Jal Landfarm

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2022 Annual Report

[4323] Chevron Environmental Management Company

July 2023

ARCADIS

Chevron Environmental Management Company

2022 Annual Report

Jal Landfarm (NM-02-0012)

Centralized Surface Waste Management Facility

Lea County, New Mexico

July 2023

2022 Annual Report

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

July 2023

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Acronyms and Abbreviations

amsl	above mean sea level
Arcadis	Arcadis U.S., Inc.
Background SAP	Landfarm Background Sampling and Analysis Plan
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
PQL	practical quantitation limit
SAP	Draft Landfarm Operations, Sampling and Analysis Plan
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
Transitional Provisions	provision 19.15.36.20 of New Mexico Administrative Code 19.15.36 (Part 36)
USEPA	United States Environmental Protection Agency
WQCC	Water Quality Control Commission

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1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) prepared this 2022 Annual Report for the Jal Landfarm (NM-02-0012), a centralized surface waste management facility 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 On February 14, 2007, Rule 711 was repealed and replaced by 19.15.36 New Mexico Administrative Code (NMAC; February 14, 2007, as amended through June 30, 2016), commonly referred to as Part 36.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 requirements of provision 19.15.36.20 of Part 36 (Transitional Provisions). In 2022, the Site was operated in accordance with the requirements specified in permit NM-02-0012 and Part 36.

1.1 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 2022, field activities were performed at the Site to meet the following objectives:

- Maintain berms around each active landfarm cell (cell) to prevent rainwater run-on and run-off
- Perform weekly or monthly site inspections to assess site conditions. On August 31, 2022, the NMOCD approved a minor permit modification request to reduce the frequency of site inspections from weekly to monthly (NMOCD 2022c)
- Remove standing water from active cells within 24 hours of discovery
- 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
- Perform 5-year vadose zone monitoring
- Maintain records of the site remediation activities and monitoring reports

This 2022 Annual Report summarizes the 2022 field activities performed at the Site and the associated monitoring results.

1.2 Site Description and Background

The Site is located approximately 4.5 miles northwest of Jal, New Mexico (west 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

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to 21 feet thick, forms a hard, erosion-resistant pedogenic calcrete approximately 4 feet below ground surface (bgs). Caliche has been observed as shallow at 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 ¼ of southeast ¼, 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 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.

On August 14, 2020, the NMOCD approved the Background Sampling and Analysis Plan (Background SAP; Arcadis 2020a), which presents the sampling and analysis plan for establishing site background soil concentrations in accordance with provision 19.15.26.15(B) NMAC. Background sampling was performed in March 2021 and a Background Sampling Report was submitted to the NMOCD on November 21, 2021 (Arcadis 2021); the NMOCD approved the Background Sampling Report on May 27, 2022 (NMOCD 2022b).

On December 24, 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, on August 31, 2022, the NMOCD approved a minor permit modification request to reduce site inspections from weekly to monthly (NMOCD 2022c).

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2 2022 Operation and Maintenance Activities

Operation and maintenance activities performed at the Site in 2022 consisted of weekly or monthly site inspections. These activities are consistent with those required by permit NM-02-0012 and Part 36.

Weekly inspections were performed at the Site from January 2022 through August 2022. On August 31, 2022, the NMOCD approved a minor permit modification request to reduce site inspections from weekly to monthly (NMOCD 2022c). Upon approval of the minor permit modification, monthly inspections were performed from September 2022 through December 2022.

These inspections were completed to assess conditions and verify the integrity of the following site features and equipment:

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

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

3 2022 Monitoring Activities

Monitoring activities performed at the Site in 2022 consisted of the following soil sampling events:

- *Release response sampling event* (January 2022)
- *First semiannual 2022 sampling event*. Vadose zone sampling (June 2022), treatment zone sampling (June 2022), and release response sampling (July 2022)
- *Second semiannual 2022 sampling event*. Vadose zone sampling (December 2022) and treatment zone sampling (December 2022)
- *5-year vadose zone sampling event* (December 2022)

The vadose zone, treatment zone, release response, and 5-year vadose zone sampling events, including sampling methods and associated laboratory methods, are described in the following subsections and summarized 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 2022 Soil Sampling Events

Task	Vadose Zone Sampling	Treatment Zone Sampling	Release Response Sampling	5-Year Sampling Event
Sampling frequency	Semiannual	Semiannual	Semiannual (if a potential release is identified)	Once
Number of samples collected	4 discrete samples per active cell	1 composite sample (consisting of 4 discrete samples) per active cell	4 discrete vadose zone samples per active cell (only in those active cells where a potential release is identified)	4 discrete vadose zone samples per developed cell (Cells 1 through 26)
Sample depth	3 to 4 feet below native ground surface	0 to 6 inches below ground surface	3 to 4 feet below native ground surface	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	WQCC metals from Subsections A and B of 20.6.2.3103 NMAC

Notes:
BTEX = benzene, toluene, ethylbenzene, and xylenes
TPH = total petroleum hydrocarbons
WQCC = Water Quality Control Commission

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3.1 Vadose Zone Sampling

Semiannual vadose zone sampling was performed in June and December 2022. 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.

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 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 located in Stafford, Texas for laboratory analysis. The discrete sample locations were recorded with a Trimble handheld global positioning system (GPS) 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 an Alconox® solution and 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 and Method 8015D (GRO only in December 2022). TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Method 8260C
- Chloride by USEPA Method 300.0. Chloride was inadvertently not analysed during the December 2022 vadose zone sampling event. Chloride will be analysed during the first semi-annual 2023 sampling event.

3.2 Treatment Zone Sampling

Semiannual treatment zone sampling was performed in June and December 2022. 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.

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 located in Stafford, Texas, for laboratory 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:

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- TPH as DRO, GRO, and ORO by USEPA Method 8015B and and Method 8015D (GRO only in December 2022). TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- Chloride by USEPA Method 300.0.

3.3 Release Response Sampling

Release response sampling was initiated in response to potential releases of TPH, BTEX, and/or chloride into the vadose zone of active cells (Cells 17, 18, 19, 20, 21, 25, and 26). According to provision 19.15.36.E(5) NMAC, a release is defined as “concentrations of TPH, BTEX, or chlorides [that] exceed the higher of the practical quantitation limit (PQL) or the background soil concentrations”. A background sample was collected on June 24, 1998, and subsequent background sampling was conducted on March 25 and June 25, 2009. The analytical results from the 1998 background soil sample, presented in Table 2 below, are considered background soil concentrations and were used to determine whether a release had occurred during the December 2021 vadose zone sampling event. The 1998 sample was analyzed for TPH (GRO fraction), major cations and anions, BTEX, and heavy metals (Texaco Exploration & Production, Inc. 1998). Representative background soil concentrations in 1998 were not established for DRO and ORO fractions; therefore, detections of DRO or GRO above the sample detection limit (SDL) indicated that a release had occurred.

To establish background conditions in accordance with Part 36 requirements, additional background sampling and analysis was performed at the Site in March 2021 in accordance with the approved Background Sampling and Analysis Plan (Arcadis 2020a). The background values presented in the Background Sampling Report (Arcadis 2021) were approved on May 27, 2022 (NMOCD 2022b); therefore, vadose zone soil analytical results collected during the June 2022 and December 2022 vadose zone sampling events were compared to the 2022 background soil concentrations to determine whether a release had occurred. For future vadose zone sampling events, the 1998 background soil concentrations are superseded by the 2022 background soil concentrations presented in the Background Sampling Report (Arcadis 2021).

Table 2. 1998 Background Soil Concentrations

TPH and BTEX	Concentration (mg/kg)	Cations/Anions	Concentration (mg/kg)	Total Metals	Concentration (mg/kg)
TPH (GRO)	< 5.00	Potassium	39.0	Arsenic	< 5.0
Benzene	< 0.05	Magnesium	49.0	Selenium	< 5.0
Toluene	< 0.05	Calcium	800.0	Cadmium	< 2.0
Ethylbenzene	< 0.05	Sodium	5.1	Chromium	6.1
Xylene	< 0.05	Fluoride	1.7	Lead	< 5.0
		Chloride	10.0	Silver	< 5.0
		Nitrate	2.2	Barium	45.0
		Sulfate	15.0	Mercury	< 0.25
		Bicarbonate	3,500		
		Carbonate	80.0		

Note:
mg/kg = milligram(s) per kilogram

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 December 2021 vadose zone sampling event showed that the DRO concentration in Cell 21 was detected above the SDL and chloride concentrations in Cells 17, 18, 19, 20, and 25 were detected at concentrations greater than the 1998 background soil concentration (see the 2021 Annual Report [Arcadis 2022a]); therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances, and the release response sampling event was performed in January 2022. Four randomly selected discrete soil samples were collected from the vadose zone of Cells 17, 18, 19, 20, 21, and 25 where the potential release was identified, as shown on Figure 4. Samples were collected using the same field methodology described in Section 3.1.

Results of the June 2022 vadose zone sampling event showed that the toluene concentration in Cell 21 and the chloride concentration in Cell 20 were detected above the 2022 background soil concentrations; therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances, and the release response sampling event was performed in July 2022. On April 20, 2022, Arcadis received clarification from the NMOCD that the individual detected releases from the routine vadose zone monitoring should be assessed during the release response sampling event; this would require that the four randomly selected, independent samples required of provision 19.15.36.15.E(5) NMAC be randomly located around the sample location(s) of the initial detection within each landfarm cell that prompted the release response sampling (NMOCD 2022a). Arcadis implemented this approach during the July 2022 release response sampling event. Four randomly selected, discrete vadose zone soil samples were collected around each sample location with an initial detection. A total of eight discrete samples were collected (four from Cell 20 and four from Cell 21), as shown on Figure 2. Samples were collected using the same field methodology described in Section 3.1

The January 2022 and July 2022 release response soil samples were analyzed for the following constituents:

- TPH as DRO, GRO, and ORO by USEPA Method 8015B. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
- BTEX by USEPA Methods 8260B (January 2022) and 8260C (July 2022).
- Chloride by USEPA Method 9056A.
- Constituents listed in Subsections A and B of 20.6.2.3103 NMAC

3.4 Five-Year Vadose Zone Sampling

In accordance with provision 19.15.36.15.E(3) NMAC, 5-year vadose zone sampling was performed in December 2022. Four randomly selected discrete soil samples were collected from the vadose zone of each developed cell (Cells 1 to 26). Samples were collected using the same field methodology as described in Section 3.1. The sample locations are shown on Figure 5.

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Soil samples were analyzed for WQCC metals listed in Subsections A and B of 20.6.2.3103 NMAC by USEPA Method 6020B. Mercury was analyzed by USEPA Method 7471A.

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4 2022 Monitoring Results

This section discusses the results of the 2022 vadose zone, treatment zone, release response, and 5-year vadose zone soil sampling events.

4.1 Vadose Zone Sampling Results

Analytical results from the semiannual vadose zone sampling events are provided in Tables 3 and 4. Laboratory reports are provided in Appendix A. Several of the December 2022 samples had to be diluted due to sample matrix interference; therefore, the SDLs were elevated.

As discussed in Section 3.3 and specified in provision 19.15.36.15.E(5) NMAC, vadose zone analytical results collected in June 2022 and December 2022 were compared to the 2022 background soil concentrations. The 2022 results are summarized below.

- TPH: In June 2022 and December 2022, GRO, DRO, and ORO concentrations were not detected at the SDL.
- BTEX. In June 2022, toluene was detected at a concentration greater than the background soil concentrations in Cell 21 (0.00116 J mg/kg). In December 2022, BTEX concentrations were not detected at the SDL.
- Chloride. In June 2022, chloride was detected at a concentration greater than the background soil concentrations in Cell 20 (71.3 mg/kg). In December 2022, chloride was inadvertently not analyzed.

4.2 Treatment Zone Sampling Results

Analytical results from the semiannual treatment zone sampling events are provided in Tables 5 and 6. Laboratory reports are provided in Appendix A. In December 2022, the samples for GRO analysis by USEPA Method 8015D had to be diluted due to the nature of the sample matrix; therefore, the SDLs were elevated.

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 specified in Table 7, below.

During the June 2022 and December 2022 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 7. Treatment Zone Closure Performance Standards

Constituent	Treatment Zone Closure Performance Standard
GRO + DRO	500 mg/kg
TPH	2,500 mg/kg
Benzene	0.2 mg/kg
Total BTEX	50 mg/kg
Chloride	1,000 mg/kg

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4.3 Release Response Sampling Results

Analytical results from the January 2022 and July 2022 release response sampling events are provided in Tables 8 through 15 and Tables 16 through 23, 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 2022 background soil concentrations or SDL. A summary of January 2022 and July 2022 detected constituents that exceeded the 2022 background soil concentrations or SDL is provided in Table 24, below.

Potential releases of petroleum-related impacts into the vadose zone of the Site will be addressed in accordance with provision 19.15.29 NMAC (Part 29)

Arcadis (on behalf of CEMC) submitted a January 2022 Release Response Sampling Results and Action Plan (January 2022 Action Plan) to the NMOCD on September 1, 2022 (Arcadis 2022b). The report summarizes the December 2021 vadose zone and January 2022 release response sampling events and associated results and provides a release response action plan to address the potential release of petroleum-related impacts in the vadose zone of the Site. On October 28, 2022, the NMOCD provided comments to the January 2022 Action Plan (Arcadis 2022b) regarding several constituents that were analyzed with MDLs greater than the established background soil concentrations (NMOCD 2022d). The NMOCD, CEMC, and Arcadis have had ongoing discussions about how to resolve this issue. The revised January 2022 Action Plan (Arcadis 2022b) and the July 2022 Release Response Sampling Results and Action Plan will be submitted to the NMOCD once a path forward has been determined.

Table 24. Summary of Detected Constituents That Exceeded the 2022 Background Soil Concentrations or SDL

Cell	Metals	VOCs	Other Constituents	Radium
Cell 17	Arsenic	Styrene	Chloride, nitrate, TDS, perchlorate	Combined Radmium-226 + 228, Radium-226
Cell 18	None	None	Nitrate	Combined Radmium-226 + 228, Radium-226
Cell 19	None	None	Nitrate, sulfate, perchlorate	Combined Radmium-226 + 228, Radium-226
Cell 20	Antimony, manganese, zinc	None	Nitrate, nitrite, sulfate, TDS	Combined Radmium-226 + 228, Radium-226
Cell 21	Barium, zinc	Total xylenes	Nitrate, sulfate	Combined Radmium-226 + 228, Radium-226
Cell 25	Antimony, beryllium, chromium, copper, iron, zinc	None	Nitrate, TDS	None

4.4 Five-Year Vadose Zone Sampling Results

Analytical results from the 5-year vadose sampling event are provided in Table 25. Laboratory reports are provided in Appendix A.

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In accordance with provision 19.15.36.15.E(3) NMAC, analytical results were compared to the greater of the 2022 background soil concentrations or SDL. A summary of detected constituents that exceeded the 2022 background soil concentrations or SDL is provided in Table 26, below.

Potential releases of petroleum-related impacts into the vadose zone of the Site will be addressed in accordance with provision 19.15.29 NMAC (Part 29).

Table 26. Summary of 5-Year Vadose Zone Analytical Results That Exceeded the 2022 Background Soil Concentrations or SDL

Cell	Constituent
Cell 2	Barium, cadmium
Cell 3	Cadmium, selenium
Cell 4	Cadmium
Cell 6	Zinc
Cell 7	Cadmium, chromium, copper, manganese, selenium, zinc
Cell 8	Chromium
Cell 9	Copper
Cell 10	Copper
Cell 11	Cadmium, copper, manganese, selenium, zinc
Cell 12	Cadmium
Cell 13	Arsenic
Cell 14	Copper, manganese
Cell 16	Cadmium
Cell 17	Selenium
Cell 18	Chromium, copper, iron, manganese, selenium, zinc
Cell 19	Arsenic, barium, cadmium, uranium, zinc
Cell 20	Arsenic
Cell 21	Selenium
Cell 22	Barium
Cell 23	Arsenic, copper
Cell 24	Cadmium
Cell 25	Chromium, selenium, zinc
Cell 26	Copper, manganese, zinc

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5 Summary

Field activities performed in 2022 were conducted in accordance with the requirements of permit NM-02-0012 and Part 36. Field activities consisted of weekly or monthly site inspections, semiannual vadose zone and treatment zone monitoring, release response sampling, and 5-year vadose zone monitoring. On August 31, 2022, the NMOCD approved a minor permit modification request to reduce site inspections from weekly to monthly (NMOCD 2022c).

Semiannual vadose zone sampling was performed in June and December 2022. The June 2022 vadose zone analytical results indicated a potential release of toluene and chloride into the vadose zone of active Cells 21 and 20, respectively; therefore, a release response sampling event was subsequently performed in July 2022. During the December 2022 vadose zone sampling event, detected results were below the 2022 background soil concentrations.

In addition to the July 2022 release response sampling event, release response sampling was performed in January 2022 in response to a potential release of DRO and/or chloride into the vadose zone of active Cells 17, 18, 19, 20, and 25 during the December 2021 semiannual vadose zone sampling event.

Semiannual treatment zone sampling was performed in June and December 2022. Treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride.

A 5-year vadose zone sampling event was performed in December 2022, which involved sampling each developed cell (Cells 1 through 26) for WQCC metals. In most cells, one or more constituents exceeded the 2022 background soil concentrations or SDL, including arsenic, barium, cadmium, chromium, copper, iron, manganese, selenium, uranium, and zinc.

Potential releases of petroleum-related impacts into the vadose zone of the Site will be addressed in accordance with provision 19.15.29 NMAC (Part 29).

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6 References

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Tables

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Table 3
June 2022 Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	8015B		8015B		8015B		8015B		8260C		8260C		8260C		8260C		300.0	
		Units	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	Cell17-114-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000209	U	0.00101	U	0.000338	U	0.000993	U	4.72	J
Cell 17	Vadose	Cell17-154-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000209	U	0.00101	U	0.000338	U	0.000993	U	4.46	J
Cell 17	Vadose	Cell17-178-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000208	U	0.00101	U	0.000338	U	0.000991	U	4.7	J
Cell 17	Vadose	Cell17-59-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U	0.000207	U	0.001	U	0.000336	U	0.000985	U	6.0	J
Cell 18	Vadose	Cell18-198-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000207	U	0.000998	U	0.000335	U	0.000983	U	5.23	J
Cell 18	Vadose	Cell18-36-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000209	U	0.00101	U	0.000338	U	0.000993	U	4.5	J
Cell 19	Vadose	Cell19-115-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000208	U	0.00101	U	0.000338	U	0.000991	U	6.33	J
Cell 19	Vadose	Cell19-149-S-3-4-220607	6/7/2022	21.3	U	21.3	U	21.3	U	63.9	U	0.000208	U	0.00101	U	0.000338	U	0.000991	U	4.47	J
Cell 19	Vadose	Cell19-203-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U	0.000207	U	0.001	U	0.000336	U	0.000985	U	5.06	J
Cell 19	Vadose	Cell19-96-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000212	U	0.00102	U	0.000343	U	0.00101	U	3.75	J
Cell 20	Vadose	Cell20-111-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000207	U	0.000998	U	0.000335	U	0.000983	U	15.2	--
Cell 20	Vadose	Cell20-176-S-3-4-220607	6/7/2022	21.0	U	21.0	U	21.0	U	63.0	U	0.000206	U	0.000996	U	0.000334	U	0.000981	U	4.26	J
Cell 20	Vadose	Cell20-59-S-3-4-220607	6/7/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000206	U	0.000996	U	0.000334	U	0.000981	U	71.3	--
Cell 20	Vadose	Cell20-71-S-3-4-220607	6/7/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000209	U	0.00101	U	0.000339	U	0.000995	U	36.2	--
Cell 21	Vadose	Cell21-156-S-3-4-220606	6/6/2022	21.0	U	21.0	U	21.0	U	63.0	U	0.000209	U	0.00101	U	0.000339	U	0.000995	U	3.64	J
Cell 21	Vadose	Cell21-41-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000208	U	0.00116 J	J	0.000337	U	0.000989	U	11.0	--
Cell 21	Vadose	Cell21-46-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000205	U	0.000992	U	0.000333	U	0.000977	U	6.65	J
Cell 21	Vadose	Cell21-94-S-3-4-220606	6/6/2022	21.0	U	21.0	U	21.0	U	63.0	U	0.000206	U	0.000994	U	0.000334	U	0.000979	U	4.13	J
Cell 25	Vadose	Cell25-108-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000208	U	0.00101	U	0.000338	U	0.000991	U	3.86	J
Cell 25	Vadose	Cell25-188-S-3-4-220606	6/6/2022	21.4	U	21.4	U	21.4	U	64.2	U	0.000209	U	0.00101	U	0.000338	U	0.000993	U	20.5	--
Cell 25	Vadose	Cell25-26-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000209	U	0.00101	U	0.000339	U	0.000995	U	6.73	J
Cell 25	Vadose	Cell25-83-S-3-4-220606	6/6/2022	21.2	U	21.2	U	21.2	U	63.6	U	0.000206	U	0.000994	U	0.000334	U	0.000979	U	14.2	--
Cell 26	Vadose	Cell26-111-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000208	U	0.00100	U	0.000337	U	0.000989	U	4.25	J
Cell 26	Vadose	Cell26-80-S-3-4-220606	6/6/2022	21.1	U	21.1	U	21.1	U	63.3	U	0.000209	U	0.00101	U	0.000338	U	0.000993	U	10.8	--

Notes:

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

1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:

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. 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
December 2022 Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	8015B		8015D		8015B		8015B		8260C		8260C		8260C		8260C		300.0	
		Units	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	Cell17-6-S-3-4-221206	12/6/2022	34.4	U	2.49	U	34.4	U	71.3	--	0.000736	U	0.00192	U	0.000668	U	0.000904	U	--	--
Cell 17	Vadose	Cell17-45-S-3-4-221206	12/6/2022	35.4	U	2.48	U	35.4	U	73.3	--	0.000734	U	0.00192	U	0.000666	U	0.000902	U	--	--
Cell 17	Vadose	Cell17-199-S-3-4-221206	12/6/2022	33.9	U	2.51	U	33.9	U	70.3	--	0.000726	U	0.00189	U	0.000658	U	0.000891	U	--	--
Cell 17	Vadose	Cell17-203-S-3-4-221206	12/6/2022	36.2	U	2.49	U	36.2	U	74.9	--	0.000730	U	0.00190	U	0.000662	U	0.000896	U	--	--
Cell 18	Vadose	Cell18-83-S-3-4-221206	12/6/2022	34.1	U	2.52	U	34.1	U	70.7	--	0.000730	U	0.00190	U	0.000662	U	0.000896	U	--	--
Cell 18	Vadose	Cell18-92-S-3-4-221206	12/6/2022	33.0	U	2.49	U	33.0	U	68.5	--	0.000736	U	0.00192	U	0.000668	U	0.000904	U	--	--
Cell 18	Vadose	Cell18-133-S-3-4-221206	12/6/2022	34.4	U	2.50	U	34.4	U	71.3	--	0.000740	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 18	Vadose	Cell18-181-S-3-4-221206	12/6/2022	35.7	U	2.50	U	35.7	U	73.9	--	0.000730	U	0.00190	U	0.000662	U	0.000896	U	--	--
Cell 19	Vadose	Cell19-82-S-3-4-221205	12/5/2022	33.4	U	2.49	U	33.4	U	69.3	--	0.000729	U	0.00190	U	0.000661	U	0.000895	U	--	--
Cell 19	Vadose	Cell19-84-S-3-4-221205	12/5/2022	33.6	U	2.50	U	33.6	U	69.7	--	0.000733	U	0.00191	U	0.000665	U	0.000900	U	--	--
Cell 19	Vadose	Cell19-93-S-3-4-221205	12/5/2022	35.2	U	2.5	U	35.2	U	72.9	--	0.000729	U	0.0019	U	0.000661	U	0.000895	U	--	--
Cell 19	Vadose	Cell19-204-S-3-4-221205	12/5/2022	36.1	U	2.51	U	36.1	U	74.7	--	0.000734	U	0.00192	U	0.000666	U	0.000902	U	--	--
Cell 20	Vadose	Cell20-102-S-3-4-221205	12/5/2022	34.1	U	2.53	U	34.1	U	70.7	--	0.000740	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 20	Vadose	Cell20-179-S-3-4-221205	12/5/2022	34.7	U	2.50	U	34.7	U	71.9	--	0.000733	U	0.00191	U	0.000665	U	0.000900	U	--	--
Cell 20	Vadose	Cell20-187-S-3-4-221205	12/5/2022	35.4	U	2.49	U	35.4	U	73.3	--	0.000994	U	0.00190	U	0.000661	U	0.000895	U	--	--
Cell 20	Vadose	Cell20-204-S-3-4-221205	12/5/2022	34.2	U	2.51	U	34.2	U	70.9	--	0.000734	U	0.00192	U	0.000666	U	0.000902	U	--	--
Cell 21	Vadose	Cell21-155-S-3-4-221206	12/6/2022	35.6	U	2.52	U	35.6	U	73.7	--	0.000740	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 21	Vadose	Cell21-47-S-3-4-221206	12/6/2022	34.5	U	2.52	U	34.5	U	71.5	--	0.000739	U	0.00193	U	0.000670	U	0.000907	U	--	--
Cell 21	Vadose	Cell21-61-S-3-4-221206	12/6/2022	34.7	U	2.52	U	34.7	U	71.9	--	0.000732	U	0.00191	U	0.000664	U	0.000898	U	--	--
Cell 21	Vadose	Cell21-76-S-3-4-221206	12/6/2022	35.8	U	2.52	U	35.8	U	74.1	--	0.000726	U	0.00189	U	0.0000658	U	0.000891	U	--	--
Cell 25	Vadose	Cell25-88-S-3-4-221206	12/6/2022	34.6	U	2.50	U	34.6	U	71.7	--	0.000729	U	0.00190	U	0.000661	U	0.000895	U	--	--
Cell 25	Vadose	Cell25-114-S-3-4-221207	12/7/2022	39.1	U	2.48	U	39.1	U	80.7	--	0.000726	U	0.00189	U	0.000658	U	0.000891	U	--	--
Cell 25	Vadose	Cell25-179-S-3-4-221207	12/7/2022	39.2	U	2.49	U	39.2	U	80.9	--	0.00074	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 25	Vadose	Cell25-187-S-3-4-221207	12/7/2022	38.3	U	2.49	U	38.3	U	79.1	--	0.000729	U	0.00190	U	0.000661	U	0.000895	U	--	--
Cell 26	Vadose	Cell26-79-S-3-4-221207	12/7/2022	38.6	U	2.50	U	38.6	U	79.7	--	0.00074	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 26	Vadose	Cell26-115-S-3-4-221207	12/7/2022	36.9	U	2.51	U	36.9	U	76.3	--	0.00074	U	0.00193	U	0.000672	U	0.000909	U	--	--
Cell 26	Vadose	Cell26-129-S-3-4-221207	12/7/2022	36.1	U	2.52	U	36.1	U	74.7	--	0.000737	U	0.00192	U	0.000669	U	0.000905	U	--	--
Cell 26	Vadose	Cell26-198-S-3-4-221207	12/7/2022	39.1	U	2.50	U	39.1	U	80.7	--	0.000729	U	0.0019	U	0.000661	U	0.000895	U	--	--

Notes:

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

1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).
4. Chloride was inadvertently not analyzed in December 2022.

-- = not applicable or available
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:

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. 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 5
June 2022 Treatment Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Chloride	
		Method	8015B		8015B		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-6-220609	06/09/2022	22.6	U	22.6	U	22.6	U	45.2	--	84.6	--
Cell 18	Treatment	Cell 18-treatment-S-6-220609	06/09/2022	22.4	U	22.4	U	22.4	U	67.2	--	3.89	J
Cell 19	Treatment	Cell 19-treatment-S-6-220609	06/09/2022	31.2	J	22.6	U	22.6	U	31.2	--	20.80	--
Cell 20	Treatment	Cell 20-treatment-S-6-220609	06/09/2022	23.3	U	23.3	U	23.3	U	69.9	--	6.78	J
Cell 21	Treatment	Cell 21-treatment-S-6-220608	06/08/2022	89.1	--	22.3	U	22.3	U	89.1	--	7.52	J
Cell 25	Treatment	Cell 25-treatment-S-6-220608	06/08/2022	22.2	U	22.2	U	22.2	U	66.6	--	10.2	J
Cell 26	Treatment	Cell 26-treatment-S-6-220608	06/08/2022	22.5	U	22.5	U	22.5	U	67.5	--	8.58	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(F) NMAC, treatment zone analytical results are compared to the treatment zone closure performance standards.

Acronyms and Abbreviations:

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

Qualifiers:

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

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Table 6
December 2022 Treatment Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm 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	Cell17-Treatment-5-6-221215	12/15/2022	37.8	J	2.51	U	38.1	J	78.4	--	124	--
Cell 18	Treatment	Cell18-Treatment-5-6-221215	12/15/2022	57.4	--	2.51	U	82.4	--	142	--	80.8	--
Cell 19	Treatment	Cell19-Treatment-5-6-221215	12/15/2022	37.2	J	2.53	U	34.9	U	74.6	--	39.6	--
Cell 20	Treatment	Cell20-Treatment-5-6-221215	12/15/2022	35.1	U	2.48	U	35.1	U	72.7	--	68.7	--
Cell 21	Treatment	Cell21-Treatment-5-6-221215	12/15/2022	78.0	--	2.53	U	80.7	--	161	--	89.0	--
Cell 25	Treatment	Cell25-Treatment-5-6-221215	12/15/2022	50.4	--	2.52	U	50.6	--	104	--	70.0	--
Cell 26	Treatment	Cell26-Treatment-5-6-221215	12/15/2022	385	--	2.48	U	379	--	766	--	81.7	--

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.

Acronyms and Abbreviations:

-- = not applicable

DRO = diesel range organics

GRO = gasoline range organics

ID = identification

mg/kg = milligrams per kilogram

MQL = method quantitation limit

NMAC = New Mexico Administrative Code

ORO = oil range organics

RL = reporting limit

TPH = total petroleum hydrocarbon

Qualifiers:

J = Result is less than the MQL but greater than or equal to the RL and the concentration is an estimated value.

U = Analyte was not detected at or above the RL.

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Table 8
January 2022 Release Response Soil Analytical Results: TPH, BTEX, and Chloride
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B		9056A	
		Units	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-Square 26-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000619	U	0.000884	U	0.000442	U	0.000491	U	666	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	20.8	U	20.8	U	20.8	U	62.4	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	13.4	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000569	U	0.000812	U	0.000406	U	0.000451	U	3.59	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000570	U	0.000814	U	0.000407	U	0.000452	U	93.7	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	20.8	U	20.8	U	20.8	U	62.4	--	0.000532	U	0.000760	U	0.000380	U	0.000422	U	3.48	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000531	U	0.000759	U	0.000379	U	0.000422	U	24.0	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000573	U	0.000818	U	0.000409	U	0.000455	U	5.29	J
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000621	U	0.000888	U	0.000444	U	0.000493	U	7.37	J
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000615	U	0.000879	U	0.000439	U	0.000488	U	16.9	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000571	U	0.000815	U	0.000408	U	0.000453	U	8.54	J
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	21.2	U	21.2	U	21.2	U	63.6	--	0.000587	U	0.000838	U	0.000419	U	0.000466	U	8.62	J
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000529	U	0.000756	U	0.000378	U	0.000420	U	10.4	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000588	U	0.000840	U	0.000420	U	0.000466	U	4.36	J
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	20.9	U	20.9	U	20.9	U	62.7	--	0.000586	U	0.000836	U	0.000418	U	0.000465	U	15.8	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000554	U	0.000791	U	0.000395	U	0.000439	U	7.81	J
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.50	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.60	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000614	U	0.000877	U	0.000439	U	0.000487	U	3.56	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000618	U	0.000882	U	0.000441	U	0.000490	U	3.53	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	25.5	J	21.0	U	21.0	U	67.5	--	0.000531	U	0.000759	U	0.000379	U	0.00200	J	3.56	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000575	U	0.000821	U	0.000411	U	0.000456	U	4.80	J
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	21.0	U	21.0	U	21.0	U	63.0	--	0.000624	U	0.000891	U	0.000446	U	0.000495	U	3.58	J
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000583	U	0.000833	U	0.000417	U	0.000463	U	3.57	J
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	21.1	U	21.1	U	21.1	U	63.3	--	0.000563	U	0.000804	U	0.000402	U	0.000446	U	3.48	U

Notes:
[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that non-detect values are included in the summation at the SDL).
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:
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:
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Table 9
January 2022 Release Response Soil Analytical Results: Metal
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead	
		Method		6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A	
		Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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-Square 26-S-3-4-220124	1/24/2022	0.147	J	4.39	--	385	--	0.171	U	0.107	U	3.51	J	1.52	J	3,100	--	1.86	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.131	J	3.26	J	153	--	0.189	J	0.109	U	4.08	--	1.69	J	3,710	--	2.44	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.106	U	3.55	J	167	--	0.165	U	0.104	U	2.61	J	1.38	J	2,330	--	1.48	J
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.175	J	2.53	J	242	--	0.192	J	0.109	U	4.64	--	1.76	J	4,190	--	2.59	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.108	U	2.66	J	171	--	0.168	U	0.105	U	1.88	J	0.835	J	1,600	--	0.990	J
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.142	J	3.43	J	216	--	0.178	U	0.112	U	2.80	J	1.58	J	2,420	--	1.41	J
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.127	J	2.60	J	398	--	0.168	U	0.105	U	2.04	J	1.01	J	1,510	--	0.881	J
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.140	J	1.82	J	232	--	0.165	U	0.104	U	2.08	J	0.986	J	1,710	--	1.15	J
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.188	J	3.43	J	331	--	0.190	J	0.112	U	4.11	--	1.55	J	3,490	--	1.90	J
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.158	J	2.09	J	169	--	0.162	U	0.102	U	1.81	J	1.11	J	1,400	--	0.883	J
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.213	J	1.74	J	154	--	0.160	U	0.100	U	2.83	J	1.82	J	2,390	--	1.50	J
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.118	J	3.90	--	287	--	0.162	U	0.102	U	1.72	J	1.13	J	1,350	--	0.829	J
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.104	U	2.83	J	242	--	0.162	U	0.102	U	1.81	J	1.35	J	1,370	--	0.865	J
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	2.38	--	2.34	J	138	--	0.195	J	0.104	U	4.80	--	2.13	J	3,370	--	2.09	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.112	U	2.24	J	337	--	0.175	U	0.109	U	3.40	J	1.42	J	2,620	--	1.62	J
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.108	J	1.61	J	37.6	--	0.160	U	0.100	U	2.79	J	1.42	J	3,350	--	2.31	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.127	J	2.43	J	260	--	0.162	U	0.102	U	2.93	J	1.19	J	2,460	--	1.41	J
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.182	J	2.88	J	273	--	0.178	J	0.0967	U	2.67	J	1.49	J	2,390	--	1.64	J
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.158	J	2.85	J	143	--	0.175	U	0.109	U	2.20	J	1.23	J	1,530	--	1.04	J
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.120	J	2.06	J	201	--	0.202	J	0.107	U	4.69	--	1.93	J	3,560	--	2.39	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.493	J	2.93	J	46.5	--	0.467	J	0.104	U	10.3	--	2.66	J	8,850	--	4.86	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.282	J	1.91	J	22.3	--	0.328	J	0.102	U	6.52	--	1.83	J	5,590	--	3.42	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	2.71	--	2.96	J	41.5	--	0.551	J	0.105	U	10.6	--	2.90	J	8,950	--	4.80	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.842	J	2.01	J	139	--	0.179	J	0.105	U	4.52	--	1.72	J	3,280	--	1.77	J

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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
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Table 9
January 2022 Release Response Soil Analytical Results: Metal
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Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent		Manganese		Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
		Method		6020A		7471A		6020A		6020A		6020A		6020A		6020A	
		Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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-Square 26-S-3-4-220124	1/24/2022	22.4	--	0.00688	J	0.535	J	0.459	U	0.147	U	0.221	U	9.41	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	36.8	--	0.00490	J	0.324	J	0.468	U	0.150	U	0.225	U	10.6	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	17.2	--	0.00645	J	0.377	J	0.443	U	0.142	U	0.213	U	7.37	--
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	39.6	--	0.00669	J	0.374	J	0.468	U	0.150	U	0.225	U	11.5	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	16.9	--	0.00441	J	0.316	J	0.451	U	0.144	U	0.217	U	6.05	--
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	20.7	--	0.00750	J	0.446	J	0.477	U	0.153	U	0.230	U	10.4	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	18.6	--	0.00632	J	0.339	J	0.451	U	0.144	U	0.217	U	9.78	--
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	17.7	--	0.00540	J	0.295	J	0.443	U	0.142	U	0.213	U	8.37	--
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	25.6	--	0.0125	J	0.538	J	0.477	U	0.153	U	0.230	U	10.2	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	14.1	--	0.00769	J	0.401	J	0.435	U	0.139	U	0.210	U	5.97	--
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	31.4	--	0.00519	J	0.235	J	0.428	U	0.137	U	0.206	U	8.45	--
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	13.1	--	0.00755	J	0.524	J	0.435	U	0.139	U	0.210	U	6.92	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	12.9	--	0.00824	J	0.306	J	0.435	U	0.139	U	0.210	U	5.44	--
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	39.9	--	0.00580	J	0.322	J	0.443	U	0.142	U	0.213	U	10.2	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	31.3	--	0.00679	J	0.256	J	0.468	U	0.150	U	0.225	U	8.38	--
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	162	--	0.00830	J	0.127	J	0.428	U	0.137	U	0.206	U	7.17	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	23.5	--	0.00573	J	0.362	J	0.435	U	0.139	U	0.210	U	8.43	--
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	25.0	--	0.0121	J	0.398	J	0.413	U	0.132	U	0.199	U	8.00	--
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	21.6	--	0.0106	J	0.354	J	0.468	U	0.150	U	0.225	U	6.82	--
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	34.1	--	0.00582	J	0.289	J	0.459	U	0.147	U	0.221	U	14.6	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	55.8	--	0.00696	J	0.196	J	0.443	U	0.142	U	0.213	U	21.7	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	37.8	--	0.00491	J	0.129	J	0.435	U	0.139	U	0.210	U	13.5	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	55.3	--	0.00691	J	0.208	J	0.451	U	0.144	U	0.217	U	25.1	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	30.6	--	0.00608	J	0.222	J	0.451	U	0.144	U	0.217	U	9.97	--

Notes:
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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
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Table 10
January 2022 Release Response Soil Analytical Results: VOCs
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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				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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-Square 26-S-3-4-220124	1/24/2022	0.000491	U	0.000373	U	0.000491	U	0.000580	U	0.000491	U	0.000953	U	0.000246	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000451	U	0.000343	U	0.000451	U	0.000532	U	0.000451	U	0.000875	U	0.000226	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000452	U	0.000344	U	0.000452	U	0.000533	U	0.000452	U	0.000877	U	0.000226	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000422	U	0.000321	U	0.000422	U	0.000498	U	0.000422	U	0.000819	U	0.000211	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000422	U	0.000320	U	0.000422	U	0.000497	U	0.000422	U	0.000818	U	0.000211	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000455	U	0.000345	U	0.000455	U	0.000536	U	0.000455	U	0.000882	U	0.000227	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000493	U	0.000375	U	0.000493	U	0.000582	U	0.000493	U	0.000957	U	0.000247	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000488	U	0.000371	U	0.000488	U	0.000576	U	0.000488	U	0.000947	U	0.000244	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000453	U	0.000344	U	0.000453	U	0.000534	U	0.000453	U	0.000879	U	0.000226	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000466	U	0.000354	U	0.000466	U	0.000549	U	0.000466	U	0.000903	U	0.000233	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000420	U	0.000319	U	0.000420	U	0.000496	U	0.00042	U	0.000815	U	0.000210	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000466	U	0.000354	U	0.000466	U	0.000550	U	0.000466	U	0.000905	U	0.000233	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000465	U	0.000353	U	0.000465	U	0.000548	U	0.000465	U	0.000901	U	0.000232	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000439	U	0.000334	U	0.000439	U	0.000518	U	0.000439	U	0.000852	U	0.000220	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000487	U	0.000370	U	0.000487	U	0.000575	U	0.000487	U	0.000945	U	0.000244	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000490	U	0.000373	U	0.000490	U	0.000578	U	0.000490	U	0.000951	U	0.000245	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000422	U	0.000320	U	0.000422	U	0.000497	U	0.000422	U	0.000818	U	0.000211	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000456	U	0.000347	U	0.000456	U	0.000538	U	0.000456	U	0.000885	U	0.000228	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000495	U	0.000376	U	0.000495	U	0.000584	U	0.000495	U	0.000960	U	0.000248	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000463	U	0.000352	U	0.000463	U	0.000546	U	0.000463	U	0.000898	U	0.000231	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000446	U	0.000339	U	0.000446	U	0.000527	U	0.000446	U	0.000866	U	0.000223	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.
3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

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mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
VOC = volatile organic compound

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
January 2022 Release Response Soil Analytical Results: VOCs
2022 Annual Report
Jal Landfarm 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	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.000301		0.000521		0.000501		0.000321		0.000511		0.000872		0.000571	
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-Square 26-S-3-4-220124	1/24/2022	0.000295	U	0.000511	U	0.000491	U	0.000314	U	0.000501	U	0.000855	U	0.000560	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000271	U	0.000469	U	0.000451	U	0.000289	U	0.000460	U	0.000785	U	0.000514	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000271	U	0.000470	U	0.000452	U	0.000289	U	0.000461	U	0.000787	U	0.000515	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000253	U	0.000439	U	0.000422	U	0.000270	U	0.000431	U	0.000735	U	0.000481	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000253	U	0.000438	U	0.000422	U	0.000270	U	0.000430	U	0.000734	U	0.000481	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000273	U	0.000473	U	0.000455	U	0.000291	U	0.000464	U	0.000791	U	0.000518	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000296	U	0.000513	U	0.000493	U	0.000316	U	0.000503	U	0.000858	U	0.000562	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000293	U	0.000508	U	0.000488	U	0.000313	U	0.000498	U	0.000850	U	0.000557	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000272	U	0.000471	U	0.000453	U	0.000290	U	0.000462	U	0.000788	U	0.000516	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000279	U	0.000484	U	0.000466	U	0.000298	U	0.000475	U	0.000810	U	0.000531	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000252	U	0.000437	U	0.000420	U	0.000269	U	0.000429	U	0.000731	U	0.000479	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000280	U	0.000485	U	0.000466	U	0.000299	U	0.000476	U	0.000812	U	0.000532	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000279	U	0.000483	U	0.000465	U	0.000297	U	0.000474	U	0.000809	U	0.000530	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000264	U	0.000457	U	0.000439	U	0.000281	U	0.000448	U	0.000764	U	0.000501	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000292	U	0.000507	U	0.000487	U	0.000312	U	0.000497	U	0.000848	U	0.000556	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000294	U	0.000510	U	0.000490	U	0.000314	U	0.000500	U	0.000853	U	0.000559	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000253	U	0.000438	U	0.000422	U	0.000270	U	0.000430	U	0.000734	U	0.000481	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000274	U	0.000474	U	0.000456	U	0.000292	U	0.000465	U	0.000794	U	0.000520	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000297	U	0.000515	U	0.000495	U	0.000317	U	0.000505	U	0.000861	U	0.000564	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000278	U	0.000481	U	0.000463	U	0.000296	U	0.000472	U	0.000806	U	0.000528	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000268	U	0.000464	U	0.000446	U	0.000286	U	0.000455	U	0.000777	U	0.000509	U

Notes:
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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
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MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
VOC = volatile organic compound

Qualifiers:
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Table 10
January 2022 Release Response Soil Analytical Results: VOCs
2022 Annual Report
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Constituent				Methylene chloride (Dichloromethane)		Methyl-t-butyl ether		Styrene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene (Trichloroethylene)		Vinyl chloride (Chloroethene)	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.00501		0.000611		0.000301		0.000741		0.000501		0.000281		0.000601	
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-Square 26-S-3-4-220124	1/24/2022	0.00491	U	0.000599	U	0.000295	U	0.000727	U,*	0.000491	U	0.000275	U	0.000589	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U,*	0.000490	U	0.000275	U	0.000588	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.00451	U	0.000551	U	0.000271	U	0.000668	U,*	0.000451	U	0.000253	U	0.000542	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.00452	U	0.000552	U	0.000474	J	0.000669	U,*	0.000452	U	0.000253	U	0.000542	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.00422	U	0.000515	U	0.000253	U	0.000625	U,*	0.000422	U	0.000236	U	0.000507	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.00422	U	0.000514	U	0.000253	U	0.000624	U,*	0.000422	U	0.000236	U	0.000506	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.00455	U	0.000555	U	0.000273	U	0.000673	U	0.000455	U	0.000255	U	0.000545	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.00493	U	0.000602	U	0.000296	U	0.000730	U,*	0.000493	U	0.000276	U	0.000592	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.00488	U	0.000596	U	0.000293	U	0.000723	U,*	0.000488	U	0.000273	U	0.000586	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.00453	U	0.000553	U	0.000272	U	0.000670	U,*	0.000453	U	0.000254	U	0.000543	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.00466	U	0.000568	U	0.000279	U	0.000689	U,*	0.000466	U	0.000261	U	0.000559	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.00420	U	0.000513	U	0.000252	U	0.000622	U,*	0.00042	U	0.000235	U	0.000504	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.00466	U	0.000569	U	0.000280	U	0.000690	U	0.000466	U	0.000261	U	0.000560	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.00465	U	0.000567	U	0.000279	U	0.000688	U	0.000465	U	0.000260	U	0.000558	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.00439	U	0.000536	U	0.000264	U	0.000650	U	0.000439	U	0.000246	U	0.000527	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.00487	U	0.000595	U	0.000292	U	0.000721	U,*	0.000487	U	0.000273	U	0.000585	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.00490	U	0.000598	U	0.000294	U	0.000725	U,*	0.000490	U	0.000275	U	0.000588	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.00422	U	0.000514	U	0.000253	U	0.000624	U	0.000422	U	0.000236	U	0.000506	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.00456	U	0.000557	U	0.000274	U	0.000675	U,*	0.000456	U	0.000255	U	0.000547	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.00495	U	0.000604	U	0.000297	U	0.000733	U,*	0.000495	U	0.000277	U	0.000594	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.00463	U	0.000565	U	0.000278	U	0.000685	U,*	0.000463	U	0.000259	U	0.000556	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00446	U	0.000545	U	0.000268	U	0.000661	U,*	0.000446	U	0.000250	U	0.000536	U

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Constituent				Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.000511		0.00862		0.00361		0.000200		0.00110		0.00120		0.000501	
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-Square 26-S-3-4-220124	1/24/2022	0.000501	U	0.00845	U	0.00354	U	0.000196	U	0.00108	U	0.00118	U	0.000491	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000460	U	0.00776	U	0.00325	U	0.000181	U	0.000993	U	0.00108	U	0.000451	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000461	U	0.00778	U	0.00325	U	0.000181	U	0.000995	U	0.00108	U	0.000452	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000431	U	0.00726	U	0.00304	U	0.000169	U	0.000929	U	0.00101	U	0.000422	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000430	U	0.00725	U	0.00304	U	0.000169	U	0.000927	U	0.00101	U	0.000422	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000464	U	0.00782	U	0.00327	U	0.000182	U	0.00100	U	0.00109	U	0.000455	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000503	U	0.00848	U	0.00355	U	0.000197	U	0.00108	U	0.00118	U	0.000493	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000498	U	0.00840	U	0.00352	U	0.000195	U	0.00107	U	0.00117	U	0.000488	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000462	U	0.00779	U	0.00326	U	0.000181	U	0.000996	U	0.00109	U	0.000453	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000475	U	0.00801	U	0.00335	U	0.000186	U	0.00102	U	0.00112	U	0.000466	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000429	U	0.00723	U	0.00303	U	0.000168	U	0.000924	U	0.00101	U	0.00042	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000476	U	0.00802	U	0.00336	U	0.000187	U	0.00103	U	0.00112	U	0.000466	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000474	U	0.00799	U	0.00335	U	0.000186	U	0.00102	U	0.00112	U	0.000465	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000448	U	0.00756	U	0.00316	U	0.000176	U	0.000967	U	0.00105	U	0.000439	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000497	U	0.00838	U	0.00351	U	0.000195	U	0.00107	U	0.00117	U	0.000487	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000500	U	0.00843	U	0.00353	U	0.000196	U	0.00108	U	0.00118	U	0.000490	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000430	U	0.00725	U	0.00304	U	0.000169	U	0.000927	U	0.00101	U	0.000422	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000465	U	0.00785	U	0.00328	U	0.000182	U	0.00100	U	0.00109	U	0.000456	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000505	U	0.00851	U	0.00356	U	0.000198	U	0.00109	U	0.00119	U	0.000495	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000472	U	0.00796	U	0.00333	U	0.000185	U	0.00102	U	0.00111	U	0.000463	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000455	U	0.00768	U	0.00321	U	0.000179	U	0.000982	U	0.00107	U	0.000446	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.
3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
VOC = volatile organic compound

Qualifiers:
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 10
January 2022 Release Response Soil Analytical Results: VOCs
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				1,4-Dioxane		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		1,3-Dichloropropene		1,1-Dichloropropene		Dichlorodifluoromethane (Freon 12)	
Method				8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0190		0.000451		0.000521		0.000521		0.000521		0.000731	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.0187	U	0.000442	U	0.000511	U	0.000511	U	0.000511	U	0.000717	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0171	U	0.000406	U	0.000469	U	0.000469	U	0.000469	U	0.000659	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0172	U	0.000407	U	0.000470	U	0.000470	U	0.000470	U	0.000660	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0160	U	0.000380	U	0.000439	U	0.000439	U	0.000439	U	0.000617	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0160	U	0.000379	U	0.000438	U	0.000438	U	0.000438	U	0.000616	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0173	U	0.000409	U	0.000473	U	0.000473	U	0.000473	U	0.000664	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0187	U	0.000444	U	0.000513	U	0.000513	U	0.000513	U	0.000720	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0186	U	0.000439	U	0.000508	U	0.000508	U	0.000508	U	0.000713	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0172	U	0.000408	U	0.000471	U	0.000471	U	0.000471	U	0.000661	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0177	U	0.000419	U	0.000484	U	0.000484	U	0.000484	U	0.000680	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.016	U	0.000378	U	0.000437	U	0.000437	U	0.000437	U	0.000613	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0177	U	0.000420	U	0.000485	U	0.000485	U	0.000485	U	0.000681	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0177	U	0.000418	U	0.000483	U	0.000483	U	0.000483	U	0.000678	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.0167	U	0.000395	U	0.000457	U	0.000457	U	0.000457	U	0.000641	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.0185	U	0.000439	U	0.000507	U	0.000507	U	0.000507	U	0.000712	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.0186	U	0.000441	U	0.000510	U	0.000510	U	0.000510	U	0.000716	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.0160	U	0.000379	U	0.000438	U	0.000438	U	0.000438	U	0.000616	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.0173	U	0.000411	U	0.000474	U	0.000474	U	0.000474	U	0.000666	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0188	U	0.000446	U	0.000515	U	0.000515	U	0.000515	U	0.000723	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.0176	U	0.000417	U	0.000481	U	0.000481	U	0.000481	U	0.000676	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.0170	U	0.000402	U	0.000464	U	0.000464	U	0.000464	U	0.000652	U

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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
VOC = volatile organic compound

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 11
January 2022 Release Response Soil Analytical Results: SVOCs
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				1-Methyl-naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0112		0.0190		0.0103		0.0821		0.0170		0.0370		0.0200	
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-Square 26-S-3-4-220124	1/24/2022	0.0266	U	0.0450	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0140	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0267	U	0.0453	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0266	U	0.0451	U	0.0155	U	0.0147	U	0.0138	U	0.0165	U	0.0140	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0266	U	0.0450	U	0.0154	U	0.0147	U	0.0137	U	0.0164	U,*	0.0140	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.266	U	0.451	U	0.155	U	0.147	U	0.138	U	0.165	U,*	0.1400	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.261	U	0.442	U	0.152	U	0.144	U	0.135	U	0.161	U,*	0.1380	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.264	U	0.447	U	0.153	U	0.146	U	0.137	U	0.163	U,*	0.1390	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.262	U	0.443	U	0.152	U	0.145	U	0.136	U	0.162	U	0.1380	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.265	U	0.448	U	0.154	U	0.146	U	0.137	U	0.164	U	0.1390	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.260	U	0.439	U	0.151	U	0.144	U	0.134	U	0.161	U,*	0.1370	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.262	U	0.443	U	0.152	U	0.145	U	0.135	U	0.162	U	0.1380	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0266	U	0.045	U	0.0154	U	0.0147	U	0.0138	U	0.0164	U	0.0140	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.265	U	0.448	U	0.154	U	0.147	U	0.137	U	0.164	U,*	0.1400	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.267	U	0.451	U	0.155	U	0.148	U	0.138	U	0.165	U	0.1410	U

Notes:

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SDL = sample detection limit
SVOC = semi-volatile organic compound

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Table 11
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Lea County, New Mexico

Constituent				Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0200		0.0262		0.0160		0.0400		0.0270		0.0190		0.0360	
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-Square 26-S-3-4-220124	1/24/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0126	U	0.0146	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0154	U	0.0194	U	0.0166	U	0.0127	U	0.0147	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0172	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0172	U	0.0126	U	0.0153	U	0.0194	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0171	U	0.0125	U	0.0153	U	0.0193	U	0.0164	U	0.0126	U	0.0146	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0172	U	0.0126	U	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.172	U	0.125	U	0.153	U	0.193	U	0.165	U	0.127	U	0.147	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.168	U	0.123	U	0.150	U	0.189	U	0.162	U	0.124	U	0.144	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.170	U	0.124	U	0.152	U	0.191	U	0.163	U	0.125	U	0.145	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.169	U	0.123	U	0.151	U	0.190	U	0.162	U	0.124	U	0.144	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.171	U	0.125	U	0.152	U	0.192	U	0.164	U	0.126	U	0.146	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.167	U	0.122	U	0.149	U	0.188	U	0.161	U	0.123	U	0.143	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.169	U	0.123	U	0.150	U	0.190	U	0.162	U	0.124	U	0.144	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0171	U	0.0125	U	0.0153	U	0.0193	U	0.0165	U	0.0126	U	0.0146	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.171	U	0.125	U	0.152	U	0.192	U	0.164	U	0.126	U	0.146	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.172	U	0.126	U	0.153	U	0.193	U	0.165	U	0.127	U	0.147	U

Notes:

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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

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MQL = method quantitation limit
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SDL = sample detection limit
SVOC = semi-volatile organic compound

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Table 11
January 2022 Release Response Soil Analytical Results: SVOCs
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Fluorene		Indeno(1,2,3-cd)Pyrene		Naphthalene		Phenanthrene		Pyrene		Pentachlorophenol		1,2,4,5-Tetrachlorobenzene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0180		0.0220		0.0310		0.0170		0.0121		0.330		0.0490	
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-Square 26-S-3-4-220124	1/24/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0139	U	0.0135	U	0.0157	U	0.0166	U	0.0146	U	0.0122	U	0.0165	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0146	U	0.0121	U	0.0164	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0138	U	0.0134	U	0.0155	U	0.0165	U	0.0145	U	0.0121	U	0.0164	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.138	U	0.134	U	0.156	U	0.165	U	0.146	U	0.121	U	0.164	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.135	U	0.131	U	0.153	U	0.162	U	0.143	U	0.119	U	0.161	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.137	U	0.133	U	0.154	U	0.164	U	0.144	U	0.120	U	0.163	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.136	U	0.132	U	0.153	U	0.163	U	0.143	U	0.119	U	0.162	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.137	U	0.133	U	0.155	U	0.164	U	0.145	U	0.120	U	0.163	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.135	U	0.131	U	0.152	U	0.161	U	0.142	U	0.118	U	0.160	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.136	U	0.132	U	0.153	U	0.162	U	0.143	U	0.119	U	0.161	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0138	U	0.0134	U	0.0156	U	0.0165	U	0.0145	U	0.0121	U	0.0164	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.137	U	0.133	U	0.155	U	0.165	U	0.145	U	0.120	U	0.164	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.138	U	0.134	U	0.156	U	0.166	U	0.146	U	0.121	U	0.165	U

Notes:

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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

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ID = identification
mg/kg = milligrams per kilogram
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Constituent				Hexachlorobenzene		Pentachlorobenzene		2,4-Dichlorophenol		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		bis(2-chloroisopropyl) ether		bis(2-Chloroethyl) ether	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0290		0.0650		0.0100		0.0100		0.0100		0.0230		0.0166	
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-Square 26-S-3-4-220124	1/24/2022	0.0162	U	0.0158	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0175	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0177	U	0.0152	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0162	U	0.0159	U	0.0174	U	0.0191	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0161	U	0.0158	U	0.0173	U	0.0190	U	0.0157	U	0.0177	U	0.0151	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0162	U	0.0159	U	0.0174	U	0.0190	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.162	U	0.159	U	0.174	U	0.190	U	0.157	U	0.177	U	0.152	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.159	U	0.155	U	0.171	U	0.186	U	0.154	U	0.174	U	0.149	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.160	U	0.157	U	0.172	U	0.188	U	0.156	U	0.176	U	0.150	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.159	U	0.156	U	0.171	U	0.187	U	0.155	U	0.174	U	0.149	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.161	U	0.158	U	0.173	U	0.189	U	0.156	U	0.176	U	0.151	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.158	U	0.155	U	0.170	U	0.185	U	0.153	U	0.173	U	0.148	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.159	U	0.156	U	0.171	U	0.187	U	0.154	U	0.174	U	0.149	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0161	U	0.0158	U	0.0174	U	0.019	U	0.0157	U	0.0177	U	0.0151	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.161	U	0.158	U	0.173	U	0.189	U	0.156	U	0.177	U	0.151	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.162	U	0.159	U	0.174	U	0.190	U	0.157	U	0.178	U	0.152	U

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Constituent				Hexachloroethane		N-Nitrosodi-n-Butylamine		N-Nitrosodiethylamine		N-Nitrosodimethylamine		N-Nitrosodiphenylamine (Diphenylamine)		N-Nitrosopyrrolidine		4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0213		0.0967		0.0650		0.0370		0.0210		0.0640		0.330	
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-Square 26-S-3-4-220124	1/24/2022	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0140	U	0.0127	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0173	U	0.0253	U	0.022	U	0.0168	U	0.0187	U	0.0141	U	0.0127	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0172	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0172	U	0.0251	U	0.0218	U	0.0167	U	0.0185	U	0.0140	U	0.0127	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.172	U	0.252	U	0.219	U	0.167	U	0.186	U	0.141	U	0.127	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.169	U	0.247	U	0.214	U	0.164	U	0.182	U	0.138	U	0.124	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.171	U	0.250	U	0.217	U	0.166	U	0.184	U	0.139	U	0.126	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.170	U	0.248	U	0.215	U	0.164	U	0.183	U	0.138	U	0.125	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.171	U	0.250	U	0.217	U	0.166	U	0.185	U	0.140	U	0.126	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.168	U	0.246	U	0.213	U	0.163	U	0.181	U	0.137	U	0.124	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.169	U	0.247	U	0.215	U	0.164	U	0.182	U	0.138	U	0.125	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0172	U	0.0252	U	0.0218	U	0.0167	U	0.0185	U	0.014	U	0.0127	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.172	U	0.251	U	0.218	U	0.166	U	0.185	U	0.140	U	0.126	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.173	U	0.252	U	0.219	U	0.167	U	0.186	U	0.141	U	0.127	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.

3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

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ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SVOC = semi-volatile organic compound

Qualifiers:
U = Analyte was not detected at or above the SDL.
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Table 11
January 2022 Release Response Soil Analytical Results: SVOCs
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				2,4-Dinitrotoluene		2,6-Dinitrotoluene		2,4-Dinitrophenol		Nitrobenzene		bis(2-Ethylhexyl)phthalate		Di-n-butylphthalate		Diethylphthalate	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0660		0.0280		0.333		0.0220		0.0537		0.0290		0.0260	
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-Square 26-S-3-4-220124	1/24/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0128	U	0.0233	U	0.0243	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0127	U	0.0232	U	0.0242	U	0.0185	U	0.166	U	0.0160	U	0.0153	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.0160	U	0.0152	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0127	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0160	U	0.0153	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.127	U	0.232	U	0.242	U	0.185	U	1.66	U	0.160	U	0.153	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.63	U	0.157	U	0.150	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.126	U	0.230	U	0.239	U	0.183	U	1.65	U	0.159	U	0.151	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.64	U	0.157	U	0.150	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.126	U	0.231	U	0.240	U	0.183	U	1.65	U	0.159	U	0.152	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.124	U	0.226	U	0.235	U	0.180	U	1.62	U	0.156	U	0.149	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.125	U	0.228	U	0.237	U	0.181	U	1.63	U	0.157	U	0.150	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0127	U	0.0232	U	0.0241	U	0.0184	U	0.166	U	0.016	U	0.0152	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.126	U	0.231	U	0.240	U	0.184	U	1.65	U	0.159	U	0.152	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.127	U	0.233	U	0.242	U	0.185	U	1.67	U	0.160	U	0.153	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.

3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SVOC = semi-volatile organic compound

Qualifiers:
U = Analyte was not detected at or above the SDL.
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Table 11
January 2022 Release Response Soil Analytical Results: SVOCs
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Lea County, New Mexico

Constituent				Dimethyl phthalate		Benzidine		3,3'-Dichlorobenzidine		1,2-Diphenylhydrazine		Isophorone		Hexachlorobutadiene		Thiophene, tetrahydro-, 1,1-dioxide		Chlorobenzene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0230		0.990		0.0900		0.0220		0.0170		0.0100		--		0.000301	
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-Square 26-S-3-4-220124	1/24/2022	0.0158	U	0.0121	U	0.0153	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000295	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000294	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000271	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000271	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000253	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000253	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0139	U	0.334	U	0.000273	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000296	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000293	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000272	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0158	U	0.0121	U	0.0154	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000279	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000252	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0158	U	0.0120	U	0.0153	U	0.0173	U	0.0144	U	0.0138	U	0.331	U	0.000280	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	0.000279	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.158	U	0.121	U	0.154	U	0.173	U	0.145	U	0.138	U	3.32	U	0.000264	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.155	U	0.118	U	0.151	U	0.170	U	0.142	U	0.135	U	3.26	U	0.000294	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.157	U	0.120	U	0.152	U	0.172	U	0.143	U	0.137	U	3.29	U	0.000294	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.156	U	0.119	U	0.151	U	0.170	U	0.142	U	0.136	U	3.27	U	0.000292	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.157	U	0.120	U	0.153	U	0.172	U	0.144	U	0.137	U	3.30	U	0.000294	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.154	U	0.118	U	0.150	U	0.169	U	0.141	U	0.135	U	3.24	U	0.000253	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.156	U	0.119	U	0.151	U	0.170	U	0.142	U	0.136	U	3.26	U	0.000274	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0158	U	0.012	U	0.0153	U	0.0173	U	0.0145	U	0.0138	U	0.332	U	0.000297	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.158	U	0.120	U	0.153	U	0.173	U	0.144	U	0.137	U	3.31	U	0.000278	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.159	U	0.121	U	0.154	U	0.174	U	0.145	U	0.138	U	3.33	U	0.000268	U

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Table 12
January 2022 Release Response Soil Analytical Results: PCBs
2022 Annual Report
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Lea County, New Mexico

		Constituent	PCB-1016		PCB-1221		PCB-1232		PCB-1242		PCB-1248		PCB-1254		PCB-1260	
		Method	8082		8082		8082		8082		8082		8082		8082	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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-Square 26-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00261	U	0.00261	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00396	U	0.00261	U	0.00261	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U

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

Reference:
Arcadis. 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 13
January 2022 Release Response Soil Analytical Results: Other Constituents
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Nitrogen, Nitrate as N		Nitrogen, Nitrite		Sulfate (SO4)		Fluoride		pH		Percent Solids		Moisture		Total Cyanide		Phenols	
Method				SW9056A		SW9056A		SW9056A		SW9056A		SW9045		Moisture		Moisture		9012A		SW8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg	
Background Soil Concentration				3.56		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	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	11.0	--	0.456	J	33.4	--	3.01	J	8.5	HF	--	--	--	--	0.0286	U	0.0149	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	16.0	--	0.630	J	76.7	--	4.35	J	9.4	HF	--	--	--	--	0.0294	U	0.0150	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	5.31	--	0.601	J	21.4	--	2.42	J	9.4	HF	--	--	--	--	0.0297	U	0.0150	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	15.9	--	0.593	J	50.8	--	3.41	J	8.9	HF	--	--	--	--	0.0308	U	0.0149	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	4.52	--	0.0793	J,b	29.4	--	3.56	J	9.0	HF	--	--	--	--	0.0311	J	0.0150	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	21.2	--	0.117	J,b	159	--	7.90	--	9.1	HF	--	--	--	--	0.0320	J	0.0149	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	15.0	--	0.114	J,b	62.8	--	5.04	J	9.0	HF	--	--	--	--	0.0358	J	0.0150	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	11.9	--	0.135	J,b	105	--	6.38	--	9.2	HF	--	--	--	--	0.0308	U	0.0150	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	5.90	--	0.116	J,b	126	--	6.30	--	9.0	HF	--	--	--	--	0.0370	J	0.0149	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	18.5	--	0.101	J,b	243	--	6.56	--	8.6	HF	--	--	--	--	0.0308	U	0.0150	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	5.52	--	0.152	J,b	112	--	1.01	U	8.4	HF	--	--	--	--	0.0340	J	0.0149	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	12.4	--	0.0846	J,b	174	--	4.64	J	8.6	HF	--	--	--	--	0.0301	U	0.0150	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	10.4	--	0.442	J	136	--	1.72	J	9.0	HF	--	--	--	--	0.0297	U	0.0149	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	24.7	--	0.522	J	461	--	1.96	J	8.9	HF	--	--	--	--	0.0447	J	0.0150	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	10.2	--	0.427	J	373	--	5.84	--	8.6	HF	--	--	--	--	0.0313	J	0.149	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	5.01	--	0.422	J	91.5	--	2.06	J	9.0	HF	--	--	--	--	0.0302	U	0.146	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	14.1	--	0.613	J	346	--	4.25	J	8.6	HF	--	--	--	--	0.0285	U	0.148	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	11.7	--	0.492	J	150	--	4.36	J	8.6	HF	--	--	--	--	0.0297	U	0.147	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	5.71	--	0.519	J	60.8	--	6.20	--	8.9	HF	--	--	--	--	0.0299	U	0.148	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	3.93	--	0.602	J	71.1	--	6.95	--	8.9	HF	--	--	--	--	0.0464	J	0.146	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	3.40	--	0.369	J	48.4	--	4.25	J	8.2	HF	--	--	--	--	0.0420	J	0.147	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	2.27	--	0.471	J	6.45	J	3.20	J	8.6	HF	--	--	--	--	0.0375	J	0.0149	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	2.26	--	0.302	J	11.2	--	2.36	J	7.9	HF	--	--	--	--	0.0358	J	0.149	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	7.51	--	0.644	J	88.6	--	2.54	J	8.6	HF	--	--	--	--	0.0286	U	0.150	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
% = percent
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SU = standard unit

Qualifiers:
b = The compound was found in the blank and sample.
H = Sample was prepped or analyzed beyond the specified holding time.
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:
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Table 13
January 2022 Release Response Soil Analytical Results: Other Constituents
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Lea County, New Mexico

Constituent				Total Dissolved Solids (TDS)		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 (PFOA)	
Method				SM2540C		8330B		8330B		8330B		EPA 6860		DV-LC-0012		DV-LC-0012	
Units				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-Square 26-S-3-4-220124	1/24/2022	503	--	0.0297	U	0.0415	U	0.0219	U	0.000651	J	0.000260	U,H	0.000214	U,H
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	213	--	0.0290	U	0.0406	U	0.0214	U	0.000162	J	0.000255	U,H	0.000209	U,H
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	158	--	0.0305	U	0.0427	U	0.0225	U	0.000824	U	0.000258	U,H	0.000212	U,H
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	201	--	0.0293	U	0.0410	U	0.0217	U	0.0000767	U	0.000271	U,H	0.000222	U,H
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	112	--	0.0296	U	0.0414	U	0.0219	U	0.0000791	U	0.000267	U,H	0.000219	U,H
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	213	--	0.0293	U	0.0411	U	0.0217	U	0.000104	J	0.000277	U,H	0.000227	U,H
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	135	--	0.0303	U	0.0424	U	0.0224	U	0.000126	J	0.000279	U,H	0.000229	U,H
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	148	--	0.0288	U	0.0404	U	0.0213	U	0.0000779	U	0.000266	U,H	0.000219	U,H
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	178	--	0.0307	U	0.0430	U	0.0227	U	0.000321	J	0.000268	U,H	0.000220	U,H
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	205	--	0.0284	U	0.0398	U	0.0210	U	0.0000786	U	0.000259	U,H	0.000213	U,H
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	206	--	0.0297	U	0.0415	U	0.0219	U	0.0000777	U	0.000270	U,H	0.000222	U,H
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	169	--	0.0300	U	0.0420	U	0.0221	U	0.0000774	U	0.000263	U,H	0.000216	U,H
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	159	--	0.0300	U	0.0420	U	0.0222	U	0.0000772	U	0.000270	U	0.000222	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	347	--	0.0291	U	0.0408	U	0.0215	U	0.0000816	U	0.000260	U	0.000213	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	238	--	0.0283	U	0.0396	U	0.0209	U	0.0000822	U	0.000262	U	0.000215	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	121	--	0.0284	U	0.0397	U	0.0210	U	0.0000784	U	0.000260	U	0.000213	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	249	--	0.0289	U	0.0404	U	0.0213	U	0.0000813	U	0.000257	U	0.000211	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	118	--	0.0300	U	0.0420	U	0.0222	U	0.0000805	U	0.000267	U	0.000219	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	114	--	0.0284	U	0.0398	U	0.0210	U	0.0000763	U	0.000264	U	0.000217	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	204	--	0.0291	U	0.0408	U	0.0215	U	0.0000800	U	0.000279	U	0.000229	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	96.0	--	0.0303	U	0.0424	U	0.0224	U	0.0000805	U	0.000272	U	0.000223	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	216	--	0.0296	U	0.0415	U	0.0219	U	0.0000792	U	0.000277	U	0.000228	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	810	--	0.0306	U	0.0429	U	0.0227	U	0.0000816	U	0.000277	U	0.000227	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	110	--	0.0286	U	0.0401	U	0.0212	U	0.0000797	U	0.000267	U	0.000220	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
% = percent
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SU = standard unit

Qualifiers:
b = The compound was found in the blank and sample.
H = Sample was prepped or analyzed beyond the specified holding time.
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.
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Table 14
January 2022 Release Response Soil Analytical Results: Radium
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Jal Landfarm NM-02-0012
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		Constituent		Radium-226		Radium-228		Combined Radium 226 + 228	
		Method		GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)	
		Units		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-Square 26-S-3-4-220124	1/24/2022	1.03	--	0.313	--	1.34	--
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	1.30	--	0.0739	U	1.38	--
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	1.78	--	0.0677	U	1.85	--
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.942	--	0.144	U	1.09	--
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	1.73	--	0.183	U	1.92	--
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	1.87	--	-0.207	U	1.67	--
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	1.24	--	0.0720	U	1.31	--
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.536	--	0.0790	U	0.615	--
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	1.51	--	0.211	U	1.72	--
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.909	--	0.0942	U	1.00	--
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.650	--	0.238	U	0.888	--
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	1.22	--	0.0894	U	1.30	--
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	1.35	--	0.195	U	1.54	--
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.624	--	0.199	U	0.823	--
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.473	--	0.108	U	0.581	--
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	1.16	--	0.174	U	1.34	--
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	1.24	--	0.171	U	1.41	--
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	1.55	--	0.319	--	1.87	--
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.975	--	-0.467	U	0.507	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.451	--	0.262	--	0.713	--
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.522	--	0.642	--	1.16	--
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.198	U	0.332	--	0.530	--
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.527	--	0.427	U	0.954	--
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.400	--	0.268	--	0.667	--

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., the SDL) specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(5) NMAC, vadose zone analytical results are compared to the background soil concentration, which are provided in the approved Background Sampling Report (Arcadis 2021).
3. Detected values highlighted in grey exceed the soil background concentration.

-- = not applicable
ID = identification
NMAC = New Mexico Administrative Code
pCi/g = average picocuries per gram

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

Reference:
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Table 15
January 2022 Release Response Soil Sampling Analytical Results: Pesticides
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Lea County, New Mexico

Constituent				Aldrin		Chlordane Gamma Technical Mixture		4,4-DDT		Dieldrin		Endosulfan		Endosulfan II		Endosulfan I	
Method				8081B		8081B		8081B		8081B		8081B		8081B		8081B	
Units				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	
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-Square 26-S-3-4-220124	1/24/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000363	U	0.0239	U	0.000254	U	0.000170	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000363	U	0.0239	U	0.000254	U	0.000170	U	--	--	0.000373	U	0.000202	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000362	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000361	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	--	--	0.000372	U	0.000201	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000363	U	0.0239	U	0.000254	U	0.000169	U	--	--	0.000372	U	0.000202	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.000362	U	0.0238	U	0.000253	U	0.000169	U	--	--	0.000371	U	0.000201	U

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

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

Reference:

Arcadis. 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 15
January 2022 Release Response Soil Sampling Analytical Results: Pesticide
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Endrin		Heptachlor		alpha BHC (Hexachlorocyclohexane)		beta BHC (Hexachlorocyclohexane)		delta BHC (Hexachlorocyclohexane)		gamma BHC (Lindane) (Hexachlorocyclohexane)	
Method				8081B		8081B		8081B		8081B		8081B		8081B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.00198		0.00164		0.000946		0.00180		0.00176		0.00186	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.000291	U	0.000562	U	0.000680	U	0.000473	U	0.000833	U	0.000438	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.000291	U	0.000563	U	0.000681	U	0.000474	U	0.000834	U	0.000439	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.000291	U	0.000563	U	0.000681	U	0.000474	U	0.000835	U	0.000439	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000678	U	0.000473	U	0.000831	U	0.000438	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.000291	U	0.000562	U	0.000680	U	0.000473	U	0.000833	U	0.000438	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.000290	U	0.000560	U	0.000677	U	0.000472	U	0.000830	U	0.000437	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.000290	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.000291	U	0.000562	U	0.000680	U	0.000474	U	0.000833	U	0.000439	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.00029	U	0.000561	U	0.000678	U	0.000472	U	0.000831	U	0.000438	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.
3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

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

Reference:

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Table 15
January 2022 Release Response Soil Sampling Analytical Results: Pesticide
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Toxaphene		Prometon		Hexachlorocyclopentadiene	
Method				8081B		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.0260		0.0120		0.111	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square 26-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 17	Vadose	Cell17-Square 37-S-3-4-220124	1/24/2022	0.0113	U	0.0117	U	0.0152	U
Cell 17	Vadose	Cell17-Square 117-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 17	Vadose	Cell17-Square 129-S-3-4-220124	1/24/2022	0.0113	U	0.0119	U	0.0152	U
Cell 18	Vadose	Cell18-Square 23-S-3-4-220125	1/25/2022	0.0113	U	0.0117	U	0.0152	U
Cell 18	Vadose	Cell18-Square 34-S-3-4-220125	1/25/2022	0.0113	U	0.0118	U	0.0152	U
Cell 18	Vadose	Cell18-Square 134-S-3-4-220125	1/25/2022	0.0113	U	0.0116	U	0.0152	U
Cell 18	Vadose	Cell18-Square 180-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 6-S-3-4-220125	1/25/2022	0.0113	U	0.0118	U	0.0152	U
Cell 19	Vadose	Cell19-Square 94-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 123-S-3-4-220125	1/25/2022	0.0113	U	0.0119	U	0.0152	U
Cell 19	Vadose	Cell19-Square 193-S-3-4-220125	1/25/2022	0.0113	U	0.0117	U	0.0152	U
Cell 20	Vadose	Cell20-Square 40-S-3-4-220127	1/27/2022	0.0113	U	0.0117	U	0.0151	U
Cell 20	Vadose	Cell20-Square 66-S-3-4-220127	1/27/2022	0.0113	U	0.0119	U	0.0152	U
Cell 20	Vadose	Cell20-Square 132-S-3-4-220127	1/27/2022	0.0113	U	0.0120	U	0.152	U
Cell 20	Vadose	Cell20-Square 200-S-3-4-220127	1/27/2022	0.0113	U	0.0119	U	0.149	U
Cell 21	Vadose	Cell21-Square 41-S-3-4-220127	1/27/2022	0.0113	U	0.0118	U	0.150	U
Cell 21	Vadose	Cell21-Square58-5-3-4-220128	1/28/2022	0.0113	U	0.0117	U	0.149	U
Cell 21	Vadose	Cell21-Square88-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.151	U
Cell 21	Vadose	Cell21-Square 146-S-3-4-220127	1/27/2022	0.0113	U	0.0593	U	0.148	U
Cell 25	Vadose	Cell25-Square32-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.149	U
Cell 25	Vadose	Cell25-Square71-5-3-4-220128	1/28/2022	0.0113	U	0.0117	U	0.0151	U
Cell 25	Vadose	Cell25-Square116-5-3-4-220128	1/28/2022	0.0113	U	0.0118	U	0.151	U
Cell 25	Vadose	Cell25-Square187-5-3-4-220128	1/28/2022	0.0113	U	0.0119	U	0.152	U

Notes:

1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

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

Reference:

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Table 16
July 2022 Release Response Soil Analytical Results: TPH, BTEX, and Chloride
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes		Chloride	
		Method	8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B		9056A	
		Units	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 20	Vadose	Cell20-38-S-3-4-220726	7/26/2022	21.6	U	21.6	U	21.6	U	64.8	U	0.000734	U	0.00192	U	0.000666	U	0.000902	U	3.52	U
Cell 20	Vadose	Cell20-58-S-3-4-220726	7/26/2022	21.5	U	21.5	U	21.5	U	64.5	U	0.000736	U	0.00192	U	0.000668	U	0.000904	U	3.51	U
Cell 20	Vadose	Cell20-60-S-3-4-220726	7/26/2022	21.4	U	21.4	U	21.4	U	64.2	U	0.00074	U	0.00193	U	0.000672	U	0.000909	U	14.8	--
Cell 20	Vadose	Cell20-80-S-3-4-220726	7/26/2022	21.3	U	21.3	U	21.3	U	63.9	U	0.000726	U	0.00189	U	0.000658	U	0.000891	U	12.9	--
Cell 21	Vadose	Cell21-20-S-3-4-220726	7/26/2022	21.4	U	21.4	U	21.4	U	64.2	U	0.000724	U	0.00189	U	0.000657	U	0.000889	U	6.15	J
Cell 21	Vadose	Cell21-40-S-3-4-220726	7/26/2022	20.8	U	20.8	U	20.8	U	62.4	U	0.000739	U	0.00193	U	0.000670	U	0.000907	U	3.53	U
Cell 21	Vadose	Cell21-42-S-3-4-220727	7/27/2022	21.6	U	21.6	U	21.6	U	64.8	U	0.000740	U	0.00193	U	0.000672	U	0.000909	U	11.6	--
Cell 21	Vadose	Cell21-62-S-3-4-220727	7/27/2022	19.3	U	19.3	U	19.3	U	57.9	U	0.000732	U	0.00191	U	0.000664	U	0.000898	U	15.3	--

Notes:
[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that non-detect values are included in the summation at the SDL).
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
ORO = oil range organics
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:
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:
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Table 17
July 2022 Release Response Soil Analytical Results: Metals
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead	
		Method	6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A		6020A	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.194	--	3.18	--	243	--	0.120	J	0.0639	J	2.09	--	1.45	--	1,890	--	1.19	--
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.139	J	2.12	--	187	--	0.210	--	0.0562	J	4.22	--	1.90	--	3,950	--	2.49	--
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.418	--	2.16	--	278	--	0.118	J	0.0461	J	2.40	--	1.31	--	1,760	--	1.17	--
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.124	J	3.68	--	328	--	0.146	J	0.0530	J	2.48	--	1.42	--	2,140	--	1.34	--
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0889	J	3.37	--	418	--	0.0805	J	0.0391	J	1.46	--	1.22	--	1,390	--	1.00	--
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0986	J	2.52	--	336	--	0.106	J	0.0425	J	1.88	--	1.26	--	1,760	--	1.15	--
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.124	J	4.25	--	359	--	0.162	J	0.0703	J	3.22	--	1.86	--	2,810	--	1.68	--
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0209	U	3.11	--	1,050	--	0.169	J	0.0732	J	3.26	--	1.81	--	2,800	--	1.77	--

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2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Manganese		Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
		Method	6020A		7471A		6020A		6020A		6020A		6020A		6020A	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	23.1	--	0.0116	J	0.450	--	0.116	J	0.013	U	0.0446	J	6.72	--
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	38.2	--	0.00915	J	0.308	--	0.119	J	0.0139	U	0.0611	J	9.71	--
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	18.0	--	0.00861	U	0.351	--	0.0961	J	0.0137	U	0.0417	J	5.84	--
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	22.3	--	0.00877	U	0.516	--	0.135	J	0.0137	U	0.0502	J	18.2	--
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	13.0	--	0.00877	U	0.452	--	0.0746	J	0.0142	U	0.030	J	8.65	--
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	14.3	--	0.00829	U	0.382	--	0.0894	J	0.0135	U	0.0342	J	6.13	--
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	25.4	--	0.00785	U	0.661	--	0.139	J	0.0274	U	0.0521	J	7.46	--
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	25.3	--	0.00799	U	0.449	--	0.128	J	0.0279	U	0.0581	J	6.74	--

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Table 18
July 2022 Release Response Soil Analytical Results: VOCs
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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				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background 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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.00168	U	0.000165	U	0.001630	U	0.001640	U	0.001780	U	0.002	U	0.001460	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.00168	U	0.000165	U	0.00163	U	0.00164	U	0.00178	U	0.00201	U	0.00146	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.00169	U	0.000166	U	0.00164	U	0.00165	U	0.00179	U	0.00202	U	0.00147	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.001660	U	0.000163	U	0.00161	U	0.00162	U	0.00176	U	0.00198	U	0.00144	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.001660	U	0.000162	U	0.00160	U	0.00162	U	0.00176	U	0.00198	U	0.00144	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.00169	U	0.000166	U	0.00164	U	0.00165	U	0.00179	U	0.00202	U	0.00146	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.000169	U	0.000166	U	0.00164	U	0.00165	U	0.00179	U	0.00202	U	0.00147	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.000167	U	0.000164	U	0.00162	U	0.00163	U	0.00177	U	0.00200	U	0.00145	U

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Constituent				1,2-Dibromoethane		1,2-Dichloroethane		1,2-Dichloropropane		1,4-Dichlorobenzene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.000301		0.000521		0.000501		0.000321		0.000511		0.000872		0.000571	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.001630	U	0.00192	U	0.001700	U	0.00144	U	0.00182	U	0.0017	U	0.00149	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.00164	U	0.00192	U	0.0017	U	0.00144	U	0.00182	U	0.00171	U	0.00150	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.00165	U	0.00193	U	0.00171	U	0.00145	U	0.00183	U	0.00172	U	0.00151	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.00161	U	0.00162	U	0.00168	U	0.00142	U	0.00180	U	0.00168	U	0.00148	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.00161	U	0.00189	U	0.00167	U	0.00142	U	0.00179	U	0.00168	U	0.00147	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.00164	U	0.00193	U	0.00171	U	0.00145	U	0.00183	U	0.00171	U	0.00150	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.00165	U	0.00165	U	0.00171	U	0.00145	U	0.00183	U	0.00172	U	0.00151	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.00163	U	0.001910	U	0.00169	U	0.001440	U	0.00181	U	0.00170	U	0.00149	U

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Constituent				Methylene chloride (Dichloromethane)		Methyl-t-butyl ether		Styrene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene (Trichloroethylene)		Vinyl chloride (Chloroethene)	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.00501		0.000611		0.000301		0.000741		0.000501		0.000281		0.000601	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0125	U	0.00198	U	0.001490	U	0.001630	U	0.001590	U	0.00191	U	0.001850	U*
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0125	U	0.00198	U	0.0015	U	0.00163	U	0.00159	U	0.00191	U	0.00185	U*
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0126	U	0.002	U	0.00151	U	0.001640	U	0.00160	U	0.00192	U	0.00186	U*
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0123	U	0.00196	U	0.00148	U	0.00161	U	0.00157	U	0.00188	U	0.00183	U*
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0123	U	0.00195	U	0.001470	U	0.00161	U	0.00157	U	0.00188	U	0.00182	U*
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0126	U	0.00199	U	0.0015	U	0.00164	U	0.00160	U	0.00192	U	0.00186	U*
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0126	U	0.00200	U	0.00151	U	0.00192	U	0.00160	U	0.00192	U	0.00186	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0124	U	0.00197	U	0.00149	U	0.00162	U	0.001580	U	0.00190	U	0.00184	U

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Constituent				Tribromomethane		Acrolein		Acrylonitrile		Bromodichloromethane		Bromomethane (Methyl bromide)		Chloromethane (Methyl chloride)		Trichlorofluoromethane (Freon 11)	
Method				8260B		8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.000511		0.00862		0.00361		0.000200		0.00110		0.00120		0.000501	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.00222	U	0.0391	U	0.00909	U	0.00179	U	0.00243	U	0.00286	U	0.001790	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.00222	U	0.0392	U	0.00911	U	0.00179	U	0.00243	U	0.00287	U	0.00179	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.00223	U	0.0394	U	0.00916	U	0.00180	U	0.00245	U	0.00288	U	0.00180	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.00219	U	0.0386	U	0.00898	U	0.00177	U	0.0024	U	0.00283	U	0.00177	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.00218	U	0.03850	U	0.00896	U	0.00176	U	0.00239	U	0.00282	U	0.00176	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.00223	U	0.0393	U	0.00915	U	0.0018	U	0.00244	U	0.00288	U	0.00180	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.00223	U	0.0394	U	0.00916	U	0.0018	U	0.00245	U	0.00288	U	0.00180	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.002210	U	0.0389	U	0.00905	U	0.00178	U	0.00242	U	0.00285	U	0.00178	U

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Constituent				1,4-Dioxane		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		1,3-Dichloropropene		1,1-Dichloropropene		Dichlorodifluoromethane (Freon 12)	
Method				8260B		8260B		8260B		8260B		8260B		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0190		0.000451		0.000521		0.000521		0.000521		0.000731	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0241	U	0.001640	U	0.00167	U	0.00167	U	0.00175	U	0.003	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0241	U	0.00164	U	0.00167	U	0.00164	U	0.00175	U	0.00301	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0243	U	0.00168	U	0.00168	U	0.00168	U	0.00176	U	0.00303	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0238	U	0.00162	U	0.001650	U	0.00165	U	0.00173	U	0.00297	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0237	U	0.00162	U	0.001650	U	0.00165	U	0.00173	U	0.00296	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0242	U	0.00165	U	0.001680	U	0.00168	U	0.00176	U	0.00302	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0243	U	0.00165	U	0.001680	U	0.00168	U	0.00176	U	0.00303	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0240	U	0.00163	U	0.001660	U	0.00166	U	0.00174	U	0.00299	U

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Constituent				1-Methyl-naphthalene		2-Methyl-Naphthalene		Acenaphthene		Acenaphthylene		Anthracene		Atrazine		Benzo(a)anthracene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0112		0.0190		0.0103		0.0821		0.0170		0.0370		0.0200	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0531	U	0.0898	U	0.0308	U	0.0294	U	0.0275	U	0.0328	U	0.028	U*
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0267	U	0.0451	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U*
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0526	U	0.0891	U	0.0306	U	0.0291	U	0.0272	U	0.0326	U	0.0277	U*
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0528	U	0.0893	U	0.0306	U	0.0292	U	0.0273	U	0.0326	U	0.0278	U*
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.017	U	0.0441	U	0.0151	U	0.0144	U	0.0135	U	0.0161	U	0.0137	U*
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0259	U	0.0438	U	0.015	U	0.0143	U	0.0134	U	0.016	U	0.0136	U*
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0267	U	0.0452	U	0.0155	U	0.0148	U	0.0138	U	0.0165	U	0.0141	U

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Table 19
July 2022 Release Response Soil Analytical Results: SVOCs
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0200		0.0262		0.0160		0.0400		0.0270		0.0190		0.0360	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0342	U	0.025	U*	0.0305	U	0.0385	U	0.0328	U	0.0252	U	0.0292	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0172	U	0.0126	U*	0.0153	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.034	U	0.0248	U*	0.0303	U	0.0193	U	0.0326	U	0.025	U	0.029	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.034	U	0.0248	U*	0.0303	U	0.0193	U	0.0327	U	0.0251	U	0.029	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0168	U	0.0123	U*	0.015	U	0.0193	U	0.0161	U	0.0124	U	0.0143	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0167	U	0.0122	U*	0.0149	U	0.0193	U	0.016	U	0.0123	U	0.0142	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0172	U	0.0126	U	0.0154	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0172	U	0.0126	U	0.0154	U	0.0193	U	0.0165	U	0.0127	U	0.0147	U

Notes:
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3. Detected values highlighted in grey exceed the 2022 background soil concentrations (Arcadis 2021).

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MQL = method quantitation limit
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SDL = sample detection limit
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Lea County, New Mexico

Constituent				Fluorene		Indeno(1,2,3-cd)Pyrene		Naphthalene		Phenanthrene		Pyrene		Pentachlorophenol		1,2,4,5-Tetrachlorobenzene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0180		0.0220		0.0310		0.0170		0.0121		0.330		0.0490	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0275	U	0.0267	U	0.0311	U	0.033	U	0.029	U	0.0241	U	0.0327	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0273	U	0.0265	U	0.0308	U	0.0327	U	0.0288	U	0.0239	U	0.0325	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0273	U	0.0265	U	0.0309	U	0.0328	U	0.0289	U	0.024	U	0.0326	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0135	U	0.0131	U	0.0153	U	0.0162	U	0.0143	U	0.0118	U	0.0161	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0134	U	0.013	U	0.0151	U	0.0161	U	0.0142	U	0.0118	U	0.016	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0139	U	0.0135	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0138	U	0.0134	U	0.0156	U	0.0166	U	0.0146	U	0.0121	U	0.0165	U

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Constituent				Hexachlorobenzene		Pentachlorobenzene		2,4-Dichlorophenol		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		bis(2-chloroisopropyl) ether		bis(2-Chloroethyl) ether	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0290		0.0650		0.0100		0.0100		0.0100		0.0230		0.0166	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0275	U	0.0316	U	0.0347	U	0.0379	U	0.0313	U	0.0354	U	0.0302	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0162	U	0.0159	U	0.0174	U	0.019	U	0.0157	U	0.0178	U	0.0152	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0273	U	0.0313	U	0.0344	U	0.0376	U	0.0311	U	0.0351	U	0.03	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.032	U	0.0314	U	0.0345	U	0.0377	U	0.0311	U	0.0351	U	0.03	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0158	U	0.0155	U	0.017	U	0.0186	U	0.0154	U	0.0174	U	0.0148	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0157	U	0.0154	U	0.0169	U	0.0185	U	0.0153	U	0.0172	U	0.0147	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0162	U	0.0159	U	0.0175	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0138	U	0.0159	U	0.0174	U	0.0191	U	0.0158	U	0.0178	U	0.0152	U

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Constituent				Hexachloroethane		N-Nitrosodi-n-Butylamine		N-Nitrosodiethylamine		N-Nitrosodimethylamine		N-Nitrosodiphenylamine (Diphenylamine)		N-Nitrosopyrrolidine		4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0213		0.0967		0.0650		0.0370		0.0210		0.0640		0.330	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0344	U	0.0502	U	0.0436	U	0.0333	U	0.037	U	0.028	U	0.0253	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0173	U	0.0252	U	0.0219	U	0.0167	U	0.0186	U	0.0141	U	0.0127	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0341	U	0.0498	U	0.0432	U	0.0432	U	0.0367	U	0.0278	U	0.0251	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0341	U	0.0499	U	0.0433	U	0.0331	U	0.0368	U	0.0278	U	0.0251	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0169	U	0.0247	U	0.0214	U	0.0164	U	0.0182	U	0.0138	U	0.0124	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0168	U	0.0245	U	0.0213	U	0.0162	U	0.0181	U	0.0137	U	0.0123	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0173	U	0.0253	U	0.0219	U	0.0168	U	0.0186	U	0.0141	U	0.0127	U

Notes:
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Constituent				2,4-Dinitrotoluene		2,6-Dinitrotoluene		2,4-Dinitrophenol		Nitrobenzene		bis(2-Ethylhexyl)phthalate		Di-n-butylphthalate		Diethylphthalate	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0660		0.0280		0.333		0.0220		0.0537		0.0290		0.0260	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0253	U*	0.0463	U	0.0481	U	0.0368	U	0.331	U*	0.0319	U	0.0304	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0127	U*	0.0233	U	0.0242	U	0.0185	U	0.167	U*	0.016	U	0.0153	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0251	U	0.0459	U	0.0251	U*	0.0365	U	0.329	U*	0.0316	U	0.0302	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0252	U*	0.046	U	0.0478	U	0.0365	U	0.329	U*	0.03	U	0.0302	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0124	U*	0.0227	U	0.0236	U	0.0181	U	0.163	U*	0.0157	U	0.0149	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0123	U*	0.0226	U	0.0123	U*	0.0179	U	0.162	U*	0.0156	U	0.0148	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0128	U	0.0233	U	0.0242	U	0.0185	U	0.167	U	0.0161	U	0.0153	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0127	U	0.0233	U	0.0174	U	0.0185	U	0.167	U	0.016	U	0.0153	U

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Constituent				Dimethyl phthalate		Benzidine		3,3'-Dichlorobenzidine		1,2-Diphenylhydrazine		Isophorone		Hexachlorobutadiene		Thiophene, tetrahydro-, 1,1-dioxide		Chlorobenzene	
Method				8270D		8270D		8270D		8270D		8270D		8270D		8270D		8260B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Soil Background Concentration				0.0230		0.990		0.0900		0.0220		0.0170		0.0100		--		0.000301	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.0316	U	0.0241	U	0.0306	U	0.0345	U	0.0288	U	0.0275	U	0.662	U	--	--
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	--	--
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0313	U	0.0239	U	0.0304	U	0.0343	U	0.0286	U	0.0273	U	0.657	U	--	--
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0314	U	0.0239	U	0.0304	U	0.0343	U	0.0287	U	0.0273	U	0.658	U	--	--
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0155	U	0.0118	U	0.015	U	0.017	U	0.0142	U	0.0135	U	0.325	U	--	--
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0154	U	0.0117	U	0.0149	U	0.0169	U	0.0141	U	0.0134	U	0.323	U	--	--
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0139	U	0.333	U	--	--
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0159	U	0.0121	U	0.0154	U	0.0174	U	0.0145	U	0.0138	U	0.333	U	--	--

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Table 20
July 2022 Release Response Soil Analytical Results: PCBs
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		Constituent	PCB-1016		PCB-1221		PCB-1232		PCB-1242		PCB-1248		PCB-1254		PCB-1260	
		Method	8082		8082		8082		8082		8082		8082		8082	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Soil Background 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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.00384	U	0.00384	U	0.00384	U	0.00384	U	0.00384	U	0.00253	U	0.00253	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.00773	U	0.00773	U	0.00773	U	0.00773	U	0.00773	U	0.00510	U	0.00510	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.00386	U	0.00386	U	0.00386	U	0.00386	U	0.00386	U	0.00254	U	0.00254	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.00392	U	0.00392	U	0.00392	U	0.00392	U	0.00392	U	0.00259	U	0.00259	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00394	U	0.00260	U	0.00260	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00395	U	0.00260	U	0.00260	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
PCB = polychlorinated biphenyls
SDL = sample detection limit

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

Reference:
Arcadis. 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 21
July 2022 Release Response Soil Analytical Results: Other Constituents
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Lea County, New Mexico

Constituent				Nitrogen, Nitrate as N		Nitrogen, Nitrite		Sulfate (SO4)		Fluoride		pH		Percent Solids		Moisture		Total Cyanide		Phenols	
Method				SW9056A		SW9056A		SW9056A		SW9056A		SW9045		Moisture		Moisture		9012A		SW8270D	
Units				mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg	
Background Soil Concentration				3.56		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	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.107	U	0.0497	U	175	--	7.21	--	8.7	HF	--	--	--	--	0.0453	J	0.0600	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.107	U	0.0496	U	143	--	4.43	J	8.6	HF	--	--	--	--	0.113	--	0.0600	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	10.7	--	10.7	--	180	--	2.47	J	8.9	HF	--	--	--	--	0.0375	J	0.0600	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.108	U	0.0498	U	224	--	7.67	--	9.2	HF	--	--	--	--	0.0353	J	0.0600	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.107	U	0.0497	U	345	--	5.85	--	9.1	HF	--	--	--	--	0.0791	--	0.0600	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.108	U	0.0499	U	207	--	7.05	--	9.0	HF	--	--	--	--	0.0734	--	0.0600	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.108	U	0.0499	U	101	--	8.25	--	8.4	HF	--	--	--	--	0.0862	--	0.0600	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0500	U	0.108	U	142	--	6.94	--	8.7	HF	--	--	--	--	0.0428	J	0.0600	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
% = percent
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SU = standard unit

Qualifiers:
b = The compound was found in the blank and sample.
H = Sample was prepped or analyzed beyond the specified holding time.
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:

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Table 21
July 2022 Release Response Soil Analytical Results: Other Constituents
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Total Dissolved Solids (TDS)		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 (PFOA)	
Method				SM2540C		8330B		8330B		8330B		EPA 6860		DV-LC-0012		DV-LC-0012	
Units				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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	160	H b	0.029	U	0.0406	U	0.0214	U	0.000133	J	0.000267	U	0.000219	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	157	H b	0.0295	U	0.0413	U	0.0218	U	0.000108	J	0.000278	U	0.000228	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	115	H b	0.0283	U	0.0396	U	0.0209	U	0.000805	U	0.000264	U	0.000217	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	138	H b	0.0298	U	0.0418	U	0.0221	U	0.000146	J	0.000259	U	0.000213	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	220	H b	0.0297	U	0.0416	U	0.0220	U	0.000196	J	0.000268	U	0.000221	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	125	H b	0.0285	U	0.0399	U	0.0211	U	0.000131	J	0.000270	U	0.000222	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	212	H b	0.0296	U	0.0415	U	0.0219	U	0.000194	J	0.000279	U	0.000229	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	142	H b	0.0301	U	0.0422	U	0.0223	U	0.000769	U	0.000131	U	0.000216	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
% = percent
ID = identification
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
SU = standard unit

Qualifiers:
b = The compound was found in the blank and sample.
H = Sample was prepped or analyzed beyond the specified holding time.
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. 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 22
July 2022 Release Response Soil Analytical Results: Radium
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

		Constituent	Radium-226		Radium-228		Combined Radium 226 + 228	
		Method	GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)		GA-01-R - Radium-226 & Other Gamma Emitters (GS)	
		Units	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 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	1.38	--	0.148	U	1.53	
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.911	--	0.1440	U	1.05	--
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.816	--	0.0900	U	0.906	--
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.909	--	0.0759	U	0.985	--
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	1.36	--	0.0763	U	1.43	--
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.866	--	0.290	--	1.16	--
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	1.27	--	0.0495	U	1.32	--
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.567	--	0.0568	U	0.624	--

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
NMAC = New Mexico Administrative Code
pCi/g = average picocuries per gram

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

Reference:
Arcadis. 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 23
July 2022 Release Response Soil Analytical Results: Pesticides
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Aldrin		Chlordane Gamma Technical Mixture		4,4-DDT		Dieldrin		Endosulfan		Endosulfan II		Endosulfan I	
Method				8081B		8081B		8081B		8081B		8081B		8081B		8081B	
Units				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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.000352	U	0.0232	U	0.000246	U	0.000164	U	0.000268	U	0.000361	U	0.000196	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.000710	U	0.0468	U	0.000497	U	0.000331	U	0.00054	U	0.000728	U	0.000395	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.000354	U	0.0233	U	0.000248	U	0.000165	U	0.000269	U	0.000364	U	0.000197	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	0.000276	U	0.000372	U	0.000202	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.000362	U	0.0238	U	0.000253	U	0.000169	U	0.000275	U	0.000371	U	0.000201	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.00036	U	0.0237	U	0.000252	U	0.000168	U	0.000274	U	0.00037	U	0.0002	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.000362	U	0.0239	U	0.000253	U	0.000169	U	0.000275	U	0.000372	U	0.000201	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.000362	U	0.0239	U	0.000254	U	0.000169	U	0.000276	U	0.000202	U	0.000372	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

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

Reference:
Arcadis. 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 23
July 2022 Release Response Soil Analytical Results: Pesticides
2022 Annual Report
Jal Landfarm NM-02-0012
Lea County, New Mexico

Constituent				Endrin		Heptachlor		alpha BHC (Hexachlorocyclohexane)		beta BHC (Hexachlorocyclohexane)		delta BHC (Hexachlorocyclohexane)		gamma BHC (Lindane) (Hexachlorocyclohexane)	
Method				8081B		8081B		8081B		8081B		8081B		8081B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				0.00198		0.00164		0.000946		0.00180		0.00176		0.00186	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.000282	U	0.000546	U	0.00066	U	0.00046	U	0.000809	U	0.000426	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.000569	U	0.011	U	0.013300	U	0.000927	U	0.00163	U	0.000858	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.000284	U	0.000549	U	0.000664	U	0.000463	U	0.000814	U	0.000428	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.00029	U	0.000561	U	0.000678	U	0.000473	U	0.000831	U	0.000438	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.000289	U	0.000558	U	0.000675	U	0.00047	U	0.000828	U	0.000436	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.00029	U	0.000561	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.000291	U	0.000562	U	0.000679	U	0.000473	U	0.000832	U	0.000438	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

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

Reference:
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Table 23
July 2022 Release Response Soil Analytical Results: Pesticides
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Lea County, New Mexico

		Constituent	Toxaphene		Prometon		Hexachlorocyclopentadiene	
		Method	8081B		8270D		8270D	
		Units	mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	0.0260		0.0120		0.111	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 20	Vadose	Cell20-Square-38-S-3-4	7/26/2022	0.011	U	0.0117	U	0.0302	U
Cell 20	Vadose	Cell20-Square-58-S-3-4	7/26/2022	0.0221	U	0.0593	U	0.0152	U
Cell 20	Vadose	Cell20-Square-60-S-3-4	7/26/2022	0.0111	U	0.0119	U	0.0300	U
Cell 20	Vadose	Cell20-Square-80-S-3-4	7/26/2022	0.0113	U	0.0116	U	0.0300	U
Cell 21	Vadose	Cell21-Square-20-S-3-4	7/26/2022	0.0113	U	0.0117	U	0.0148	U
Cell 21	Vadose	Cell21-Square-40-S-3-4	7/26/2022	0.0112	U	0.0116	U	0.0147	U
Cell 21	Vadose	Cell21-Square-42-S-3-4	7/27/2022	0.0113	U	0.0118	U	0.0152	U
Cell 21	Vadose	Cell21-Square-62-S-3-4	7/27/2022	0.0113	U	0.0595	U	0.0152	U

Notes:
1. Non-detect values are reported to the sample detection limit (i.e., 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 grey exceed the 2022 background soil concentrations (Arcadis 2021).

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

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

Reference:
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Table 25
December 2022 5-Year Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

ARCADIS

Constituent				Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead		Manganese	
Method				6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentrations				1.93		4.28		636		0.45		0.095		6.31		2.67		6,731		5.64		58.3	
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 1	Vadose	Cell-1-Square11-S-3-4-2211214	12/14/2022	0.934	U	3.23	J	402	--	0.175	U	0.0789	U	1.68	J	0.993	J	1,490	b	1.05	J	15.4	--
Cell 1	Vadose	Cell 1-Square36-S-3-4-221214	12/14/2022	0.888	U	2.87	J	304	--	0.207	J	0.075	U	4.04	--	2.03	J	3,090	b	1.85	--	32.2	--
Cell 1	Vadose	Cell 1-Square89-S-3-4-221214	12/14/2022	0.888	U	3.93	--	264	--	0.167	U	0.075	U	1.23	J	0.853	J	1,090	b	0.784	J	10.3	--
Cell 1	Vadose	Cell-1-Square156-S-3-4-221214	12/14/2022	0.918	U	3.18	J	363	--	0.172	U	0.0776	U	1.79	J	0.966	J	1,540	b	0.997	J	15.7	--
Cell 2	Vadose	Cell 2-Square11-S-3-4-221214	12/14/2022	0.918	U	1.61	J	131	--	0.172	J	0.12	J	3.25	J	1.53	J	2,570	b	1.65	J	27.6	--
Cell 2	Vadose	Cell 2-Square40-S-3-4-221214	12/14/2022	0.888	U	1.62	J	659	--	0.167	U	0.075	U	1.52	J	1.00	J	1,360	b	0.977	J	14.7	--
Cell 2	Vadose	Cell 2-Square65-S-3-4-221214	12/14/2022	0.918	U	2.64	J	264	--	0.172	U	0.0776	U	2.41	J	1.59	J	2,030	b	1.21	J	19.4	--
Cell 2	Vadose	Cell 2-Square146-S-3-4-221214	12/14/2022	0.934	U	2.28	J	465	--	0.175	U	0.0789	U	2.5	J	1.47	J	2,170	b	1.51	J	25.2	--
Cell 3	Vadose	Cell 3-Square78-S-3-4-221214	12/14/2022	0.951	U	1.78	J	68.4	--	0.188	J	0.105	J	4.94	--	2.14	J	3,790	b	2.44	--	35.9	--
Cell 3	Vadose	Cell 3-Square121-S-3-4-221214	12/14/2022	0.934	U	2.16	J	197	--	0.175	U	0.0886	J	2.76	J	1.43	J	2,160	b	1.41	J	23.2	--
Cell 3	Vadose	Cell 3-Square131-S-3-4-221214	12/14/2022	0.918	U	2.82	J	294	--	0.172	U	0.0776	U	2.8	J	1.77	J	2,460	b	1.58	J	23	--
Cell 3	Vadose	Cell 3-Square154-S-3-4-221214	12/14/2022	0.903	U	3.01	J	187	--	0.169	U	0.0763	U	2.64	J	1.42	J	2,190	b	1.43	J	23.2	--
Cell 4	Vadose	Cell 4-Square38-S-3-4-221214	12/14/2022	0.934	U	2.69	J	204	--	0.175	U	0.103	J	3.14	J	2.09	J	2,910	b	2.09	--	36.9	--
Cell 4	Vadose	Cell 4-Square115-S-3-4-221214	12/14/2022	0.888	U	1.2	J	27.6	--	0.167	U	0.075	U	3.6	--	1.52	J	3,170	b	2.09	--	27.3	--
Cell 4	Vadose	Cell 4-Square130-S-3-4-221214	12/14/2022	2.01	U	0.471	J	29.5	--	0.189	U	0.170	U	0.510	U	4.41	--	238	--	0.150	J	3.29	--
Cell 4	Vadose	Cell 4-Square202-S-3-4-221214	12/14/2022	0.888	U	3.05	J	129	--	0.167	U	0.075	U	1.68	--	1.19	J	1,440	b	0.938	J	15.6	--
Cell 5	Vadose	Cell 5-Square14-S-3-4-221213	12/13/2022	0.918	U	3.5	--	258	--	0.172	U	0.0776	U	2.1	J	1.35	J	1,760	--	1.06	J	16.1	--
Cell 5	Vadose	Cell 5-Square121-S-3-4-221213	12/13/2022	0.918	U	3.98	--	600	--	0.172	U	0.0776	U	2.68	J	1.42	J	2,230	--	1.38	J	19.2	--
Cell 5	Vadose	Cell 5-Square167-S-3-4-221213	12/13/2022	0.903	U	2.7	J	449	--	0.169	U	0.0763	U	2.49	J	1.14	J	2,160	--	1.28	J	18.1	--
Cell 5	Vadose	Cell 5-Square187-S-3-4-221213	12/13/2022	0.888	U	3.5	--	370	--	0.167	U	0.075	U	2.19	J	1.49	J	1,940	--	1.33	J	17	--
Cell 6	Vadose	Cell 6-Square25-S-3-4-221213	12/13/2022	0.888	U	1.09	J	80.5	--	0.167	U	0.0821	J	1.84	J	1.15	J	1,620	--	1.12	J	22.9	--
Cell 6	Vadose	Cell 6-Square111-S-3-4-221213	12/13/2022	0.888	U	1.94	J	137	--	0.174	J	0.075	U	4.92	--	2.43	J	3,790	--	2.02	--	39.6	--
Cell 6	Vadose	Cell 6-Square203-S-3-4-221213	12/13/2022	0.918	U	1.75	J	253	--	0.172	U	0.0866	J	2.49	J	1.34	J	2,100	--	1.28	J	21.4	--
Cell 6	Vadose	Cell 6-Square207-S-3-4-221213	12/13/2022	0.903	U	2.09	J	103	--	0.415	J	0.0903	J	3.24	J	1.79	J	2,210	--	1.68	J	23.7	--
Cell 7	Vadose	Cell 7-Square23-S-3-4-221213	12/13/2022	0.934	U	2.85	J	263	--	0.175	U	0.0789	U	1.12	J	0.852	J	1,050	b	0.679	J	10.4	--
Cell 7	Vadose	Cell 7-Square35-S-3-4-221213	12/13/2022	0.934	U	2.25	J	95.8	--	0.309	J	0.11	J	6.47	--	4.04	--	5,840	--	3.89	--	66.8	--
Cell 7	Vadose	Cell 7-Square59-S-3-4-221213	12/13/2022	0.934	U	1.98	J	276	--	0.175	U	0.0789	U	0.869	J	1.05	J	745	--	0.494	J	9.48	--
Cell 7	Vadose	Cell 7-Square154-S-3-4-221213	12/13/2022	0.934	U	2.6	J	257	--	0.175	U	0.0789	U	1.64	J	1.1	J	1,270	--	0.868	J	13.7	--
Cell 8	Vadose	Cell 8-Square91-S-3-4-221213	12/13/2022	0.903	U	2.37	J	182	--	0.169	U	0.0763	U	7.46	--	1.45	J	1,890	b	1.22	J	19.2	--
Cell 8	Vadose	Cell 8-Square123-S-3-4-221213	12/13/2022	0.903	U	3.43	--	228	--	0.169	U	0.0763	U	2.43	J	1.96	J	1,910	b	1.38	J	18.8	--
Cell 8	Vadose	Cell 8-Square162-S-3-4-221213	12/13/2022	0.934	U	2.87	J	147	--	0.175	U	0.0789	U	1.69	J	1.37	J	1,520	b	1.01	J	12.9	--
Cell 8	Vadose	Cell 8-Square171-S-3-4-221212	12/12/2022	0.934	U	3.65	--	251	--	0.175	U	0.0789	U	1.56	J	1.8	J	1,270	--	0.878	J	16.8	--
Cell 9	Vadose	Cell 9-Square119-S-3-4-221212	12/12/2022	0.903	U	3.09	J	280	--	0.169	U	0.0763	U	2.18	J	2.72	J	1,660	--	1.15	J	14.3	--
Cell 9	Vadose	Cell 9-Square135-S-3-4-221212	12/12/2022	0.903	U	3.02	J	132	--	0.169	U	0.0763	U	2.64	J	2.88	J	2,260	--	1.65	J	24.6	--
Cell 9	Vadose	Cell 9-Square186-S-3-4-221212	12/12/2022	0.888	U	2.63	J	227	--	0.167	U	0.075	U	3.21	J	3.3	J	2,830	--	1.93	--	29.7	--
Cell 9	Vadose	Cell 9-Square188-S-3-4-221212	12/12/2022	0.918	U	3.11	J	251	--	0.172	U	0.0849	J	2.29	J	3.82	--	1,870	--	1.31	J	21.9	--
Cell 10	Vadose	Cell 10-Square13-S-3-4-221212	12/12/2022	0.918	U	3.45	--	312	--	0.172	U	0.0776	U	1.99	J	2.83	J	1,670	--	1.12	J	16.7	--
Cell 10	Vadose	Cell 10-Square83-S-3-4-221212	12/12/2022	0.934	U	2.53	J	172	--	0.175	U	0.0789	U	2.81	J	2.16	J	2,150	--	1.34	J	22	--
Cell 10	Vadose	Cell 10-Square150-S-3-4-221212	12/12/2022	0.903	U	3.16	J	462	--	0.169	U	0.0763	U	2.32	J	2.31	J	2,050	--	1.43	J	20.1	--
Cell 10	Vadose	Cell 10-Square164-S-3-4-221212	12/12/2022	0.918	U	2.72	J	289	--	0.172	U	0.0901	J	2.38	J	2.89	J	1,920	--	1.28	J	23.9	--
Cell 11	Vadose	Cell 11-Square66-S-3-4-221212	12/12/2022	0.888	U	1.69	J	33.6	--	0.319	J	0.0808	J	6.1	--	3.8	--	5,640	--	3.89	--	92.4	--
Cell 11	Vadose	Cell 11-Square91-S-3-4-221212	12/12/2022	0.918	U	2.31	J	163	--	0.238	J	0.108	J	5.4	--	3.84	--	4,610	--	2.88	--	59.5	--
Cell 11	Vadose	Cell 11-Square94-S-3-4-221212	12/12/2022	0.888	U	2.16	J	149	--	0.167	U	0.0879	J	3.27	J	2.52	J	2,470	--	1.45	J	24.5	--
Cell 11	Vadose	Cell 11-Square135-S-3-4-221212	12/12/2022	0.918	U	1.83	J	150	--	0.172	U	0.0776	U	1.36	J	1.8	J	1,100	--	0.767	J	9.84	--
Cell 12	Vadose	Cell 12-Square15-S-3-4-221212	12/12/2022	0.903	U	2.29	J	123	--	0.169	U	0.12	J	2.44	J	2.11	J	1,880	--	1.39	J	30.8	--
Cell 12	Vadose	Cell 12-Square28-S-3-4-221212	12/12/2022	0.888	U	2.76	J	215	--	0.167	U	0.075	U	1.49	J	1.56	J	1,120	--	0.717	J	11.8	--
Cell 12	Vadose	Cell 12-Square38-S-3-4-221212	12/12/2022	0.934	U	3.82	--	472	--	0.175	U	0.0789	U	1.18	J	1.61	J	917	--	0.592	J	7.18	--
Cell 12	Vadose	Cell 12-Square83-S-3-4-221212	12/12/2022	0.888	U	2.44	J	224	--	0.167	U	0.075	U	1.9	J	1.59	J	1,500	--	1.04	J	14.8	--
Cell 13	Vadose	Cell 13-Square46-S-3-4-220812	12/08/2022	1.00	U	2.76	J	295	--	0.189	U	0.0849	U	1.84	J	0.933	J	1,450	--	0.941	J	17.9	--
Cell 13	Vadose	Cell 13-Square104-S-3-4-220812	12/08/2022	1.02	U	4.44	--	162	--	0.192	U	0.0865	U	2.07	J	1.13	J	1,730	--	1.11	J	22.7	--
Cell 13	Vadose	Cell 13-Square191-S-3-4-220812	12/08/2022	1.07	U	4.09	--	190	--	0.234	J	0.09	U	3.13	J	1.35	J	2,710	--	2.12	--	28	--
Cell 13	Vadose	Cell 13-Square197-S-3-4-220812	12/08/2022	1.04	U	3.32	J	353	--	0.196	U	0.0882	U	2.22	J	1.72	J	1,730	--	1.15	J	20.1	--
Cell 14	Vadose	Cell 14-Square20-S-3-4-220812	12/08/2022	1.00	U	2.9	J	399	--	0.189	U	0.0849	U	2.16	J	1.71	J	1,710	--	1.07	J	21.2	--
Cell 14	Vadose	Cell 14-Square47-S-3-4-220812	12/08/2022	0.951	U	2.93	J	457	--	0.179	U	0.0804	U	2.43	J	1.19	J	1,980	--	1.33	J	23	--
Cell 14	Vadose	Cell 14-Square50-S-3-4-220812	12/08/2022	1.02	U	2.33	J	119	--	0.244	J	0.0894	J	5.09	--	3.09	J	4,370	--	2.88	--	64.5	--
Cell 14	Vadose	Cell 14-Square121-S-3-4-220812	12/08/2022	1.00	U	2.11	J	166	--	0.189	U	0.0901	J	1.69	J	1.01	J	1,350	--	0.917	J	19.7	--
Cell 15	Vadose	Cell 15-Square20-S-3-4-220812	12/08/2022	1.04	U	2.48	J	315	--	0.196	U	0.0882	U	1.9	J	1.19	J	1,520	--	0.997	J	22.4	--

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Table 25
December 2022 5-Year Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

Constituent				Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead		Manganese	
Method				6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B		6010B	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentrations				1.93		4.28		636		0.45		0.095		6.31		2.67		6,731		5.64		58.3	
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 15	Vadose	Cell 15-Square76-S-3-4-220812	12/08/2022	0.968	U	2.64	J	150	--	0.182	U	0.0818	U	2.66	J	1.12	J	2,120	--	1.37	J	23.5	--
Cell 15	Vadose	Cell 15-Square146-S-3-4-220812	12/08/2022	0.934	U	2.59	J	367	--	0.175	U	0.0789	U	1.81	J	1.17	J	1,410	--	0.949	J	21.1	--
Cell 15	Vadose	Cell 15-Square153-S-3-4-220812	12/08/2022	0.888	U	3.43	--	243	--	0.167	U	0.075	U	2.88	J	1.47	J	2,320	--	1.22	J	28.9	--
Cell 16	Vadose	Cell 16-Square13-S-3-4-220912	12/09/2022	0.918	U	3.08	J	155	--	0.172	U	0.0776	U	1	J	1.25	J	806	b	0.83	J	11.7	--
Cell 16	Vadose	Cell 16-Square75-S-3-4-220912	12/09/2022	0.903	U	2.68	J	295	--	0.169	U	0.0763	U	3.04	J	1.52	J	2,650	b	1.85	--	26.3	--
Cell 16	Vadose	Cell 16-Square88-S-3-4-220912	12/09/2022	0.918	U	3.5	--	307	--	0.172	U	0.0776	U	1.6	J	0.904	J	1,410	b	1.03	J	12.5	--
Cell 16	Vadose	Cell 16-Square135-S-3-4-220912	12/09/2022	0.934	U	2.46	J	210	--	0.175	U	0.124	J	3.13	J	2.27	J	2,710	b	2.12	--	34.3	--
Cell 17	Vadose	Cell 17-Square6-S-3-4-221206	12/06/2022	1.78	U	2.15	J	78.6	--	0.167	U	0.075	U	2.45	J	1.25	J	2,100	--	1.26	J	21.1	--
Cell 17	Vadose	Cell 17-Square45-S-3-4-221206	12/06/2022	1.87	U	2.82	J	208	--	0.175	U	0.0789	U	1.89	J	0.945	J	1,740	--	1.17	J	18.2	--
Cell 17	Vadose	Cell 17-Square199-S-3-4-221206	12/06/2022	1.87	U	2.19	J	218	--	0.175	U	0.0789	U	1.73	J	1.09	J	1,780	--	1.39	J	19.1	--
Cell 17	Vadose	Cell 17-Square203-S-3-4-221206	12/06/2022	1.84	U	2.45	J	227	--	0.172	U	0.0776	U	1.14	J	0.92	J	1,110	--	0.859	J	9.55	--
Cell 18	Vadose	Cell 18-Square83-S-3-4-221206	12/06/2022	1.84	U	2.52	J	55.6	--	0.334	J	0.0776	U	7.00	--	4.22	--	6,740	--	4.35	--	100	--
Cell 18	Vadose	Cell 18-Square92-S-3-4-221206	12/06/2022	1.78	U	1.54	J	54.8	--	0.234	J	0.075	U	5.29	--	2.87	J	4,630	--	2.88	--	67.3	--
Cell 18	Vadose	Cell 18-Square133-S-3-4-221206	12/06/2022	1.84	U	3.13	J	307	--	0.172	U	0.0776	U	1.77	J	1.16	J	1,430	--	0.893	J	14.8	--
Cell 18	Vadose	Cell 18-Square181-S-3-4-221206	12/06/2022	1.78	U	3.39	--	285	--	0.167	U	0.075	U	1.97	J	1.58	J	1,720	--	1.14	J	15.2	--
Cell 19	Vadose	Cell19-Square82-S-3-4-221205	12/05/2022	0.918	U	4.23	--	420	--	0.196	J	0.134	J	2.83	J	2.55	J	2,160	--	2.17	--	24.7	--
Cell 19	Vadose	Cell19-Square84-S-3-4-221205	12/05/2022	0.934	U	4.74	--	377	--	0.208	J	0.0789	U	3.94	--	1.78	J	3,510	--	2.32	--	28.1	--
Cell 19	Vadose	Cell19-Square93-S-3-4-221205	12/05/2022	0.918	U	6.33	--	738	--	0.191	J	0.0776	U	3.71	--	2.63	J	3,050	--	2.12	--	27.3	--
Cell 19	Vadose	Cell19-Square204-S-3-4-221205	12/05/2022	0.934	U	5.31	--	491	--	0.175	U	0.0789	U	2.69	J	2.17	J	2,160	--	1.22	J	22.8	--
Cell 20	Vadose	Cell20-Square102-S-3-4-221205	12/05/2022	0.968	U	2.35	J	225	--	0.182	U	0.0818	U	0.935	J	0.704	J	720	--	0.625	J	10.1	--
Cell 20	Vadose	Cell20-Square179-S-3-4-221205	12/05/2022	0.986	U	3.51	J	200	--	0.189	--	0.0833	U	2.05	J	1.55	J	1,680	--	1.44	J	12.1	--
Cell 20	Vadose	Cell20-Square187-S-3-4-221205	12/05/2022	0.934	U	3.61	--	292	--	0.175	U	0.0789	U	3.24	J	1.81	J	2,770	--	1.5	J	18.7	--
Cell 20	Vadose	Cell20-Square204-S-3-4-221205	12/05/2022	1.00	U	5.91	--	177	--	0.189	U	0.0849	U	2.22	J	1.61	J	1,560	--	0.952	J	14.4	--
Cell 21	Vadose	Cell 21-Square47-S-3-4-221206	12/06/2022	1.87	U	3.14	J	216	--	0.175	U	0.0789	U	1.63	J	1.26	J	1,520	--	0.984	J	14.5	--
Cell 21	Vadose	Cell 21-Square61-S-3-4-221206	12/06/2022	1.84	U	2.99	J	260	--	0.172	U	0.0776	U	1.55	J	1.01	J	1,220	--	1.02	J	15.3	--
Cell 21	Vadose	Cell 21-Square76-S-3-4-221206	12/06/2022	1.84	U	4.21	--	265	--	0.172	U	0.0776	U	2.31	J	2.43	J	1,600	--	0.922	J	15.9	--
Cell 21	Vadose	Cell 21-Square155-S-3-4-221206	12/06/2022	1.81	U	3.24	J	314	--	0.169	U	0.0763	U	1.82	J	1.2	J	1,620	--	1.25	J	15.6	--
Cell 22	Vadose	Cell 22-Square40-S-3-4-221207	12/06/2022	0.951	U	2.93	J	264	--	0.179	U	0.0804	U	1.12	J	1.26	J b	969	--	0.86	J	9.58	--
Cell 22	Vadose	Cell 22-Square49-S-3-4-221207	12/07/2022	1.02	U	3.74	J	498	--	0.192	U	0.0865	U	1.97	J	1.43	J b	1,630	--	1.31	J	16.1	--
Cell 22	Vadose	Cell 22-Square158-S-3-4-221207	12/07/2022	1.00	U	2.96	J	774	--	0.279	J	0.0849	U	4.54	--	2.23	J b	4,640	--	2.8	--	46.3	--
Cell 22	Vadose	Cell 22-Square191-S-3-4-221207	12/07/2022	1.07	U	4.05	--	293	--	0.2	U	0.09	U	1.48	J	1.66	J b	1,230	--	0.884	J	10.8	--
Cell 23	Vadose	Cell 23-Square88-S-3-4-221207	12/07/2022	1.04	U	2.25	J	180	--	0.196	U	0.0887	J	1.92	J	1.47	J b	1,740	--	1.98	--	24.4	--
Cell 23	Vadose	Cell 23-Square112-S-3-4-221207	12/07/2022	1.04	U	3.53	J	552	--	0.196	U	0.0882	U	1.83	J	3.02	J b	1,620	--	1.11	J	15.3	--
Cell 23	Vadose	Cell 23-Square133-S-3-4-221207	12/07/2022	0.968	U	2.32	J	177	--	0.187	J	0.0818	U	3.21	J	2.27	J b	2,830	--	2.17	--	29.3	--
Cell 23	Vadose	Cell 23-Square209-S-3-4-221207	12/07/2022	1.00	U	5.23	--	445	--	0.189	U	0.0849	U	1.35	J	1.94	J b	1,210	--	0.884	J	11.5	--
Cell 24	Vadose	Cell 24-Square25-S-3-4-220812	12/07/2022	1.04	U	3.02	J	117	--	0.196	U	0.0882	U	1.37	J	0.978	J	1,130	--	0.75	J	15.5	--
Cell 24	Vadose	Cell 24-Square45-S-3-4-220812	12/08/2022	1.02	U	3.58	J	414	--	0.192	U	0.0865	U	3.22	J	2.00	J	2,490	--	1.39	J	26.2	--
Cell 24	Vadose	Cell 24-Square167-S-3-4-220812	12/08/2022	0.968	U	2.31	J	113	--	0.211	J	0.107	J	2.6	J	1.16	J	2,030	--	1.88	--	42.5	--
Cell 24	Vadose	Cell 24-Square179-S-3-4-220812	12/08/2022	1.04	U	2.18	J	150	--	0.196	U	0.0882	U	1.94	J	1.32	J	1,580	--	1.19	J	20.6	--
Cell 25	Vadose	Cell 25-Square88-S-3-4-221206	12/08/2022	1.78	U	1.55	J	96.1	--	0.177	J	0.0875	J	3.36	--	1.41	J	2,780	--	1.77	--	25.1	--
Cell 25	Vadose	Cell 25-Square114-S-3-4-221207	12/06/2022	1.02	U	1.73	J	169	--	0.261	J	0.0865	U	4.64	--	2.48	J b	4,120	--	2.97	--	37.9	--
Cell 25	Vadose	Cell 25-Square179-S-3-4-221207	12/07/2022	1.07	U	2.28	J	367	--	0.2	U	0.090	U	2.14	J	1.88	J b	1,660	--	1.2	J	17	--
Cell 25	Vadose	Cell 25-Square187-S-3-4-221207	12/07/2022	1.04	U	2.53	J	36.9	--	0.443	J	0.0882	U	6.63	--	2.65	J b	6,710	--	4.99	--	32	--
Cell 26	Vadose	Cell 26-Square79-S-3-4-221207	12/07/2022	1.02	U	2.72	J	467	--	0.192	U	0.0865	U	1.57	J	2.37	J b	1,390	--	1.05	J	14.1	--
Cell 26	Vadose	Cell 26-Square115-S-3-4-221207	12/07/2022	1.02	U	2.66	J	310	--	0.192	U	0.0865	U	2	J	1.51	J b	1,690	--	1.74	J	19.2	--
Cell 26	Vadose	Cell 26-Square129-S-3-4-221207	12/07/2022	0.934	U	1.73	J	79	--	0.344	J	0.0789	U	5.14	--	3.93	b	4,790	--	3.85	--	82.5	--
Cell 26	Vadose	Cell 26-Square198-S-3-4-221207	12/07/2022	1.07	U	2.75	J	332	--	0.2	U	0.090	U	1.65	J	1.43	J b	1,360	--	1.55	J	14.8	--

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Table 25
December 2022 5-Year Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	Mercury		Selenium		Silver		Thallium		Uranium		Zinc	
		Method	7471A		6010B		6010B		6010B		6020A		6010B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	0.0322		0.279		0.723		1.93		0.686		12.9	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 1	Vadose	Cell-1-Square11-S-3-4-2211214	12/14/2022	0.00814	U	0.136	U	0.14	U	0.167	U	0.397	J	4.78	--
Cell 1	Vadose	Cell 1-Square36-S-3-4-221214	12/14/2022	0.00877	U	0.190	J	0.133	U	0.158	U	0.633	J	8.87	--
Cell 1	Vadose	Cell 1-Square89-S-3-4-221214	12/14/2022	0.00895	U	0.129	U	0.133	U	0.158	U	0.398	J	3.62	--
Cell 1	Vadose	Cell-1-Square156-S-3-4-221214	12/14/2022	0.00829	U	0.134	U	0.138	U	0.164	U	0.384	J	5.00	--
Cell 2	Vadose	Cell 2-Square11-S-3-4-221214	12/14/2022	0.00814	U	0.208	J	0.138	U	0.164	U	0.266	J	9.39	--
Cell 2	Vadose	Cell 2-Square40-S-3-4-221214	12/14/2022	0.00895	U	0.134	J	0.133	U	0.158	U	0.297	J	5.2	--
Cell 2	Vadose	Cell 2-Square65-S-3-4-221214	12/14/2022	0.00906	J	0.165	J	0.138	U	0.164	U	0.406	J	5.38	--
Cell 2	Vadose	Cell 2-Square146-S-3-4-221214	12/14/2022	0.00877	U	0.196	J	0.14	U	0.167	U	0.388	J	9.23	--
Cell 3	Vadose	Cell 3-Square78-S-3-4-221214	12/14/2022	0.00861	U	0.203	J	0.143	U	0.17	U	0.19	J	9.88	--
Cell 3	Vadose	Cell 3-Square121-S-3-4-221214	12/14/2022	0.00861	U	0.168	J	0.14	U	0.167	U	0.279	J	6.8	--
Cell 3	Vadose	Cell 3-Square131-S-3-4-221214	12/14/2022	0.00785	U	0.391	J	0.138	U	0.164	U	0.443	J	8.21	--
Cell 3	Vadose	Cell 3-Square154-S-3-4-221214	12/14/2022	0.00844	U	0.188	J	0.136	U	0.161	U	0.283	J	5.95	--
Cell 4	Vadose	Cell 4-Square38-S-3-4-221214	12/14/2022	0.00814	U	0.192	J	0.14	U	0.167	U	0.348	J	7.92	--
Cell 4	Vadose	Cell 4-Square115-S-3-4-221214	12/14/2022	0.00772	U	0.192	J	0.133	U	0.158	U	0.0983	J	8.71	--
Cell 4	Vadose	Cell 4-Square130-S-3-4-221214	12/14/2022	0.00802	U H	0.293	U	0.151	U	0.179	U	0.0945	U	1.11	U
Cell 4	Vadose	Cell 4-Square202-S-3-4-221214	12/14/2022	0.00829	U	0.129	U	0.133	U	0.158	U	0.343	J	8.29	--
Cell 5	Vadose	Cell 5-Square14-S-3-4-221213	12/13/2022	0.00844	U	0.238	J	0.138	U	0.164	U	0.495	J	4.83	--
Cell 5	Vadose	Cell 5-Square121-S-3-4-221213	12/13/2022	0.00829	U	0.134	U	0.138	U	0.164	U	0.641	J	6.5	--
Cell 5	Vadose	Cell 5-Square167-S-3-4-221213	12/13/2022	0.00814	U	0.131	U	0.136	U	0.161	U	0.386	J	6.25	--
Cell 5	Vadose	Cell 5-Square187-S-3-4-221213	12/13/2022	0.00814	U	0.18	J	0.133	U	0.158	U	0.486	J	6.42	--
Cell 6	Vadose	Cell 6-Square25-S-3-4-221213	12/13/2022	0.00746	U	0.205	J	0.133	U	0.158	U	0.233	J	4.94	--
Cell 6	Vadose	Cell 6-Square111-S-3-4-221213	12/13/2022	0.00861	U	0.218	J	0.133	U	0.158	U	0.29	J	9.91	--
Cell 6	Vadose	Cell 6-Square203-S-3-4-221213	12/13/2022	0.00785	U	0.163	J	0.138	U	0.164	U	0.313	J	7.45	--
Cell 6	Vadose	Cell 6-Square207-S-3-4-221213	12/13/2022	0.00844	U	0.131	U	0.136	U	0.245	J	0.314	J	34	--
Cell 7	Vadose	Cell 7-Square23-S-3-4-221213	12/13/2022	0.00895	U	0.237	J	0.14	U	0.167	U	0.36	J	5.03	--
Cell 7	Vadose	Cell 7-Square35-S-3-4-221213	12/13/2022	0.00861	U	0.289	J	0.14	U	0.167	U	0.245	J	17.7	--
Cell 7	Vadose	Cell 7-Square59-S-3-4-221213	12/13/2022	0.00814	U	0.181	J	0.14	U	0.167	U	0.317	J	2.75	J
Cell 7	Vadose	Cell 7-Square154-S-3-4-221213	12/13/2022	0.00861	U	0.139	J	0.14	U	0.167	U	0.346	J	4.32	--
Cell 8	Vadose	Cell 8-Square91-S-3-4-221213	12/13/2022	0.00877	U	0.131	U	0.136	U	0.161	U	0.267	J	6.08	--
Cell 8	Vadose	Cell 8-Square123-S-3-4-221213	12/13/2022	0.00877	U	0.131	U	0.136	U	0.161	U	0.452	J	6.33	--
Cell 8	Vadose	Cell 8-Square162-S-3-4-221213	12/13/2022	0.00844	U	0.163	J	0.14	U	0.167	U	0.404	J	5.16	--
Cell 8	Vadose	Cell 8-Square171-S-3-4-221212	12/12/2022	0.00877	U	0.156	J	0.14	U	0.167	U	0.396	J	4.31	--
Cell 9	Vadose	Cell 9-Square119-S-3-4-221212	12/12/2022	0.0106	J	0.211	J	0.136	U	0.161	U	0.453	J	5.48	--
Cell 9	Vadose	Cell 9-Square135-S-3-4-221212	12/12/2022	0.00829	U	0.161	J	0.136	U	0.161	U	0.508	J	9.32	--
Cell 9	Vadose	Cell 9-Square186-S-3-4-221212	12/12/2022	0.00844	U	0.13	J	0.133	U	0.158	U	0.364	J	9.17	--
Cell 9	Vadose	Cell 9-Square188-S-3-4-221212	12/12/2022	0.011	J	0.143	J	0.138	U	0.164	U	0.425	J	5.53	--
Cell 10	Vadose	Cell 10-Square13-S-3-4-221212	12/12/2022	0.00895	U	0.145	J	0.138	U	0.164	U	0.588	J	5.38	--
Cell 10	Vadose	Cell 10-Square83-S-3-4-221212	12/12/2022	0.0102	J	0.247	J	0.14	U	0.167	U	0.339	J	6.36	--
Cell 10	Vadose	Cell 10-Square150-S-3-4-221212	12/12/2022	0.00844	U	0.183	J	0.136	U	0.161	U	0.416	J	6.13	--
Cell 10	Vadose	Cell 10-Square164-S-3-4-221212	12/12/2022	0.00951	J	0.221	J	0.138	U	0.164	U	0.39	J	6.68	--
Cell 11	Vadose	Cell 11-Square66-S-3-4-221212	12/12/2022	0.0101	J	0.256	J	0.133	U	0.158	U	0.17	J	15.1	--
Cell 11	Vadose	Cell 11-Square91-S-3-4-221212	12/12/2022	0.01	J	0.329	J	0.138	U	0.164	U	0.26	J	13.6	--
Cell 11	Vadose	Cell 11-Square94-S-3-4-221212	12/12/2022	0.00895	J	0.169	J	0.133	U	0.158	U	0.326	J	6.84	--
Cell 11	Vadose	Cell 11-Square135-S-3-4-221212	12/12/2022	0.00829	U	0.189	J	0.138	U	0.164	U	0.272	J	3.53	--
Cell 12	Vadose	Cell 12-Square15-S-3-4-221212	12/12/2022	0.00923	J	0.147	J	0.136	U	0.161	U	0.297	J	5.76	--
Cell 12	Vadose	Cell 12-Square28-S-3-4-221212	12/12/2022	0.00829	U	0.226	J	0.133	U	0.158	U	0.297	J	3.84	--
Cell 12	Vadose	Cell 12-Square38-S-3-4-221212	12/12/2022	0.00895	U	0.136	U	0.14	U	0.167	U	0.456	J	3.16	J
Cell 12	Vadose	Cell 12-Square83-S-3-4-221212	12/12/2022	0.00877	U	0.129	U	0.133	U	0.158	U	0.299	J	5.46	--
Cell 13	Vadose	Cell 13-Square46-S-3-4-220812	12/08/2022	0.00861	U	0.2	J	0.151	U	0.179	U	0.399	J	4.61	--
Cell 13	Vadose	Cell 13-Square104-S-3-4-220812	12/08/2022	0.00877	U	0.205	J	0.154	U	0.183	U	0.574	J	5.63	--
Cell 13	Vadose	Cell 13-Square191-S-3-4-220812	12/08/2022	0.00758	U	0.242	J	0.16	U	0.19	U	0.397	J	7.7	--
Cell 13	Vadose	Cell 13-Square197-S-3-4-220812	12/08/2022	0.00895	U	0.168	J	0.157	U	0.186	U	0.425	J	5.18	--
Cell 14	Vadose	Cell 14-Square20-S-3-4-220812	12/08/2022	0.00877	U	0.191	J	0.151	U	0.179	U	0.374	J	5.21	--
Cell 14	Vadose	Cell 14-Square47-S-3-4-220812	12/08/2022	0.00844	U	0.138	U	0.143	U	0.17	U	0.397	J	5.71	--
Cell 14	Vadose	Cell 14-Square50-S-3-4-220812	12/08/2022	0.00772	U	0.242	J	0.154	U	0.183	U	0.264	J	12.4	--
Cell 14	Vadose	Cell 14-Square121-S-3-4-220812	12/08/2022	0.00814	U	0.238	J	0.151	U	0.179	U	0.313	J	5.35	--
Cell 15	Vadose	Cell 15-Square20-S-3-4-220812	12/08/2022	0.00785	U	0.152	U	0.157	U	0.186	U	0.375	J	4.49	--

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Table 25
December 2022 5-Year Vadose Zone Soil Analytical Results
2022 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	Mercury		Selenium		Silver		Thallium		Uranium		Zinc	
		Method	7471A		6010B		6010B		6010B		6020A		6010B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	0.0322		0.279		0.723		1.93		0.686		12.9	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 15	Vadose	Cell 15-Square76-S-3-4-220812	12/08/2022	0.00758	U	0.141	U	0.145	U	0.173	U	0.344	J	5.6	--
Cell 15	Vadose	Cell 15-Square146-S-3-4-220812	12/08/2022	0.00785	U	0.136	U	0.14	U	0.167	U	0.423	J	4.74	--
Cell 15	Vadose	Cell 15-Square153-S-3-4-220812	12/08/2022	0.00746	U	0.129	U	0.133	U	0.158	U	0.383	J	6.27	--
Cell 16	Vadose	Cell 16-Square13-S-3-4-220912	12/09/2022	0.00861	U	0.209	J	0.138	U	0.164	U	0.305	J	5.96	--
Cell 16	Vadose	Cell 16-Square75-S-3-4-220912	12/09/2022	0.00896	J	0.139	J	0.136	U	0.161	U	0.314	J	6.9	--
Cell 16	Vadose	Cell 16-Square88-S-3-4-220912	12/09/2022	0.00844	U	0.134	U	0.138	U	0.164	U	0.417	J	3.68	--
Cell 16	Vadose	Cell 16-Square135-S-3-4-220912	12/09/2022	0.00746	U	0.268	J	0.14	U	0.167	U	0.316	J	7.57	--
Cell 17	Vadose	Cell 17-Square6-S-3-4-221206	12/06/2022	0.00785	U	0.607	J	0.133	U	0.158	U	0.228	J	7.91	--
Cell 17	Vadose	Cell 17-Square45-S-3-4-221206	12/06/2022	0.00772	U	0.272	U	0.14	U	0.167	U	0.351	J	5.59	--
Cell 17	Vadose	Cell 17-Square199-S-3-4-221206	12/06/2022	0.00861	U	0.389	J	0.14	U	0.167	U	0.293	J	7.8	--
Cell 17	Vadose	Cell 17-Square203-S-3-4-221206	12/06/2022	0.00799	U	0.267	U	0.138	U	0.164	U	0.247	J	4.38	--
Cell 18	Vadose	Cell 18-Square83-S-3-4-221206	12/06/2022	0.00829	U	1.36	J	0.138	U	0.164	U	0.194	J	19.4	--
Cell 18	Vadose	Cell 18-Square92-S-3-4-221206	12/06/2022	0.00785	U	1.21	J	0.133	U	0.158	U	0.193	J	14.9	--
Cell 18	Vadose	Cell 18-Square133-S-3-4-221206	12/06/2022	0.00829	U	0.461	J	0.138	U	0.164	U	0.356	J	5.5	--
Cell 18	Vadose	Cell 18-Square181-S-3-4-221206	12/06/2022	0.00785	U	0.472	J	0.133	U	0.158	U	0.339	J	10.2	--
Cell 19	Vadose	Cell19-Square82-S-3-4-221205	12/05/2022	0.00845	J	0.263	J	0.138	U	0.164	U	0.669	J	10.4	--
Cell 19	Vadose	Cell19-Square84-S-3-4-221205	12/05/2022	0.00861	U	0.212	J	0.140	U	0.167	U	0.568	J	13.1	--
Cell 19	Vadose	Cell19-Square93-S-3-4-221205	12/05/2022	0.00799	U	0.239	J	0.138	U	0.164	U	0.674	J	10.5	--
Cell 19	Vadose	Cell19-Square204-S-3-4-221205	12/05/2022	0.00785	U	0.144	J	0.140	U	0.167	U	0.71	J	6.93	--
Cell 20	Vadose	Cell20-Square102-S-3-4-221205	12/05/2022	0.00844	U	0.141	U	0.145	U	0.173	U	0.244	J	3.48	J
Cell 20	Vadose	Cell20-Square179-S-3-4-221205	12/05/2022	0.00877	U	0.158	J	0.148	U	0.176	U	0.282	J	4.79	--
Cell 20	Vadose	Cell20-Square187-S-3-4-221205	12/05/2022	0.00861	U	0.152	J	0.140	U	0.167	U	0.351	J	9.07	--
Cell 20	Vadose	Cell20-Square204-S-3-4-221205	12/05/2022	0.00929	**J**	0.146	U	0.151	U	0.179	U	0.562	J	6.83	--
Cell 21	Vadose	Cell 21-Square47-S-3-4-221206	12/06/2022	0.00877	U	0.272	U	0.14	U	0.167	U	0.335	J	4.91	--
Cell 21	Vadose	Cell 21-Square61-S-3-4-221206	12/06/2022	0.00895	U	0.383	J	0.138	U	0.164	U	0.391	J	4.53	--
Cell 21	Vadose	Cell 21-Square76-S-3-4-221206	12/06/2022	0.00861	U	0.426	J	0.138	U	0.164	U	0.475	J	7.26	--
Cell 21	Vadose	Cell 21-Square155-S-3-4-221206	12/06/2022	0.00861	U	0.318	J	0.136	U	0.161	U	0.339	J	7.84	--
Cell 22	Vadose	Cell 22-Square40-S-3-4-221207	12/06/2022	0.00895	U	0.138	U	0.143	U	0.17	U	0.354	J	5.82	--
Cell 22	Vadose	Cell 22-Square49-S-3-4-221207	12/07/2022	0.00877	U	0.149	U	0.154	U	0.183	U	0.519	J	5.07	--
Cell 22	Vadose	Cell 22-Square158-S-3-4-221207	12/07/2022	0.00895	U	0.169	J	0.151	U	0.179	U	0.392	J	12.7	--
Cell 22	Vadose	Cell 22-Square191-S-3-4-221207	12/07/2022	0.00895	U	0.161	J	0.16	U	0.19	U	0.478	J	6.18	--
Cell 23	Vadose	Cell 23-Square88-S-3-4-221207	12/07/2022	0.0114	J	0.238	J	0.157	U	0.186	U	0.319	J	6.25	--
Cell 23	Vadose	Cell 23-Square112-S-3-4-221207	12/07/2022	0.0104	J	0.152	U	0.157	U	0.186	U	0.531	J	5.5	--
Cell 23	Vadose	Cell 23-Square133-S-3-4-221207	12/07/2022	0.0092	J	0.251	J	0.145	U	0.173	U	0.368	J	8.98	--
Cell 23	Vadose	Cell 23-Square209-S-3-4-221207	12/07/2022	0.00949	J	0.146	U	0.151	U	0.179	U	0.579	J	3.69	--
Cell 24	Vadose	Cell 24-Square25-S-3-4-220812	12/07/2022	0.00813	J	0.152	U	0.157	U	0.186	U	0.282	J	3.86	J
Cell 24	Vadose	Cell 24-Square45-S-3-4-220812	12/08/2022	0.00861	U	0.149	U	0.154	U	0.183	U	0.319	J	6.79	J
Cell 24	Vadose	Cell 24-Square167-S-3-4-220812	12/08/2022	0.00861	U	0.22	J	0.32	J	0.173	U	0.31	J	8.73	--
Cell 24	Vadose	Cell 24-Square179-S-3-4-220812	12/08/2022	0.00861	U	0.219	J	0.157	U	0.186	U	0.322	J	4.65	--
Cell 25	Vadose	Cell 25-Square88-S-3-4-221206	12/08/2022	0.00861	U	0.841	J	0.133	U	0.158	U	0.227	J	8.78	--
Cell 25	Vadose	Cell 25-Square114-S-3-4-221207	12/06/2022	0.00844	U	0.2	J	0.154	U	0.183	U	0.188	J	11.6	--
Cell 25	Vadose	Cell 25-Square179-S-3-4-221207	12/07/2022	0.0103	J	0.155	U	0.16	U	0.19	U	0.361	J	8.82	--
Cell 25	Vadose	Cell 25-Square187-S-3-4-221207	12/07/2022	0.00865	J	0.168	J	0.157	U	0.186	U	0.155	J	13.8	--
Cell 26	Vadose	Cell 26-Square79-S-3-4-221207	12/07/2022	0.00895	U	0.149	U	0.154	U	0.183	U	0.471	J	6.28	--
Cell 26	Vadose	Cell 26-Square115-S-3-4-221207	12/07/2022	0.00799	U	0.182	J	0.154	U	0.183	U	0.424	J	7.04	--
Cell 26	Vadose	Cell 26-Square129-S-3-4-221207	12/07/2022	0.00861	U	0.178	J	0.14	U	0.167	U	0.315	J	15.4	--
Cell 26	Vadose	Cell 26-Square198-S-3-4-221207	12/07/2022	0.0113	J	0.155	U	0.16	U	0.19	U	0.399	J	4.69	--

Released to Imaging: 1/29/2025 3:31:29 PM

Notes:

1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(3) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the 2022 background soil concentration (Arcadis 2021).

Acronyms and Abbreviations:

-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

Qualifiers:

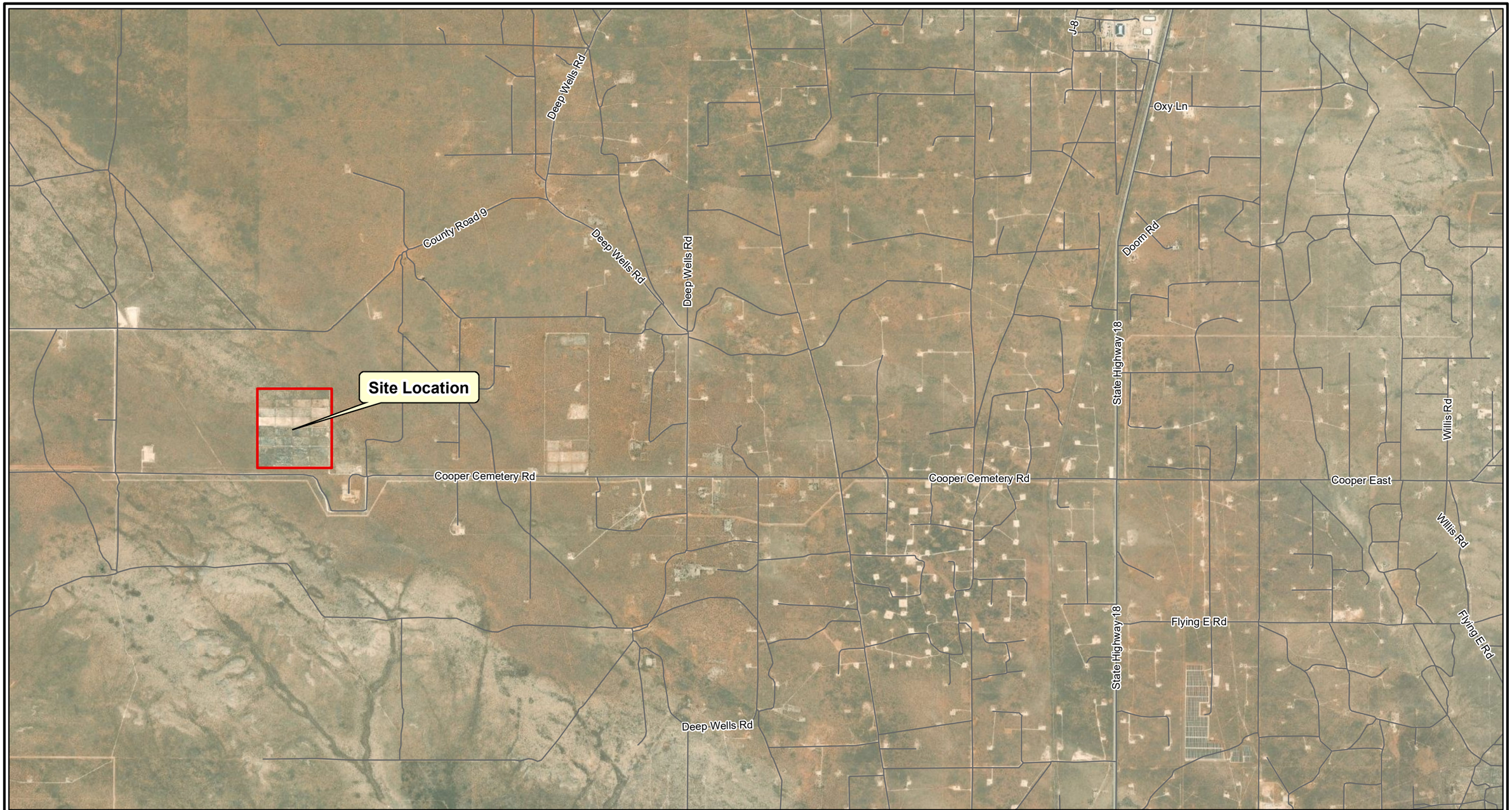
B = The compound was found in the blank and sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

Reference:

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

Received by OCD: 7/18/2023 11:20:27 AM

Figures



PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2023-03\FIGURE-1_JAL LANDFARM_2022.MXD SAVED: 4/19/2023 BY: AVI00976

LEGEND

Landfarm Boundary



0 3,000 6,000

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM2-0012
LEA COUNTY, NEW MEXICO

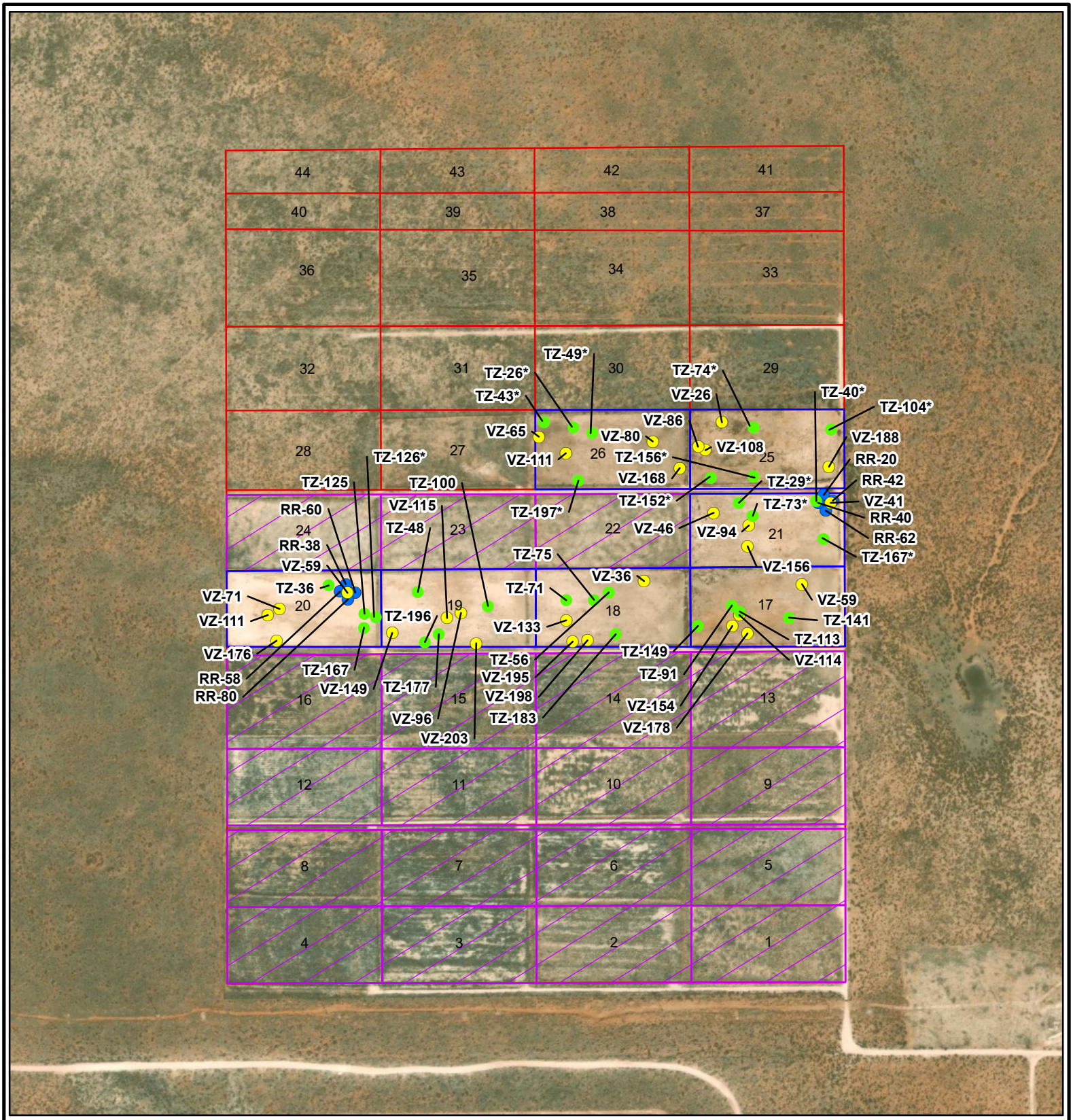
2022 ANNUAL REPORT

SITE LOCATION MAP

ARCADIS

FIGURE 1

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2022-09\FIG_2_SAMPLING_LOCATIONS_JUNE_2022.MXD SAVED: 4/17/2023 BY: AVI00976



LEGEND

- Release Response Sample Locations (July 2022)
- Vadose Zone Sample Locations (June 2022)
- Treatment Zone Sample Locations (June 2022)
- * 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 NM-02-0012
LEA COUNTY, NEW MEXICO

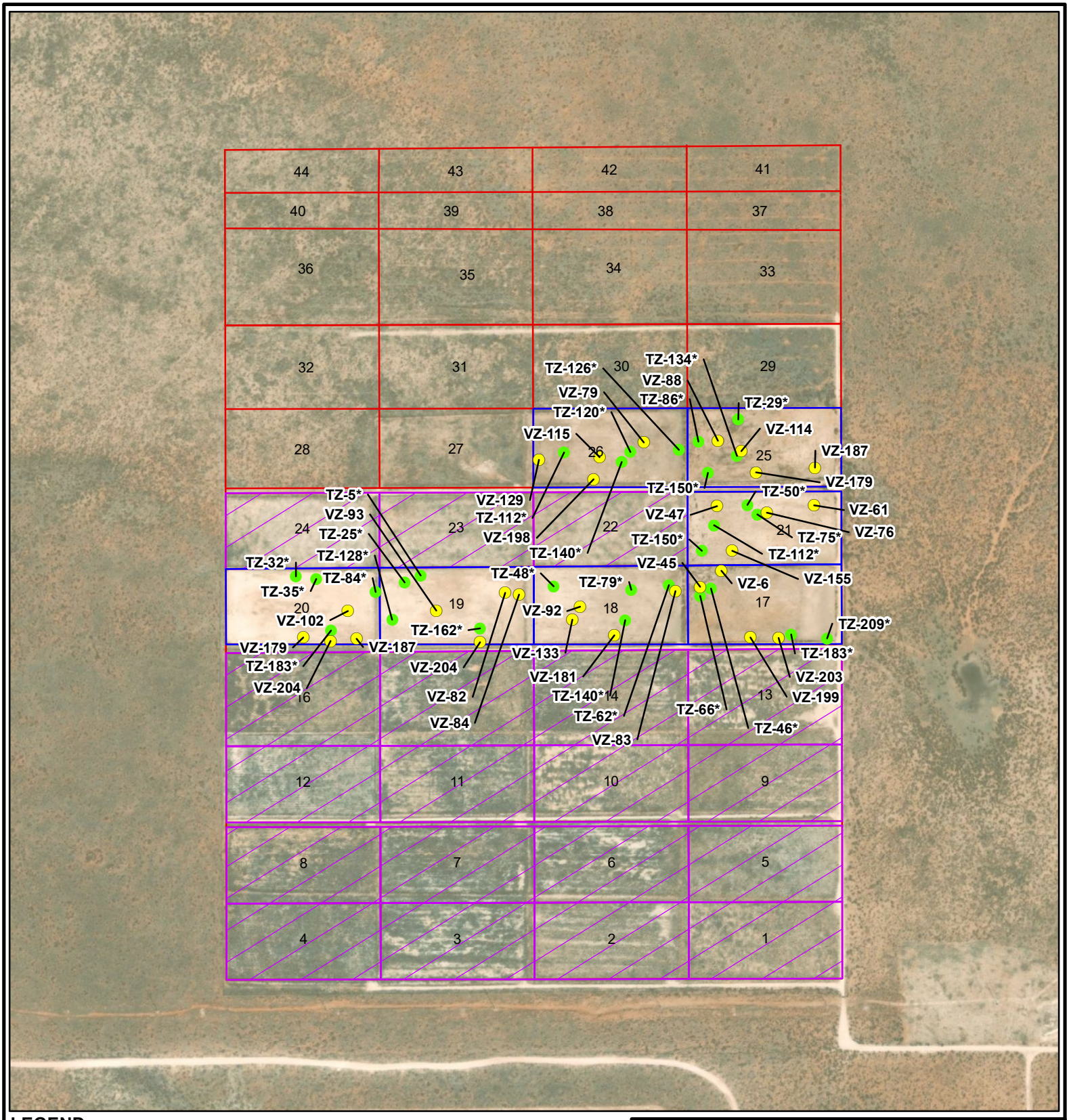
2022 ANNUAL REPORT

JUNE 2022 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS

FIGURE
2

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2023-03\FIG_3_SAMPLING_LOCATIONS_DECEMBER_2022.MXD SAVED: 4/11/2023 BY: VMN1306



LEGEND

- Treatment Zone Sample Locations (December 2022)
- Vadose Zone Sample Locations (December 2022)
- * The sample location is approximate.
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 560 1,120

SCALE IN FEET

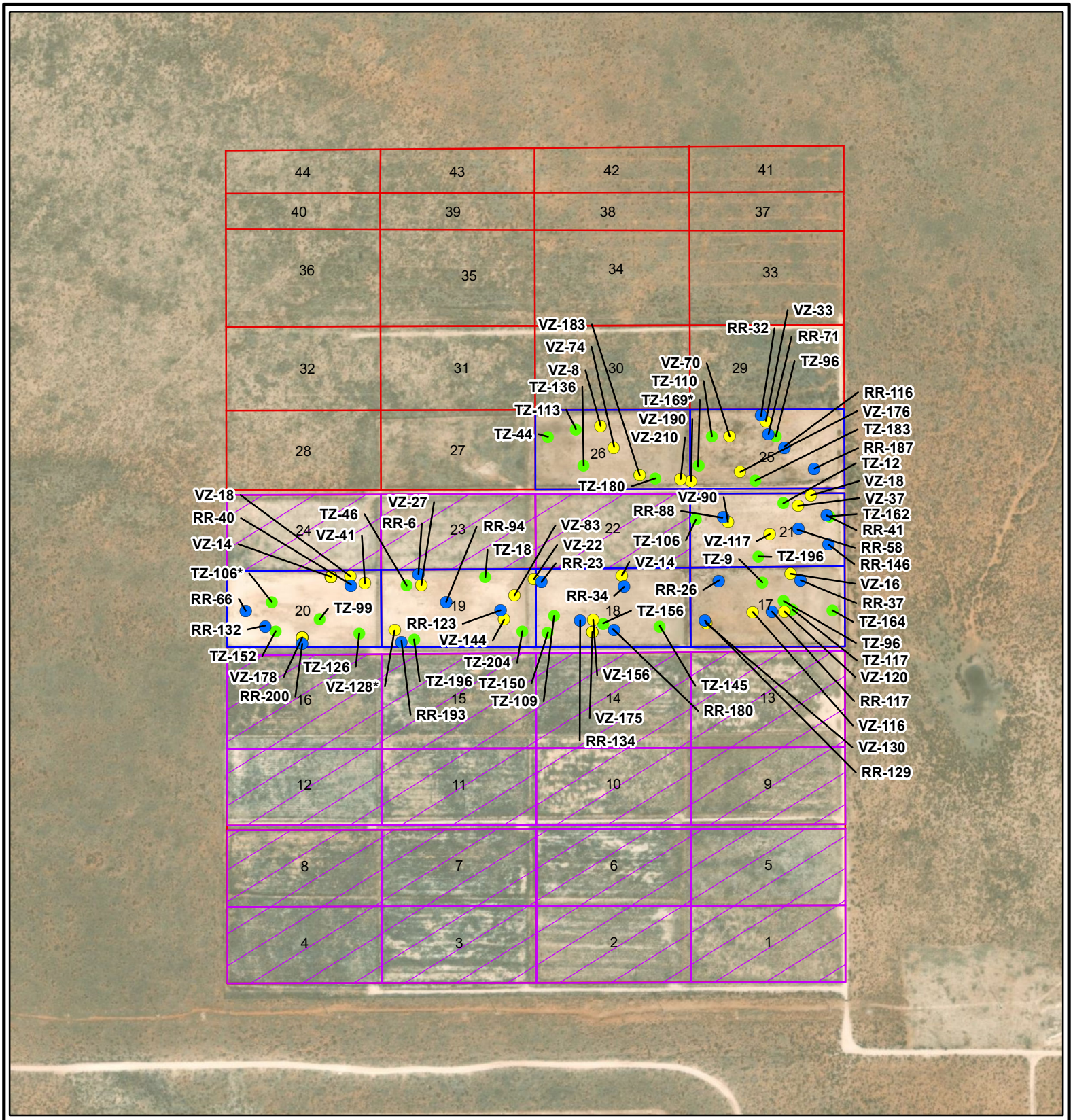
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO
2022 ANNUAL REPORT

DECEMBER 2022 SAMPLE LOCATIONS

ARCADIS

FIGURE
3

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2023-04\FIG_4_DEC2021_RELEASESAMPLES.MXD SAVED: 4/14/2023 BY: AVI00976



LEGEND

- Release Response Sample Locations (January 2022)
- Vadose Zone Sample Locations (December 2021)
- Treatment Zone Sample Locations (December 2021)
- * The sample location is approximate.
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

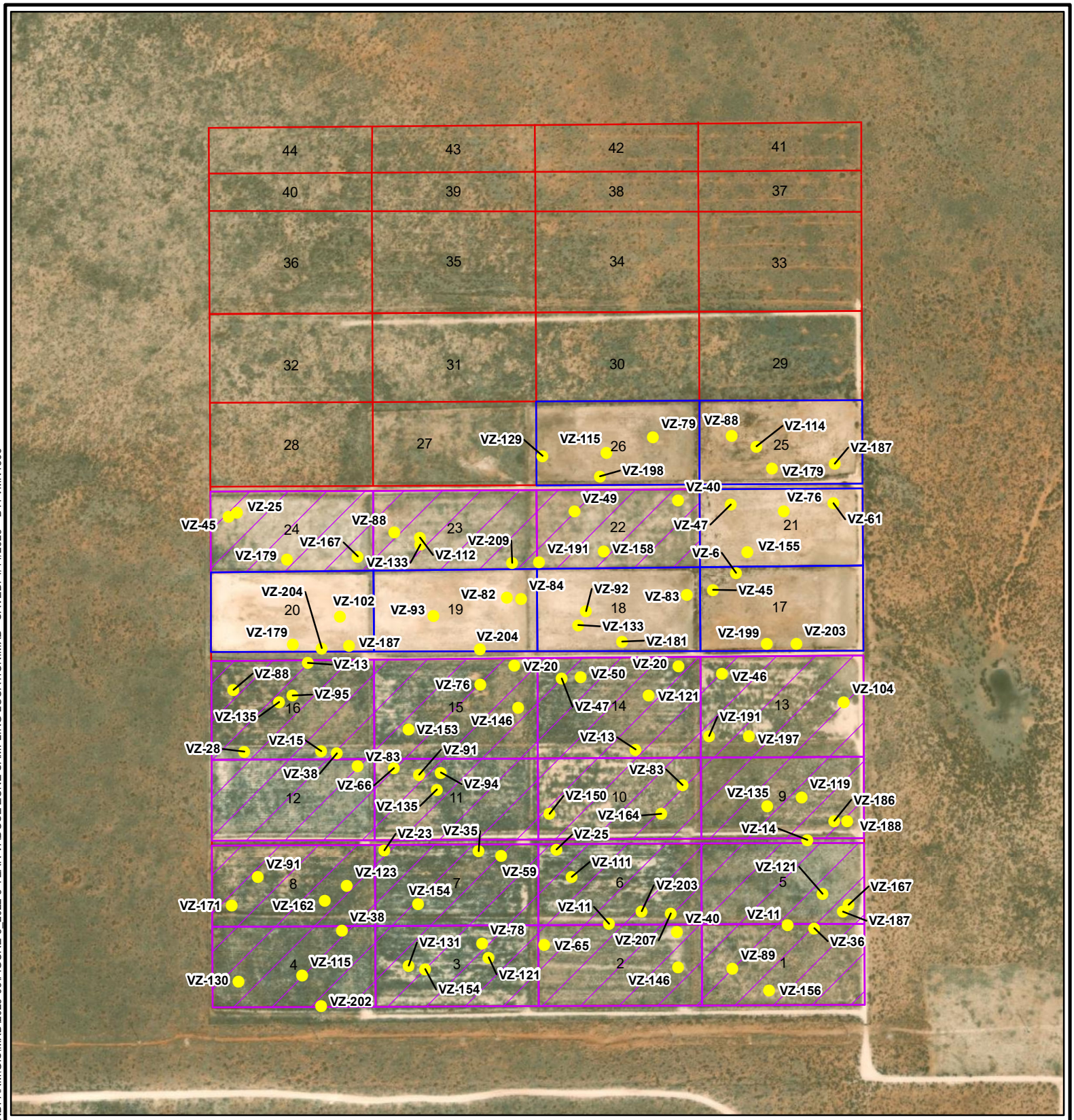
0 560 1,120
SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO
2022 ANNUAL REPORT

DECEMBER 2021 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS

FIGURE
4



LEGEND

- Five-Year Vadose Zone Sample Locations (December 2022)
- Active Landfarm Cell
- Inactive Landfarm Cell
- Developed Cell - Inactive

0 300 600

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
JAL LANDFARM NM-02-0012
LEA COUNTY, NEW MEXICO
2022 ANNUAL REPORT

FIVE-YEAR VADOSE ZONE MONITORING SAMPLE LOCATIONS

ARCADIS

FIGURE 5

PATH: T:_ENVCHEVRON_JAL-LANDFARM\GIS\MXD\2023-03\FIGURE-5_2022 5-YEAR VADOSE ZONE SAMPLING LOCATION.MXD SAVED: 4/11/2023 BY: VMN1306

Appendix A

Laboratory Reports

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19619-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:44:17 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19619-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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
H	Sample was prepped or analyzed beyond the specified holding time
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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
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"

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19619-1

Receipt
The samples were received on 1/25/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: The surrogate recovery for the laboratory control sample duplicate (LCSD) associated with preparation batch 860-39007 and analytical batch 860-39132 was outside the upper control limits.

Method 8270D: The surrogate recovery for the blank associated with preparation batch 860-39007 and analytical batch 860-39132 was outside the upper control limits.

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

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1 MS) and (860-19619-F-1 MSD) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1 MS) and (860-19619-F-1 MSD). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell17-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (860-19619-F-1-B MS) and (860-19619-F-1-C MSD) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell17-Square 37-S-3-4-220124 (860-19619-1) and Cell17-Square 117-S-3-4-220124 (860-19619-2). Method PFC_Leach/PFC.

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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-Square 37-S-3-4-220124 (860-19619-1), Cell17-Square 117-S-3-4-220124 (860-19619-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 — Lab Sample ID: 860-19619-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.4		10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	16.0		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.35	J	5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.630	J	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	16.6		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	76.7		10.2	4.39	mg/Kg	1		9056A	Total/NA
Perchlorate	0.162	J	0.469	0.0774	ug/Kg	1		6860	Total/NA
Arsenic	3.26	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	153		3.77	0.327	mg/Kg	10		6020A	Total/NA
Beryllium	0.189	J	1.89	0.175	mg/Kg	10		6020A	Total/NA
Chromium	4.08		3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.69	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	3710		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	36.8		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	2.44		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.131	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.324	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	10.6		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00490	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	9.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	213		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 117-S-3-4-220124 — Lab Sample ID: 860-19619-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.31		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	2.42	J	5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.601	J	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.91		1.01	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	21.4		10.1	4.38	mg/Kg	1		9056A	Total/NA
Arsenic	3.55	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	167		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	2.61	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	1.38	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	2330		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	17.2		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.48	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Uranium	0.377	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	7.37		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00645	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
pH	9.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	158		10.0	10.0	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. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/27/22 18:31	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/27/22 18:31	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/27/22 18:31	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/27/22 18:31	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/27/22 18:31	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/27/22 18:31	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/27/22 18:31	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/27/22 18:31	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/27/22 18:31	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/27/22 18:31	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/27/22 18:31	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/27/22 18:31	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/27/22 18:31	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/27/22 18:31	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/27/22 18:31	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/27/22 18:31	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/27/22 18:31	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/27/22 18:31	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/27/22 18:31	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/27/22 18:31	1
Tetrachloroethene	0.725	U *	4.90	0.725	ug/Kg			01/27/22 18:31	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/27/22 18:31	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/27/22 18:31	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/27/22 18:31	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/27/22 18:31	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/27/22 18:31	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/27/22 18:31	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/27/22 18:31	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/27/22 18:31	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/27/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 18:31*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 18:31*	*1*
Dibromofluoromethane (Surr)	*92*		*50 - 136*		*01/27/22 18:31*	*1*
4-Bromofluorobenzene (Surr)	*115*		*61 - 142*		*01/27/22 18:31*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 11:08	02/01/22 17:37	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*	*02/01/22 11:08*	*02/01/22 17:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.3	11.7	ug/Kg		02/04/22 15:17	02/08/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*83*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 16:24*	*1*

Method: 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		01/27/22 07:14	01/27/22 23:20	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/27/22 23:20	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:20	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/27/22 23:20	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*	*01/27/22 07:14*	*01/27/22 23:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
2-Fluorophenol	*78*		*25 - 121*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
2,4,6-Tribromophenol	*101*		*19 - 122*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
Nitrobenzene-d5	*82*		*23 - 129*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*01/27/22 07:14*	*01/27/22 23:20*	*1*
p-Terphenyl-d14 (Surr)	*102*		*18 - 137*	*01/27/22 07:14*	*01/27/22 23:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1
Diesel Range Organics (Over C10-C28)	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1
OII Range Organics (Over C28-C36)	20.8	U	49.3	20.8	mg/Kg		01/28/22 11:36	01/29/22 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*01/28/22 11:36*	*01/29/22 02:13*	*1*
o-Terphenyl (Surr)	*85*		*65 - 130*	*01/28/22 11:36*	*01/29/22 02:13*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, beta-	0.473	U	0.833	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Hexachlorocyclohexane, gamma-	0.438	U	0.833	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:10	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:10	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:10*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:10*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:12	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:12*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:12*	*1*

Method: 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	0.0214	U	0.0943	0.0214	mg/Kg		02/05/22 11:25	02/10/22 06:53	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.189	0.0406	mg/Kg		02/05/22 11:25	02/10/22 06:53	1
2,4,6-Trinitrotoluene	0.0290	U	0.0943	0.0290	mg/Kg		02/05/22 11:25	02/10/22 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 06:53*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.4**		10.2	3.60	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrate as N	**16.0**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Fluoride	**4.35**	**J**	5.08	1.02	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrite as N	**0.630**	**J**	1.02	0.0508	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Nitrate Nitrite as N	**16.6**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:37	1
Sulfate	**76.7**		10.2	4.39	mg/Kg		01/25/22 11:00	01/25/22 17:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.162**	**J**	0.469	0.0774	ug/Kg		02/03/22 17:49	02/08/22 18:17	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.209	U H	0.729	0.209	ug/Kg		02/10/22 11:04	02/16/22 11:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.255	U H	0.729	0.255	ug/Kg		02/10/22 11:04	02/16/22 11:39	1
Perfluorooctanesulfonic acid (PFOS)	0.128	U H	0.729	0.128	ug/Kg		02/10/22 11:04	02/16/22 11:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 Lab Sample ID: 860-19619-1

Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 11:39	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 11:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Arsenic	**3.26**	**J**	3.77	0.582	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Barium	**153**		3.77	0.327	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Beryllium	**0.189**	**J**	1.89	0.175	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Chromium	**4.08**		3.77	0.256	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Copper	**1.69**	**J**	3.77	0.246	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Iron	**3710**		18.9	2.21	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Manganese	**36.8**		1.89	0.240	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Lead	**2.44**		1.89	0.183	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Antimony	**0.131**	**J**	1.89	0.112	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Selenium	0.468	U	1.89	0.468	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Thallium	0.225	U	1.89	0.225	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Uranium	**0.324**	**J**	0.943	0.0564	mg/Kg		01/30/22 14:01	02/01/22 21:19	10
Zinc	**10.6**		3.77	0.418	mg/Kg		01/30/22 14:01	02/01/22 21:19	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00490**	**J**	0.0200	0.00384	mg/Kg		01/28/22 08:00	01/28/22 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.4	U	59.3	29.4	ug/Kg		02/07/22 14:39	02/07/22 16:29	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:55	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.4**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**213**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.30**		0.230	0.278	1.00	0.150	pCi/g	02/07/22 10:12	02/28/22 09:47	1
Radium-228	0.0739	U	0.181	0.181		0.491	pCi/g	02/07/22 10:12	02/28/22 09:47	1
Combined Radium 226 + 228	**1.38**		0.293	0.332		0.491	pCi/g	02/07/22 10:12	02/28/22 09:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.659	U	4.51	0.659	ug/Kg			01/27/22 18:57	1
Chloromethane	1.08	U	4.51	1.08	ug/Kg			01/27/22 18:57	1
Vinyl chloride	0.542	U	4.51	0.542	ug/Kg			01/27/22 18:57	1
Bromomethane	0.993	U	4.51	0.993	ug/Kg			01/27/22 18:57	1
Trichlorofluoromethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Acrolein	7.76	U	45.1	7.76	ug/Kg			01/27/22 18:57	1
1,1-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
trans-1,2-Dichloroethene	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Methyl tert-butyl ether	0.551	U	4.51	0.551	ug/Kg			01/27/22 18:57	1
1,3-Dichlorobenzene	0.280	U	4.51	0.280	ug/Kg			01/27/22 18:57	1
Methylene Chloride	4.51	U	22.6	4.51	ug/Kg			01/27/22 18:57	1
Acrylonitrile	3.25	U	45.1	3.25	ug/Kg			01/27/22 18:57	1
cis-1,2-Dichloroethene	0.514	U	4.51	0.514	ug/Kg			01/27/22 18:57	1
Carbon tetrachloride	0.460	U	4.51	0.460	ug/Kg			01/27/22 18:57	1
Benzene	0.569	U	4.51	0.569	ug/Kg			01/27/22 18:57	1
1,2-Dichloroethane	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
Trichloroethene	0.253	U	4.51	0.253	ug/Kg			01/27/22 18:57	1
1,1,1-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
1,1-Dichloroethane	0.532	U	4.51	0.532	ug/Kg			01/27/22 18:57	1
1,2-Dichloropropane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
1,4-Dioxane	17.1	U	90.3	17.1	ug/Kg			01/27/22 18:57	1
Chloroform	0.785	U	4.51	0.785	ug/Kg			01/27/22 18:57	1
Bromodichloromethane	0.181	U	4.51	0.181	ug/Kg			01/27/22 18:57	1
1,1-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
cis-1,3-Dichloropropene	0.406	U	4.51	0.406	ug/Kg			01/27/22 18:57	1
Toluene	0.812	U	4.51	0.812	ug/Kg			01/27/22 18:57	1
trans-1,3-Dichloropropene	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
1,1,2-Trichloroethane	0.451	U	4.51	0.451	ug/Kg			01/27/22 18:57	1
Tetrachloroethene	0.668	U *	4.51	0.668	ug/Kg			01/27/22 18:57	1
1,3-Dichloropropene, Total	0.469	U	4.51	0.469	ug/Kg			01/27/22 18:57	1
1,2-Dibromoethane	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Monochlorobenzene	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Ethylbenzene	0.406	U	4.51	0.406	ug/Kg			01/27/22 18:57	1
Xylenes, Total	0.451	U	9.03	0.451	ug/Kg			01/27/22 18:57	1
Styrene	0.271	U	4.51	0.271	ug/Kg			01/27/22 18:57	1
Tribromomethane	0.460	U	4.51	0.460	ug/Kg			01/27/22 18:57	1
1,1,2,2-Tetrachloroethane	0.343	U	4.51	0.343	ug/Kg			01/27/22 18:57	1
1,4-Dichlorobenzene	0.289	U	4.51	0.289	ug/Kg			01/27/22 18:57	1
1,2-Dichlorobenzene	0.226	U	4.51	0.226	ug/Kg			01/27/22 18:57	1
1,2,4-Trichlorobenzene	0.875	U	4.51	0.875	ug/Kg			01/27/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/27/22 18:57*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 18:57*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/27/22 18:57*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 18:57*	*1*

Method: 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		02/01/22 11:08	02/03/22 01:09	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:09*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.3	11.9	ug/Kg		02/04/22 15:17	02/08/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 16:50*	*1*

Method: 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		01/27/22 07:14	01/27/22 23:40	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/27/22 23:40	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/27/22 23:40	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/27/22 23:40	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*	*01/27/22 07:14*	*01/27/22 23:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*30 - 115*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
2-Fluorophenol	*88*		*25 - 121*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
2,4,6-Tribromophenol	*107*		*19 - 122*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
Nitrobenzene-d5	*95*		*23 - 129*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
Phenol-d5 (Surr)	*90*		*24 - 113*	*01/27/22 07:14*	*01/27/22 23:40*	*1*
p-Terphenyl-d14 (Surr)	*114*		*18 - 137*	*01/27/22 07:14*	*01/27/22 23:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:12*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:12*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 16:26	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:26	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:26*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:22	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:22*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:22*	*1*

Method: 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	0.0993	0.0225	mg/Kg		02/05/22 11:25	02/10/22 08:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.199	0.0427	mg/Kg		02/05/22 11:25	02/10/22 08:02	1
2,4,6-Trinitrotoluene	0.0305	U	0.0993	0.0305	mg/Kg		02/05/22 11:25	02/10/22 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:02*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.59	U	10.1	3.59	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrate as N	**5.31**		1.01	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Fluoride	**2.42**	**J**	5.07	1.01	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrite as N	**0.601**	**J**	1.01	0.0507	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Nitrate Nitrite as N	**5.91**		1.01	0.110	mg/Kg		01/25/22 11:00	01/25/22 17:49	1
Sulfate	**21.4**		10.1	4.38	mg/Kg		01/25/22 11:00	01/25/22 17:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:22	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.212	U H	0.736	0.212	ug/Kg		02/10/22 11:04	02/16/22 11:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.258	U H	0.736	0.258	ug/Kg		02/10/22 11:04	02/16/22 11:47	1
Perfluorooctanesulfonic acid (PFOS)	0.129	U H	0.736	0.129	ug/Kg		02/10/22 11:04	02/16/22 11:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	02/10/22 11:04	02/16/22 11:47	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 11:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Arsenic	**3.55**	**J**	3.57	0.551	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Barium	**167**		3.57	0.310	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Chromium	**2.61**	**J**	3.57	0.242	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Copper	**1.38**	**J**	3.57	0.233	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Iron	**2330**		17.9	2.09	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Manganese	**17.2**		1.79	0.227	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Lead	**1.48**	**J**	1.79	0.173	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Antimony	0.106	U	1.79	0.106	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Selenium	0.443	U	1.79	0.443	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Thallium	0.213	U	1.79	0.213	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Uranium	**0.377**	**J**	0.893	0.0534	mg/Kg		01/30/22 14:01	02/01/22 21:22	10
Zinc	**7.37**		3.57	0.395	mg/Kg		01/30/22 14:01	02/01/22 21:22	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00645**	**J**	0.0182	0.00349	mg/Kg		01/28/22 08:00	01/28/22 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	60.0	29.7	ug/Kg		02/07/22 14:39	02/07/22 16:31	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:03	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.4**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**158**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.78**		0.207	0.277	1.00	0.0967	pCi/g	02/07/22 10:12	02/28/22 10:20	1
Radium-228	0.0677	U	0.203	0.203		0.311	pCi/g	02/07/22 10:12	02/28/22 10:20	1
Combined Radium 226 + 228	**1.85**		0.290	0.343		0.311	pCi/g	02/07/22 10:12	02/28/22 10:20	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19619-1	Cell17-Square 37-S-3-4-220124	93	95	92	115
860-19619-2	Cell17-Square 117-S-3-4-220124	96	95	94	111
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19619-1	Cell17-Square 37-S-3-4-220124	96
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	96
860-19619-2	Cell17-Square 117-S-3-4-220124	108
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	113
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19619-1	Cell17-Square 37-S-3-4-220124	83 *
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	78 *
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	79
860-19619-2	Cell17-Square 117-S-3-4-220124	84 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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)
860-19619-1	Cell17-Square 37-S-3-4-220124	88	78	101	82	81	102
860-19619-2	Cell17-Square 117-S-3-4-220124	100	88	107	95	90	114
LCS 860-39007/2-A	Lab Control Sample	103	107	118	102	111	109
LCSD 860-39007/3-A	Lab Control Sample Dup	111	110	123 X	110	114 X	116
MB 860-39007/1-A	Method Blank	120 X	112	122	125	113	135

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19619-1	Cell17-Square 37-S-3-4-220124	99	85
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	93	86
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	95	87
860-19619-2	Cell17-Square 117-S-3-4-220124	97	83
LCS 860-39365/2-A	Lab Control Sample	98	89
LCSD 860-39365/3-A	Lab Control Sample Dup	96	87
MB 860-39365/1-A	Method Blank	96	83

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19619-1	Cell17-Square 37-S-3-4-220124	83	102
860-19619-2	Cell17-Square 117-S-3-4-220124	86	107
LCS 860-38890/2-A	Lab Control Sample	88	107
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107
MB 860-38890/1-A	Method Blank	95	115

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19619-1	Cell17-Square 37-S-3-4-220124	68	92								
860-19619-2	Cell17-Square 117-S-3-4-220124	70	92								
LCS 860-38890/4-A	Lab Control Sample	72	86								
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87								
MB 860-38890/1-A	Method Blank	80	91								

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)									
		12DNB1									
Lab Sample ID	Client Sample ID	(83-122)									
860-19619-1	Cell17-Square 37-S-3-4-220124	108									
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	99									
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	104									
860-19619-2	Cell17-Square 117-S-3-4-220124	104									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
		C8PFOA	C8PFOS								
Lab Sample ID	Client Sample ID	(57-153)	(70-130)								
860-19619-1	Cell17-Square 37-S-3-4-220124	103	106								
860-19619-2	Cell17-Square 117-S-3-4-220124	102	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19619-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192640/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864 **Prep Batch: 39768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)	0.00253	U	0.0502	0.05280		mg/Kg		105	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*

Lab Sample ID: 860-19619-2 MS **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40051 **Prep Batch: 39768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)	0.00250	U	0.0498	0.04917		mg/Kg		99	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*63 - 144*

Lab Sample ID: MB 860-39864/16 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	11.7	U	330	249.2		ug/Kg		76	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*78*	*	*30 - 164*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	11.7	U	330	258.6		ug/Kg		78	40 - 140	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*79*		*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39007/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

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		01/26/22 16:18	01/27/22 16:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39007/1-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/26/22 16:18	01/27/22 16:18	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/26/22 16:18	01/27/22 16:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/26/22 16:18	01/27/22 16:18	1

Tentatively Identified Compound	*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*	*01/26/22 16:18*	*01/27/22 16:18*	*1*

Surrogate	*%Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*120*	*X*	*30 - 115*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
2-Fluorophenol	*112*		*25 - 121*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
2,4,6-Tribromophenol	*122*		*19 - 122*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
Nitrobenzene-d5	*125*		*23 - 129*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
Phenol-d5 (Surr)	*113*		*24 - 113*	*01/26/22 16:18*	*01/27/22 16:18*	*1*
p-Terphenyl-d14 (Surr)	*135*		*18 - 137*	*01/26/22 16:18*	*01/27/22 16:18*	*1*

Lab Sample ID: LCS 860-39007/2-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1209		ug/Kg		91	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1072		ug/Kg		80	35 - 135
1-Methylnaphthalene	1330	1073		ug/Kg		80	38 - 127
bis (2-chloroisopropyl) ether	1330	905.0		ug/Kg		68	25 - 124

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39007/2-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1330	1172		ug/Kg		88	40 - 135
2,4,6-Trichlorophenol	1330	1173		ug/Kg		88	39 - 139
2,4-Dinitrotoluene	1330	1205		ug/Kg		90	48 - 131
Dinitrophenols	1330	991.2		ug/Kg		74	19 - 131
2,4-Dichlorophenol	1330	1149		ug/Kg		86	36 - 135
2,6-Dinitrotoluene	1330	1138		ug/Kg		85	42 - 136
Dichlorobenzidine, 3,3'-	1330	960.6		ug/Kg		72	35 - 134
4,6-Dinitro-2-methylphenol	1330	1144		ug/Kg		86	30 - 146
Acenaphthene	1330	1080		ug/Kg		81	37 - 131
Anthracene	1330	1170		ug/Kg		88	39 - 139
Acenaphthylene	1330	1132		ug/Kg		85	39 - 129
Benzo[a]anthracene	1330	1124		ug/Kg		84	44 - 135
Benzo[b]fluoranthene	1330	1101		ug/Kg		83	40 - 153
Benzo[k]fluoranthene	1330	1230		ug/Kg		92	33 - 156
Benzo[g,h,i]perylene	1330	1192		ug/Kg		89	40 - 153
Benzo[a]pyrene	1330	1138		ug/Kg		85	43 - 153
Di (2-ethylhexyl)phthalate	1330	1236		ug/Kg		93	46 - 145
Bis(2-chloroethyl)ether	1330	973.4		ug/Kg		73	33 - 127
Chrysene	1330	1097		ug/Kg		82	42 - 135
Dibutylphthalate	1330	1199		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	1330	1197		ug/Kg		90	41 - 155
Diethyl phthalate	1330	1082		ug/Kg		81	45 - 131
Dimethyl phthalate	1330	1103		ug/Kg		83	43 - 132
Fluoranthene	1330	1181		ug/Kg		89	41 - 138
Fluorene	1330	1161		ug/Kg		87	41 - 131
Hexachlorobenzene	1330	1121		ug/Kg		84	36 - 142
Hexachlorobutadiene	1330	1040		ug/Kg		78	35 - 129
Hexachlorocyclopentadiene	1330	985.1		ug/Kg		74	16 - 106
Hexachloroethane	1330	984.9		ug/Kg		74	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1183		ug/Kg		89	39 - 154
Isophorone	1330	1068		ug/Kg		80	36 - 128
N-Nitrosodi-n-butylamine	1330	1138		ug/Kg		85	34 - 135
N-Nitrosodiethylamine	1330	1141		ug/Kg		86	36 - 127
N-Nitrosodiphenylamine	1330	1167		ug/Kg		88	27 - 155
N-Nitrosopyrrolidine	1330	1115		ug/Kg		84	38 - 136
Pentachlorobenzene	1330	1102		ug/Kg		83	38 - 136
Pentachlorophenol	1330	1050		ug/Kg		79	14 - 148
Phenanthrene	1330	1121		ug/Kg		84	37 - 139
Pyrene	1330	1139		ug/Kg		85	42 - 138
Naphthalene	1330	1064		ug/Kg		80	35 - 128
2-Methylnaphthalene	1330	1074		ug/Kg		81	36 - 126
Nitrobenzene	1330	1111		ug/Kg		83	32 - 129
Benzidine	1330	540.1		ug/Kg		41	12 - 112
Phenol	1.33	1.116		mg/Kg		84	34 - 127
N-Nitrosodimethylamine	1330	1083		ug/Kg		81	27 - 126
Atrazine	1330	1253		ug/Kg		94	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	1069		ug/Kg		80	30 - 130

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39007/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	103		30 - 115
2-Fluorophenol	107		25 - 121
2,4,6-Tribromophenol	118		19 - 122
Nitrobenzene-d5	102		23 - 129
Phenol-d5 (Surr)	111		24 - 113
p-Terphenyl-d14 (Surr)	109		18 - 137

Lab Sample ID: LCSD 860-39007/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1277		ug/Kg		96	20 - 157	5	30
1,2,4,5-Tetrachlorobenzene			1330	1169		ug/Kg		88	35 - 135	9	30
1-Methylnaphthalene			1330	1165		ug/Kg		87	38 - 127	8	30
bis (2-chloroisopropyl) ether			1330	956.7		ug/Kg		72	25 - 124	6	30
2,4,5-Trichlorophenol			1330	1284		ug/Kg		96	40 - 135	9	30
2,4,6-Trichlorophenol			1330	1271		ug/Kg		95	39 - 139	8	30
2,4-Dinitrotoluene			1330	1324		ug/Kg		99	48 - 131	9	30
Dinitrophenols			1330	1061		ug/Kg		80	19 - 131	7	40
2,4-Dichlorophenol			1330	1208		ug/Kg		91	36 - 135	5	30
2,6-Dinitrotoluene			1330	1245		ug/Kg		93	42 - 136	9	30
Dichlorobenzidine, 3,3'-			1330	1022		ug/Kg		77	35 - 134	6	40
4,6-Dinitro-2-methylphenol			1330	1265		ug/Kg		95	30 - 146	10	40
Acenaphthene			1330	1198		ug/Kg		90	37 - 131	10	30
Anthracene			1330	1233		ug/Kg		92	39 - 139	5	30
Acenaphthylene			1330	1210		ug/Kg		91	39 - 129	7	30
Benzo[a]anthracene			1330	1221		ug/Kg		92	44 - 135	8	30
Benzo[b]fluoranthene			1330	1198		ug/Kg		90	40 - 153	8	30
Benzo[k]fluoranthene			1330	1312		ug/Kg		98	33 - 156	6	30
Benzo[g,h,i]perylene			1330	1332		ug/Kg		100	40 - 153	11	30
Benzo[a]pyrene			1330	1264		ug/Kg		95	43 - 153	10	30
Di (2-ethylhexyl)phthalate			1330	1329		ug/Kg		100	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	1053		ug/Kg		79	33 - 127	8	30
Chrysene			1330	1195		ug/Kg		90	42 - 135	9	30
Dibutylphthalate			1330	1318		ug/Kg		99	43 - 142	9	30
Dibenz(a,h)anthracene			1330	1351		ug/Kg		101	41 - 155	12	30
Diethyl phthalate			1330	1195		ug/Kg		90	45 - 131	10	30
Dimethyl phthalate			1330	1201		ug/Kg		90	43 - 132	8	30
Fluoranthene			1330	1321		ug/Kg		99	41 - 138	11	30
Fluorene			1330	1240		ug/Kg		93	41 - 131	7	30
Hexachlorobenzene			1330	1189		ug/Kg		89	36 - 142	6	30
Hexachlorobutadiene			1330	1092		ug/Kg		82	35 - 129	5	30
Hexachlorocyclopentadiene			1330	982.3		ug/Kg		74	16 - 106	0	30
Hexachloroethane			1330	1047		ug/Kg		79	36 - 121	6	30
Indeno[1,2,3-cd]pyrene			1330	1332		ug/Kg		100	39 - 154	12	30
Isophorone			1330	1164		ug/Kg		87	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1187		ug/Kg		89	34 - 135	4	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39007/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39007**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine	1330	1170		ug/Kg		88	36 - 127	3	30
N-Nitrosodiphenylamine	1330	1242		ug/Kg		93	27 - 155	6	30
N-Nitrosopyrrolidine	1330	1173		ug/Kg		88	38 - 136	5	30
Pentachlorobenzene	1330	1144		ug/Kg		86	38 - 136	4	30
Pentachlorophenol	1330	1100		ug/Kg		82	14 - 148	5	40
Phenanthrene	1330	1216		ug/Kg		91	37 - 139	8	30
Pyrene	1330	1251		ug/Kg		94	42 - 138	9	30
Naphthalene	1330	1117		ug/Kg		84	35 - 128	5	30
2-Methylnaphthalene	1330	1174		ug/Kg		88	36 - 126	9	30
Nitrobenzene	1330	1211		ug/Kg		91	32 - 129	9	30
Benzidine	1330	570.4		ug/Kg		43	12 - 112	5	40
Phenol	1.33	1.176		mg/Kg		88	34 - 127	5	40
N-Nitrosodimethylamine	1330	1077		ug/Kg		81	27 - 126	1	30
Atrazine	1330	1378		ug/Kg		103	18 - 134	10	40
Thiophene, tetrahydro-, 1,1-dioxide	1330	1182		ug/Kg		89	30 - 130	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*111*		*30 - 115*
2-Fluorophenol	*110*		*25 - 121*
2,4,6-Tribromophenol	*123*	*X*	*19 - 122*
Nitrobenzene-d5	*110*		*23 - 129*
Phenol-d5 (Surr)	*114*	*X*	*24 - 113*
p-Terphenyl-d14 (Surr)	*116*		*18 - 137*

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

Lab Sample ID: MB 860-39365/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*

Lab Sample ID: LCS 860-39365/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1063		mg/Kg		107	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-39365/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			996	1009		mg/Kg		101	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*65 - 130*
o-Terphenyl (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 860-39365/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			994	1043		mg/Kg		105	70 - 135	2	35
Diesel Range Organics (Over C10-C28)			996	959.8		mg/Kg		96	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	20.8	U	997	1026		mg/Kg		103	70 - 135		
Diesel Range Organics (Over C10-C28)	20.8	U	999	954.3		mg/Kg		95	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*65 - 130*
o-Terphenyl (Surr)	*86*		*65 - 130*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	20.8	U	991	1047		mg/Kg		106	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	20.8	U	993	989.2		mg/Kg		100	70 - 135	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19619-1 MS **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.0214	U	0.978	0.8718		mg/Kg		89	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.978	0.8980		mg/Kg		92	80 - 124
2,4,6-Trinitrotoluene	0.0290	U	0.978	0.9582		mg/Kg		98	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*99*		*83 - 122*

Lab Sample ID: 860-19619-1 MSD **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.0214	U	0.990	0.9272		mg/Kg		94	80 - 120	6	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.990	0.9792		mg/Kg		99	80 - 124	9	30
2,4,6-Trinitrotoluene	0.0290	U	0.990	1.028		mg/Kg		104	80 - 120	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-38773/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/25/22 11:00	01/25/22 11:46	1

Lab Sample ID: LCS 860-38773/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	106.3		mg/Kg		106	80 - 120
Nitrate as N	100	103.4		mg/Kg		103	80 - 120
Fluoride	100	106.1		mg/Kg		106	80 - 120
Nitrite as N	50.0	47.19		mg/Kg		94	80 - 120
Nitrate Nitrite as N	150	150.6		mg/Kg		100	80 - 120
Sulfate	100	104.4		mg/Kg		104	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38773/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38740 — **Prep Batch: 38773**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	108.0		mg/Kg		108	80 - 120	2	20
Nitrate as N			100	102.5		mg/Kg		103	80 - 120	1	20
Fluoride			100	105.4		mg/Kg		105	80 - 120	1	20
Nitrite as N			50.0	46.96		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	149.5		mg/Kg		100	80 - 120	1	20
Sulfate			100	103.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Lab Sample ID: 860-19619-2 MS — **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	0.0824	U	0.481	0.4447	J	ug/Kg		92	70 - 130		

Lab Sample ID: 860-19619-2 MSD — **Client Sample ID: Cell17-Square 117-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.0824	U	0.458	0.4073	J	ug/Kg		89	70 - 130	9	15

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39512/1-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0153	U	0.192	0.0153	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Arsenic	0.0593	U	0.385	0.0593	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Barium	0.0334	U	0.385	0.0334	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Beryllium	0.0178	U	0.192	0.0178	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19619-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39512/1-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0112	U	0.192	0.0112	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Chromium	0.0261	U	0.385	0.0261	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Copper	0.0251	U	0.385	0.0251	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Iron	0.225	U	1.92	0.225	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Manganese	0.0245	U	0.192	0.0245	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Lead	0.0186	U	0.192	0.0186	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Antimony	0.0114	U	0.192	0.0114	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Selenium	0.0477	U	0.192	0.0477	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Thallium	0.0230	U	0.192	0.0230	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Uranium	0.00575	U	0.0962	0.00575	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Zinc	0.0426	U	0.385	0.0426	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

Lab Sample ID: LCS 860-39512/2-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.643		mg/Kg		97	80 - 120
Arsenic	9.62	9.906		mg/Kg		103	80 - 120
Barium	9.62	9.722		mg/Kg		101	80 - 120
Beryllium	9.62	9.485		mg/Kg		99	80 - 120
Cadmium	9.62	9.701		mg/Kg		101	80 - 120
Chromium	9.62	9.581		mg/Kg		100	80 - 120
Copper	9.62	9.468		mg/Kg		98	80 - 120
Iron	48.1	47.68		mg/Kg		99	80 - 120
Manganese	9.62	9.619		mg/Kg		100	80 - 120
Lead	9.62	9.385		mg/Kg		98	80 - 120
Antimony	9.62	9.135		mg/Kg		95	80 - 120
Selenium	9.62	9.890		mg/Kg		103	80 - 120
Thallium	9.62	9.440		mg/Kg		98	80 - 120
Uranium	2.40	2.233		mg/Kg		93	80 - 120
Zinc	9.62	10.25		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-39512/3-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.81	4.646		mg/Kg		97	80 - 120	0	20
Arsenic	9.62	9.841		mg/Kg		102	80 - 120	1	20
Barium	9.62	9.525		mg/Kg		99	80 - 120	2	20
Beryllium	9.62	9.511		mg/Kg		99	80 - 120	0	20
Cadmium	9.62	9.656		mg/Kg		100	80 - 120	0	20
Chromium	9.62	9.587		mg/Kg		100	80 - 120	0	20
Copper	9.62	9.432		mg/Kg		98	80 - 120	0	20
Iron	48.1	47.59		mg/Kg		99	80 - 120	0	20
Manganese	9.62	9.644		mg/Kg		100	80 - 120	0	20
Lead	9.62	9.392		mg/Kg		98	80 - 120	0	20
Antimony	9.62	9.353		mg/Kg		97	80 - 120	2	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39512/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39615 — **Prep Batch: 39512**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	9.62	9.806		mg/Kg		102	80 - 120	1	20
Thallium	9.62	9.427		mg/Kg		98	80 - 120	0	20
Uranium	2.40	2.261		mg/Kg		94	80 - 120	1	20
Zinc	9.62	10.02		mg/Kg		104	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39206/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 11:49	1

Lab Sample ID: LCS 860-39206/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1989		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 860-39206/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1998		mg/Kg		104	80 - 120	0	20

Lab Sample ID: 860-19619-1 MS — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00490	J	0.189	0.1887		mg/Kg		97	75 - 125

Lab Sample ID: 860-19619-1 MSD — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00490	J	0.189	0.1911		mg/Kg		99	75 - 125	1	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40511/24-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/07/22 14:39	02/07/22 16:12	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-40511/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40511/26-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	54.17		ug/Kg		108	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19619-1 DU — **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40331

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.4	HF	9.4		SU		0.5	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 560-193044/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

Lab Sample ID: 860-19619-1 DU **Client Sample ID: Cell17-Square 37-S-3-4-220124**
Matrix: Solid **Prep Type: 7 Day Leach**
Analysis Batch: 193044

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	213			215.0		mg/L				0.9	20

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	5035	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	5035	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	5035	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260D SIM	39768

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260D SIM	39768

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8260B	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3550C	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-39007/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39007/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39007/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	39007
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8270D	39007
MB 860-39007/1-A	Method Blank	Total/NA	Solid	8270D	39007
LCS 860-39007/2-A	Lab Control Sample	Total/NA	Solid	8270D	39007
LCSD 860-39007/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 565562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3550C	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8081B	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8082A	38890
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8082A	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8015B NM	39365
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015B NM	39365
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39365
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39365
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015B NM	39365

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 39365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8015NM Prep	
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 38740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Analysis Batch: 38741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Prep Batch: 38773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	300_Prep	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	300_Prep	
MB 860-38773/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	564725

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6860	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	
860-19619-2 MSD	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6860	565161
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161
860-19619-2 MS	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161
860-19619-2 MSD	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	PFC leach	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	7471A	
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	7471A	39206
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	39206
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	39206
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39206
860-19619-1 MS	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19619-1 MSD	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	7471A	39206

Prep Batch: 39512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	3051A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	3051A	
MB 860-39512/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 39615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39512/1-A	Method Blank	Total/NA	Solid	6020A	39512
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	6020A	39512
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39512

Analysis Batch: 39892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	6020A	39512
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	6020A	39512

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Soluble	Solid	DI Leach	
860-19619-2	Cell17-Square 117-S-3-4-220124	Soluble	Solid	DI Leach	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Soluble	Solid	9045D	40316
860-19619-2	Cell17-Square 117-S-3-4-220124	Soluble	Solid	9045D	40316
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	Soluble	Solid	9045D	40316

Prep Batch: 40511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9012A	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9012A	
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9012A	40511
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9012A	40511
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	40511
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	40511
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	40511

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	9066	42223
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19619-2	Cell17-Square 117-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
860-19619-2	Cell17-Square 117-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19619-1 DU	Cell17-Square 37-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Dry and Grind	
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19619-1	Cell17-Square 37-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041
860-19619-2	Cell17-Square 117-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 37-S-3-4-220124 **Lab Sample ID: 860-19619-1**
Date Collected: 01/24/22 10:34 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192640	01/27/22 18:31	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 17:37	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 23:20	T1S	XEN STF
Total/NA	Prep	3546			15.39 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 16:24	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 02:13	IS	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:10	WP	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:12	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.60 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 06:53	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 17:37	ANP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 17:37	ANP	XEN STF
Total/NA	Prep	6860			10.65 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:17	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.98 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:39	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:19	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 11:53	SHZ	XEN STF
Total/NA	Prep	9012A			0.5055 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:29	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 12:55	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			310.9000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 09:47	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 117-S-3-4-220124 **Lab Sample ID: 860-19619-2**
Date Collected: 01/24/22 11:15 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.54 g	5 mL	192640	01/27/22 18:57	RJD	XEN CC
Total/NA	Prep	5035			5.01 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:09	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 23:40	T1S	XEN STF
Total/NA	Prep	3546			15.15 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 16:50	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:12	IS	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:26	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:22	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.07 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:02	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 17:49	ANP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 17:49	ANP	XEN STF
Total/NA	Prep	6860			10.0 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:22	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.87 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:47	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:22	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:03	SHZ	XEN STF
Total/NA	Prep	9012A			0.5004 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:31	CM1	XEN STF
Soluble	Leach	DI Leach			20.13 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.13 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:03	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			302.9000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 10:20	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19619-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19619-1	Cell17-Square 37-S-3-4-220124	Solid	01/24/22 10:34	01/25/22 09:45
860-19619-2	Cell17-Square 117-S-3-4-220124	Solid	01/24/22 11:15	01/25/22 09:45

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

Temp: 0.2 IR ID HOU-323
C/F +0.2
Corrected Temp: 0.4

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):
Client Contact: Alison Schaffer	Phone: 432-599-3594	E-Mail: Sachin.Kudchadkar@Eurofinset.com	COC No: 600-78203-21039.1
Company: ARCADIS U.S. Inc.			Page: Page 1 1
Address: 630 Plaza Drive Suite 100	Due Date Requested:		Job #:
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	8880 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	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:																		
Cell 17-Square 31-5-3-4-220124	1/24/22	1034	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	5	
Cell 17-Square 117-5-3-4-220124	1/24/22	1115	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	5	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB																					

860-19619 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: Cory Rodriguez	Date/Time: 1/24/22 1706	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: YCRS	Date/Time: 1/25/22 945	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:

Ver 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9667.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/11/2022			
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, 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:						
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	1	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	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 out 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 complicance 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	FED EX	1/26/22 1700	FX	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: Autumn Johnson	Date/Time: JAN 28 2022 1120	Company: ETA STL
3	Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9662.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/10/2022			
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	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:

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	X	X	2	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	11:15 Central		Solid			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 out 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 complicance 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		1/26/22 1700	EX		1/27/22 1005	ETADEN
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: 3.1 IR3 (F-0.2

3.1 gn 1/27/22

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19619-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/10/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square 37-S-3-4-220124 (860-19619-1)	1/24/22	10:34 Central		Solid			X	X	1	
Cell17-Square 117-S-3-4-220124 (860-19619-2)	1/24/22	11:15 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 out 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 complicance 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]	1/26/22 1700	EX	[signature]	01/27/2022 1530	EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 AC IR-10 3.3

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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	0.4
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").	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	0.4
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:41 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19619-1

Login Number: 19619 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:38 PM**
Creator: Rystrom, Joshua R

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?	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").	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: 860-19619-1

Login Number: 19619 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:50 PM**
Creator: Whitley, Adrian

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 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: 860-19619-1

Login Number: 19619 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
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Laboratory Job ID: 860-19624-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
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Attn: Alison Schaffer



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2/28/2022 5:51:13 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19624-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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
*	ISTD response or retention time outside acceptable 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 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
H	Sample was prepped or analyzed beyond the specified holding time
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19624-1

Receipt
The samples were received on 1/25/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; 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 Semi VOA
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
Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-38890 and analytical batch 860-38895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2 DU) and (860-19624-F-2 TRL) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2 DU) and (860-19624-F-2 TRL). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell17-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (860-19624-F-2-B DU) and (860-19624-F-2-C TRL) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

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Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell17-Square 26-S-3-4-220124 (860-19624-1) and Cell17-Square 129-S-3-4-220124 (860-19624-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell17-Square 26-S-3-4-220124 (860-19624-1) and Cell17-Square 129-S-3-4-220124 (860-19624-2). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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-Square 26-S-3-4-220124 (860-19624-1), Cell17-Square 129-S-3-4-220124 (860-19624-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 Lab Sample ID: 860-19624-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	666		10.0	3.55	mg/Kg	1		9056A	Total/NA
Nitrate as N	11.0		1.00	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	3.01	J	5.02	1.00	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.456	J	1.00	0.0502	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	11.5		1.00	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	33.4		10.0	4.34	mg/Kg	1		9056A	Total/NA
Perchlorate	0.651		0.496	0.0817	ug/Kg	1		6860	Total/NA
Arsenic	4.39		3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	385		3.70	0.321	mg/Kg	10		6020A	Total/NA
Chromium	3.51	J	3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.52	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	3100		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	22.4		1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	1.86		1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.147	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.535	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	9.41		3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00688	J	0.0179	0.00343	mg/Kg	1		7471A	Total/NA
pH	8.5	HF			SU	1		9045D	Soluble
Total Dissolved Solids	503		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell17-Square 129-S-3-4-220124 Lab Sample ID: 860-19624-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	0.474	J	4.52	0.271	ug/Kg	1		8260B	Total/NA
Heptachlor epoxide	0.274	J	0.832	0.244	ug/Kg	1		8081B	Total/NA
Chloride	93.7		10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	15.9		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	3.41	J	5.09	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.593	J	1.02	0.0509	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	16.5		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	50.8		10.2	4.40	mg/Kg	1		9056A	Total/NA
Arsenic	2.53	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	242		3.77	0.327	mg/Kg	10		6020A	Total/NA
Beryllium	0.192	J	1.89	0.175	mg/Kg	10		6020A	Total/NA
Chromium	4.64		3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.76	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	4190		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	39.6		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	2.59		1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.175	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.374	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	11.5		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00669	J	0.0169	0.00326	mg/Kg	1		7471A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	201		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.717	U	4.91	0.717	ug/Kg			01/27/22 19:22	1
Chloromethane	1.18	U	4.91	1.18	ug/Kg			01/27/22 19:22	1
Vinyl chloride	0.589	U	4.91	0.589	ug/Kg			01/27/22 19:22	1
Bromomethane	1.08	U	4.91	1.08	ug/Kg			01/27/22 19:22	1
Trichlorofluoromethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Acrolein	8.45	U	49.1	8.45	ug/Kg			01/27/22 19:22	1
1,1-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
trans-1,2-Dichloroethene	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Methyl tert-butyl ether	0.599	U	4.91	0.599	ug/Kg			01/27/22 19:22	1
1,3-Dichlorobenzene	0.305	U	4.91	0.305	ug/Kg			01/27/22 19:22	1
Methylene Chloride	4.91	U	24.6	4.91	ug/Kg			01/27/22 19:22	1
Acrylonitrile	3.54	U	49.1	3.54	ug/Kg			01/27/22 19:22	1
cis-1,2-Dichloroethene	0.560	U	4.91	0.560	ug/Kg			01/27/22 19:22	1
Carbon tetrachloride	0.501	U	4.91	0.501	ug/Kg			01/27/22 19:22	1
Benzene	0.619	U	4.91	0.619	ug/Kg			01/27/22 19:22	1
1,2-Dichloroethane	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
Trichloroethene	0.275	U	4.91	0.275	ug/Kg			01/27/22 19:22	1
1,1,1-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
1,1-Dichloroethane	0.580	U	4.91	0.580	ug/Kg			01/27/22 19:22	1
1,2-Dichloropropane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
1,4-Dioxane	18.7	U	98.2	18.7	ug/Kg			01/27/22 19:22	1
Chloroform	0.855	U	4.91	0.855	ug/Kg			01/27/22 19:22	1
Bromodichloromethane	0.196	U	4.91	0.196	ug/Kg			01/27/22 19:22	1
1,1-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
cis-1,3-Dichloropropene	0.442	U	4.91	0.442	ug/Kg			01/27/22 19:22	1
Toluene	0.884	U	4.91	0.884	ug/Kg			01/27/22 19:22	1
trans-1,3-Dichloropropene	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
1,1,2-Trichloroethane	0.491	U	4.91	0.491	ug/Kg			01/27/22 19:22	1
Tetrachloroethene	0.727	U *	4.91	0.727	ug/Kg			01/27/22 19:22	1
1,3-Dichloropropene, Total	0.511	U	4.91	0.511	ug/Kg			01/27/22 19:22	1
1,2-Dibromoethane	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Monochlorobenzene	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Ethylbenzene	0.442	U	4.91	0.442	ug/Kg			01/27/22 19:22	1
Xylenes, Total	0.491	U	9.82	0.491	ug/Kg			01/27/22 19:22	1
Styrene	0.295	U	4.91	0.295	ug/Kg			01/27/22 19:22	1
Tribromomethane	0.501	U	4.91	0.501	ug/Kg			01/27/22 19:22	1
1,1,2,2-Tetrachloroethane	0.373	U	4.91	0.373	ug/Kg			01/27/22 19:22	1
1,4-Dichlorobenzene	0.314	U	4.91	0.314	ug/Kg			01/27/22 19:22	1
1,2-Dichlorobenzene	0.246	U	4.91	0.246	ug/Kg			01/27/22 19:22	1
1,2,4-Trichlorobenzene	0.953	U	4.91	0.953	ug/Kg			01/27/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*		*01/27/22 19:22*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 19:22*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/27/22 19:22*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 19:22*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 17:59	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*	*02/01/22 11:08*	*02/01/22 17:59*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.3	11.9	ug/Kg		02/04/22 15:17	02/08/22 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*79*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 17:16*	*1*

Method: 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		01/27/22 07:14	01/28/22 17:27	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Benzidine	12.1	U	332	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/27/22 07:14	01/28/22 17:27	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Atrazine	16.5	U	332	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:27	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		01/27/22 07:14	01/28/22 17:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.665*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 17:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*30 - 115*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
2-Fluorophenol	*92*		*25 - 121*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
2,4,6-Tribromophenol	*117*		*19 - 122*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
Nitrobenzene-d5	*93*		*23 - 129*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
Phenol-d5 (Surr)	*90*		*24 - 113*	*01/27/22 07:14*	*01/28/22 17:27*	*1*
p-Terphenyl-d14 (Surr)	*115*		*18 - 137*	*01/27/22 07:14*	*01/28/22 17:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:31*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:31*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:41	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/26/22 16:41	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:41*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:31	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:31*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:31*	*1*

Method: 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		02/05/22 11:25	02/10/22 08:25	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/05/22 11:25	02/10/22 08:25	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		02/05/22 11:25	02/10/22 08:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:25*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**666**		10.0	3.55	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrate as N	**11.0**		1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Fluoride	**3.01**	**J**	5.02	1.00	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrite as N	**0.456**	**J**	1.00	0.0502	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Nitrate Nitrite as N	**11.5**		1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 18:01	1
Sulfate	**33.4**		10.0	4.34	mg/Kg		01/25/22 11:00	01/25/22 18:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.651**		0.496	0.0817	ug/Kg		02/03/22 17:49	02/08/22 18:37	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.214	U H	0.744	0.214	ug/Kg		02/10/22 11:04	02/16/22 11:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U H	0.744	0.260	ug/Kg		02/10/22 11:04	02/16/22 11:56	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U H	0.744	0.130	ug/Kg		02/10/22 11:04	02/16/22 11:56	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124 **Lab Sample ID: 860-19624-1**
Date Collected: 01/24/22 12:10 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 11:56	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 11:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.147	U	1.85	0.147	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Arsenic	**4.39**		3.70	0.571	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Barium	**385**		3.70	0.321	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Beryllium	0.171	U	1.85	0.171	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Chromium	**3.51**	**J**	3.70	0.251	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Copper	**1.52**	**J**	3.70	0.242	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Iron	**3100**		18.5	2.17	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Manganese	**22.4**		1.85	0.236	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Lead	**1.86**		1.85	0.179	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Antimony	**0.147**	**J**	1.85	0.110	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Selenium	0.459	U	1.85	0.459	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Thallium	0.221	U	1.85	0.221	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Uranium	**0.535**	**J**	0.926	0.0554	mg/Kg		01/30/22 14:01	02/01/22 21:25	10
Zinc	**9.41**		3.70	0.410	mg/Kg		01/30/22 14:01	02/01/22 21:25	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00688**	**J**	0.0179	0.00343	mg/Kg		01/28/22 08:00	01/28/22 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.6	U	57.7	28.6	ug/Kg		02/07/22 14:39	02/07/22 16:32	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:06	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**503**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.03**		0.211	0.235	1.00	0.142	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Radium-228	**0.313**		0.210	0.212		0.279	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Combined Radium 226 + 228	**1.34**		0.298	0.316		0.279	pCi/g	02/07/22 10:12	02/28/22 10:21	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124
Lab Sample ID: 860-19624-2
Date Collected: 01/24/22 12:40
Matrix: Solid
Date Received: 01/25/22 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.660	U	4.52	0.660	ug/Kg			01/27/22 19:48	1
Chloromethane	1.08	U	4.52	1.08	ug/Kg			01/27/22 19:48	1
Vinyl chloride	0.542	U	4.52	0.542	ug/Kg			01/27/22 19:48	1
Bromomethane	0.995	U	4.52	0.995	ug/Kg			01/27/22 19:48	1
Trichlorofluoromethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Acrolein	7.78	U	45.2	7.78	ug/Kg			01/27/22 19:48	1
1,1-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
trans-1,2-Dichloroethene	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Methyl tert-butyl ether	0.552	U	4.52	0.552	ug/Kg			01/27/22 19:48	1
1,3-Dichlorobenzene	0.280	U	4.52	0.280	ug/Kg			01/27/22 19:48	1
Methylene Chloride	4.52	U	22.6	4.52	ug/Kg			01/27/22 19:48	1
Acrylonitrile	3.25	U	45.2	3.25	ug/Kg			01/27/22 19:48	1
cis-1,2-Dichloroethene	0.515	U	4.52	0.515	ug/Kg			01/27/22 19:48	1
Carbon tetrachloride	0.461	U	4.52	0.461	ug/Kg			01/27/22 19:48	1
Benzene	0.570	U	4.52	0.570	ug/Kg			01/27/22 19:48	1
1,2-Dichloroethane	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
Trichloroethene	0.253	U	4.52	0.253	ug/Kg			01/27/22 19:48	1
1,1,1-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
1,1-Dichloroethane	0.533	U	4.52	0.533	ug/Kg			01/27/22 19:48	1
1,2-Dichloropropane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
1,4-Dioxane	17.2	U	90.4	17.2	ug/Kg			01/27/22 19:48	1
Chloroform	0.787	U	4.52	0.787	ug/Kg			01/27/22 19:48	1
Bromodichloromethane	0.181	U	4.52	0.181	ug/Kg			01/27/22 19:48	1
1,1-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
cis-1,3-Dichloropropene	0.407	U	4.52	0.407	ug/Kg			01/27/22 19:48	1
Toluene	0.814	U	4.52	0.814	ug/Kg			01/27/22 19:48	1
trans-1,3-Dichloropropene	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
1,1,2-Trichloroethane	0.452	U	4.52	0.452	ug/Kg			01/27/22 19:48	1
Tetrachloroethene	0.669	U *	4.52	0.669	ug/Kg			01/27/22 19:48	1
1,3-Dichloropropene, Total	0.470	U	4.52	0.470	ug/Kg			01/27/22 19:48	1
1,2-Dibromoethane	0.271	U	4.52	0.271	ug/Kg			01/27/22 19:48	1
Monochlorobenzene	0.271	U	4.52	0.271	ug/Kg			01/27/22 19:48	1
Ethylbenzene	0.407	U	4.52	0.407	ug/Kg			01/27/22 19:48	1
Xylenes, Total	0.452	U	9.04	0.452	ug/Kg			01/27/22 19:48	1
Styrene	**0.474**	**J**	4.52	0.271	ug/Kg			01/27/22 19:48	1
Tribromomethane	0.461	U	4.52	0.461	ug/Kg			01/27/22 19:48	1
1,1,2,2-Tetrachloroethane	0.344	U	4.52	0.344	ug/Kg			01/27/22 19:48	1
1,4-Dichlorobenzene	0.289	U	4.52	0.289	ug/Kg			01/27/22 19:48	1
1,2-Dichlorobenzene	0.226	U	4.52	0.226	ug/Kg			01/27/22 19:48	1
1,2,4-Trichlorobenzene	0.877	U	4.52	0.877	ug/Kg			01/27/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*		*01/27/22 19:48*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 19:48*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 19:48*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 19:48*	*1*

Method: 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		02/01/22 11:08	02/01/22 18:21	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*	*02/01/22 11:08*	*02/01/22 18:21*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/04/22 15:17	02/08/22 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*81*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 17:42*	*1*

Method: 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		01/27/22 07:14	01/28/22 17:47	1
1,2,4,5-Tetrachlorobenzene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
1-Methylnaphthalene	26.7	U	166	26.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Acenaphthylene	14.8	U	166	14.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[b]fluoranthene	12.6	U	166	12.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Phenanthrene	16.6	U	166	16.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 17:47	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 17:47	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 17:47	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*	*01/27/22 07:14*	*01/28/22 17:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*30 - 115*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
2-Fluorophenol	*72*		*25 - 121*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/27/22 07:14*	*01/28/22 17:47*	*1*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*01/27/22 07:14*	*01/28/22 17:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		01/28/22 11:36	01/29/22 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:51*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 03:51*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/26/22 16:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124
Lab Sample ID: 860-19624-2
Date Collected: 01/24/22 12:40
Matrix: Solid
Date Received: 01/25/22 09:45

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Heptachlor epoxide	**0.274**	**J**	0.832	0.244	ug/Kg		01/26/22 08:34	01/26/22 16:57	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/26/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/26/22 08:34*	*01/26/22 16:57*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*25 - 143*	*01/26/22 08:34*	*01/26/22 16:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:41	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/26/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*35 - 140*	*01/26/22 08:34*	*01/26/22 15:41*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*01/26/22 08:34*	*01/26/22 15:41*	*1*

Method: 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	0.0954	0.0217	mg/Kg		02/05/22 11:25	02/10/22 08:48	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U	0.191	0.0410	mg/Kg		02/05/22 11:25	02/10/22 08:48	1
2,4,6-Trinitrotoluene	0.0293	U	0.0954	0.0293	mg/Kg		02/05/22 11:25	02/10/22 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 08:48*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.7**		10.2	3.60	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrate as N	**15.9**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Fluoride	**3.41**	**J**	5.09	1.02	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrite as N	**0.593**	**J**	1.02	0.0509	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Nitrate Nitrite as N	**16.5**		1.02	0.110	mg/Kg		01/25/22 11:00	01/25/22 18:13	1
Sulfate	**50.8**		10.2	4.40	mg/Kg		01/25/22 11:00	01/25/22 18:13	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0767	U	0.465	0.0767	ug/Kg		02/03/22 17:49	02/08/22 18:42	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U H	0.773	0.222	ug/Kg		02/10/22 11:04	02/16/22 12:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.271	U H	0.773	0.271	ug/Kg		02/10/22 11:04	02/16/22 12:05	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U H	0.773	0.135	ug/Kg		02/10/22 11:04	02/16/22 12:05	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 Lab Sample ID: 860-19624-2

Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:05	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 12:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Arsenic	**2.53**	**J**	3.77	0.582	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Barium	**242**		3.77	0.327	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Beryllium	**0.192**	**J**	1.89	0.175	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Chromium	**4.64**		3.77	0.256	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Copper	**1.76**	**J**	3.77	0.246	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Iron	**4190**		18.9	2.21	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Manganese	**39.6**		1.89	0.240	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Lead	**2.59**		1.89	0.183	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Antimony	**0.175**	**J**	1.89	0.112	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Selenium	0.468	U	1.89	0.468	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Thallium	0.225	U	1.89	0.225	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Uranium	**0.374**	**J**	0.943	0.0564	mg/Kg		01/30/22 14:01	02/01/22 21:29	10
Zinc	**11.5**		3.77	0.418	mg/Kg		01/30/22 14:01	02/01/22 21:29	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00669**	**J**	0.0169	0.00326	mg/Kg		01/28/22 08:00	01/28/22 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.0	30.8	ug/Kg		02/07/22 14:39	02/07/22 16:33	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:09	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/04/22 14:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**201**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.942**		0.143	0.174	1.00	0.0398	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Radium-228	0.144	U	0.220	0.220		0.274	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Combined Radium 226 + 228	**1.09**		0.262	0.280		0.274	pCi/g	02/07/22 10:12	02/28/22 10:23	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19624-1	Cell17-Square 26-S-3-4-220124	97	94	94	111
860-19624-2	Cell17-Square 129-S-3-4-220124	98	94	95	112
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19624-1	Cell17-Square 26-S-3-4-220124	91
860-19624-2	Cell17-Square 129-S-3-4-220124	94
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19624-1	Cell17-Square 26-S-3-4-220124	79 *
860-19624-2	Cell17-Square 129-S-3-4-220124	81 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19624-1	Cell17-Square 26-S-3-4-220124	99	92	117	93	90	115
860-19624-2	Cell17-Square 129-S-3-4-220124	78	72	85	73	71	88

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-19624-1	Cell17-Square 26-S-3-4-220124	97	83										
860-19624-2	Cell17-Square 129-S-3-4-220124	97	83										
LCS 860-39365/2-A	Lab Control Sample	98	89										
LCSD 860-39365/3-A	Lab Control Sample Dup	96	87										
MB 860-39365/1-A	Method Blank	96	83										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-135)	(25-143)										
860-19624-1	Cell17-Square 26-S-3-4-220124	80	103										
860-19624-2	Cell17-Square 129-S-3-4-220124	71	109										
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	80	89										
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	78	106										
LCS 860-38890/2-A	Lab Control Sample	88	107										
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107										
MB 860-38890/1-A	Method Blank	95	115										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)										
860-19624-1	Cell17-Square 26-S-3-4-220124	64	88										
860-19624-2	Cell17-Square 129-S-3-4-220124	56	95										
LCS 860-38890/4-A	Lab Control Sample	72	86										
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87										
MB 860-38890/1-A	Method Blank	80	91										

Surrogate Legend

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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)
860-19624-1	Cell17-Square 26-S-3-4-220124	106
860-19624-2	Cell17-Square 129-S-3-4-220124	107
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	108
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	108
LCS 280-565272/2-A	Lab Control Sample	99
MB 280-565272/1-A	Method Blank	105

Surrogate Legend
12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)
860-19624-1	Cell17-Square 26-S-3-4-220124	103	105
860-19624-2	Cell17-Square 129-S-3-4-220124	103	106
DLCK 280-556129/13	Lab Control Sample	98	105
LCS 280-565681/2-A	Lab Control Sample	104	108
MB 280-565681/1-A	Method Blank	104	107

Surrogate Legend
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192640/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39365/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		01/28/22 11:36	01/29/22 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*01/28/22 11:36*	*01/29/22 01:53*	*1*

Lab Sample ID: LCS 860-39365/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	1063		mg/Kg		107	70 - 135
Diesel Range Organics (Over C10-C28)	996	1009		mg/Kg		101	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*65 - 130*
o-Terphenyl (Surr)	*89*		*65 - 130*

Lab Sample ID: LCSD 860-39365/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39342 **Prep Batch: 39365**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	1043		mg/Kg		105	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	996	959.8		mg/Kg		96	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*65 - 130*
o-Terphenyl (Surr)	*87*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: 860-19624-2 MS **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.253	U	16.6	19.76		ug/Kg		119	13 - 192
Aldrin	0.362	U	16.6	17.51		ug/Kg		105	30 - 152
Hexachlorocyclohexane, alpha-	0.679	U	16.6	16.34		ug/Kg		98	29 - 160
Hexachlorocyclohexane, beta-	0.473	U	16.6	18.79		ug/Kg		113	30 - 155
Hexachlorocyclohexane, delta-	0.832	U	16.6	17.27		ug/Kg		104	20 - 161
Dieldrin	0.169	U	16.6	19.24		ug/Kg		116	33 - 153
Endosulfan I	0.201	U	16.6	18.38		ug/Kg		110	30 - 151
Endosulfan II	0.372	U	16.6	17.64		ug/Kg		106	27 - 153
Endosulfan sulfate	0.275	U	16.6	18.79		ug/Kg		113	15 - 170
Endrin	0.290	U	16.6	20.49		ug/Kg		123	25 - 162
Endrin aldehyde	0.247	U	16.6	19.59	N1	ug/Kg		118	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.6	17.40		ug/Kg		105	30 - 158
Heptachlor	0.561	U	16.6	17.89		ug/Kg		108	29 - 163
Heptachlor epoxide	0.274	J	16.6	17.90		ug/Kg		106	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*89*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19624-2 MSD **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.253	U	16.7	18.23		ug/Kg		110	13 - 192	8	25
Aldrin	0.362	U	16.7	17.26		ug/Kg		104	30 - 152	1	25
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.33		ug/Kg		98	29 - 160	0	25
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.49		ug/Kg		111	30 - 155	2	25
Hexachlorocyclohexane, delta-	0.832	U	16.7	17.21		ug/Kg		103	20 - 161	0	25
Dieldrin	0.169	U	16.7	18.84		ug/Kg		113	33 - 153	2	25
Endosulfan I	0.201	U	16.7	17.98		ug/Kg		108	30 - 151	2	25
Endosulfan II	0.372	U	16.7	16.26		ug/Kg		98	27 - 153	8	25
Endosulfan sulfate	0.275	U	16.7	14.54		ug/Kg		87	15 - 170	25	25
Endrin	0.290	U	16.7	17.76		ug/Kg		107	25 - 162	14	25
Endrin aldehyde	0.247	U	16.7	17.57		ug/Kg		106	49 - 117	11	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	17.09		ug/Kg		103	30 - 158	2	25
Heptachlor	0.561	U	16.7	17.64		ug/Kg		106	29 - 163	1	25
Heptachlor epoxide	0.274	J	16.7	17.48		ug/Kg		103	30 - 150	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*106*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		35 - 140
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19624-2 DU **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U		0.0223	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U		0.0422	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0293	U		0.0302	U	mg/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*108*		*83 - 122*

Lab Sample ID: 860-19624-2 TRL **Client Sample ID: Cell17-Square 129-S-3-4-220124**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0217	U		0.0227	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0410	U		0.0429	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0293	U		0.0306	U	mg/Kg				NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*108*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-38773/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		01/25/22 11:00	01/25/22 11:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/25/22 11:00	01/25/22 11:46	1

Lab Sample ID: LCS 860-38773/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	106.3		mg/Kg		106	80 - 120		
Nitrate as N			100	103.4		mg/Kg		103	80 - 120		
Fluoride			100	106.1		mg/Kg		106	80 - 120		
Nitrite as N			50.0	47.19		mg/Kg		94	80 - 120		
Nitrate Nitrite as N			150	150.6		mg/Kg		100	80 - 120		
Sulfate			100	104.4		mg/Kg		104	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-38773/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38740 **Prep Batch: 38773**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	108.0		mg/Kg		108	80 - 120	2	20
Nitrate as N			100	102.5		mg/Kg		103	80 - 120	1	20
Fluoride			100	105.4		mg/Kg		105	80 - 120	1	20
Nitrite as N			50.0	46.96		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	149.5		mg/Kg		100	80 - 120	1	20
Sulfate			100	103.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39512/1-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0153	U	0.192	0.0153	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Arsenic	0.0593	U	0.385	0.0593	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Barium	0.0334	U	0.385	0.0334	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Beryllium	0.0178	U	0.192	0.0178	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Cadmium	0.0112	U	0.192	0.0112	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Chromium	0.0261	U	0.385	0.0261	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Copper	0.0251	U	0.385	0.0251	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Iron	0.225	U	1.92	0.225	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Manganese	0.0245	U	0.192	0.0245	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Lead	0.0186	U	0.192	0.0186	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Antimony	0.0114	U	0.192	0.0114	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Selenium	0.0477	U	0.192	0.0477	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Thallium	0.0230	U	0.192	0.0230	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Uranium	0.00575	U	0.0962	0.00575	mg/Kg		01/30/22 14:00	01/31/22 11:47	1
Zinc	0.0426	U	0.385	0.0426	mg/Kg		01/30/22 14:00	01/31/22 11:47	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39512/2-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.643		mg/Kg		97	80 - 120
Arsenic	9.62	9.906		mg/Kg		103	80 - 120
Barium	9.62	9.722		mg/Kg		101	80 - 120
Beryllium	9.62	9.485		mg/Kg		99	80 - 120
Cadmium	9.62	9.701		mg/Kg		101	80 - 120
Chromium	9.62	9.581		mg/Kg		100	80 - 120
Copper	9.62	9.468		mg/Kg		98	80 - 120
Iron	48.1	47.68		mg/Kg		99	80 - 120
Manganese	9.62	9.619		mg/Kg		100	80 - 120
Lead	9.62	9.385		mg/Kg		98	80 - 120
Antimony	9.62	9.135		mg/Kg		95	80 - 120
Selenium	9.62	9.890		mg/Kg		103	80 - 120
Thallium	9.62	9.440		mg/Kg		98	80 - 120
Uranium	2.40	2.233		mg/Kg		93	80 - 120
Zinc	9.62	10.25		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-39512/3-A
Matrix: Solid
Analysis Batch: 39615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.81	4.646		mg/Kg		97	80 - 120	0	20
Arsenic	9.62	9.841		mg/Kg		102	80 - 120	1	20
Barium	9.62	9.525		mg/Kg		99	80 - 120	2	20
Beryllium	9.62	9.511		mg/Kg		99	80 - 120	0	20
Cadmium	9.62	9.656		mg/Kg		100	80 - 120	0	20
Chromium	9.62	9.587		mg/Kg		100	80 - 120	0	20
Copper	9.62	9.432		mg/Kg		98	80 - 120	0	20
Iron	48.1	47.59		mg/Kg		99	80 - 120	0	20
Manganese	9.62	9.644		mg/Kg		100	80 - 120	0	20
Lead	9.62	9.392		mg/Kg		98	80 - 120	0	20
Antimony	9.62	9.353		mg/Kg		97	80 - 120	2	20
Selenium	9.62	9.806		mg/Kg		102	80 - 120	1	20
Thallium	9.62	9.427		mg/Kg		98	80 - 120	0	20
Uranium	2.40	2.261		mg/Kg		94	80 - 120	1	20
Zinc	9.62	10.02		mg/Kg		104	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39206/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 11:49	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39206/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1989		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 860-39206/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39206**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1998		mg/Kg		104	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40511/24-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/07/22 14:39	02/07/22 16:12	1

Lab Sample ID: LCS 860-40511/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40511/26-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40553 — **Prep Batch: 40511**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	54.17		ug/Kg		108	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 860-42223/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	5035	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8260B	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8270D	39007
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3546	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8270D	565562
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890
860-19624-2 MS	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890
860-19624-2 MSD	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8082A	38890
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8082A	38890
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8015B NM	39365
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8015B NM	39365
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015B NM	39365
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39365
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39365

Prep Batch: 39365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8015NM Prep	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8015NM Prep	
MB 860-39365/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39365/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39365/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 38740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9056A	38773
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9056A	38773
MB 860-38773/1-A	Method Blank	Total/NA	Solid	9056A	38773
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	9056A	38773
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	38773

Prep Batch: 38773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	300_Prep	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	300_Prep	
MB 860-38773/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-38773/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-38773/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	564725

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272
860-19624-2 DU	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272
860-19624-2 TRL	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6860	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6860	565161
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	PFC leach	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	7471A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	7471A	
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	7471A	39206
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	7471A	39206
MB 860-39206/10-A	Method Blank	Total/NA	Solid	7471A	39206
LCS 860-39206/11-A	Lab Control Sample	Total/NA	Solid	7471A	39206
LCSD 860-39206/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39206

Prep Batch: 39512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	3051A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	3051A	
MB 860-39512/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39512/1-A	Method Blank	Total/NA	Solid	6020A	39512
LCS 860-39512/2-A	Lab Control Sample	Total/NA	Solid	6020A	39512
LCSD 860-39512/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39512

Analysis Batch: 39892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	6020A	39512
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	6020A	39512

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Soluble	Solid	DI Leach	
860-19624-2	Cell17-Square 129-S-3-4-220124	Soluble	Solid	DI Leach	

Analysis Batch: 40331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Soluble	Solid	9045D	40316
860-19624-2	Cell17-Square 129-S-3-4-220124	Soluble	Solid	9045D	40316

Prep Batch: 40511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9012A	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9012A	
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9012A	40511
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9012A	40511
MB 860-40511/24-A	Method Blank	Total/NA	Solid	9012A	40511
LCS 860-40511/25-A	Lab Control Sample	Total/NA	Solid	9012A	40511
LLCS 860-40511/26-A	Lab Control Sample	Total/NA	Solid	9012A	40511

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	9066	42223
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	7 Day Leach	Solid	335.521	
860-19624-2	Cell17-Square 129-S-3-4-220124	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
860-19624-2	Cell17-Square 129-S-3-4-220124	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Dry and Grind	
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19624-1	Cell17-Square 26-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041
860-19624-2	Cell17-Square 129-S-3-4-220124	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 26-S-3-4-220124
Lab Sample ID: 860-19624-1
Date Collected: 01/24/22 12:10
Matrix: Solid
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.09 g	5 mL	192640	01/27/22 19:22	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 17:59	EM	XEN STF
Total/NA	Prep	3550C			30.09 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 17:27	LPL	XEN STF
Total/NA	Prep	3546			15.17 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 17:16	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:31	IS	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:41	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:31	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.35 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:25	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.98 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 18:01	ANP	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 18:01	ANP	XEN STF
Total/NA	Prep	6860			10.08 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:37	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.97 g	20.4 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 11:56	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:25	DCL	XEN STF
Total/NA	Prep	7471A			.56 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:04	SHZ	XEN STF
Total/NA	Prep	9012A			0.5195 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:32	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:06	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			319.5000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 10:21	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square 129-S-3-4-220124 **Lab Sample ID: 860-19624-2**
Date Collected: 01/24/22 12:40 **Matrix: Solid**
Date Received: 01/25/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.53 g	5 mL	192640	01/27/22 19:48	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 18:21	EM	XEN STF
Total/NA	Prep	3550C			30.04 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 17:47	LPL	XEN STF
Total/NA	Prep	3546			15.09 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 17:42	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	39365	01/28/22 11:36	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39342	01/29/22 03:51	IS	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			38895	01/26/22 16:57	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			38913	01/26/22 15:41	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.48 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 08:48	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.91 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38740	01/25/22 18:13	ANP	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	38773	01/25/22 11:00	ANP	XEN STF
Total/NA	Analysis	9056A		1			38741	01/25/22 18:13	ANP	XEN STF
Total/NA	Prep	6860			10.75 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:42	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.55 g	20.4 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:05	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	39512	01/30/22 14:01	PB	XEN STF
Total/NA	Analysis	6020A		10			39892	02/01/22 21:29	DCL	XEN STF
Total/NA	Prep	7471A			.59 g	50 mL	39206	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:06	SHZ	XEN STF
Total/NA	Prep	9012A			0.4837 g	6 mL	40511	02/07/22 14:39	CM1	XEN STF
Total/NA	Analysis	9012A		1			40553	02/07/22 16:33	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40316	02/04/22 12:59	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40331	02/04/22 14:13	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:09	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			299.6000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 10:23	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19624-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19624-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19624-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19624-1	Cell17-Square 26-S-3-4-220124	Solid	01/24/22 12:10	01/25/22 09:45
860-19624-2	Cell17-Square 129-S-3-4-220124	Solid	01/24/22 12:40	01/25/22 09:45

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 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 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 -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 1g	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:																		
Cell17-Square26-5-3-4-220124	1/24/22	1210	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell17-Square129-5-3-4-220124	1/24/22	1240	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB				Solid																	

Temp. 0.6 IR ID HOU-323
C/F +0.2
Corrected Temp: 0.8

860-19624 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: Cory Rodriguez	Date/Time: 1/24/22 1700	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: YCR S	Date/Time: 1/25/22 945	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:
Δ Yes Δ No		

Ver: 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9667.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/11/2022			
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, 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:						
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 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 out 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 complicance 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	FED EX	1/26/22 1700	EX	FED EX		
2	FED EX				JAN 28 2022 1120	ETA STL
3				Autumn R. Johnson		

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9662.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 4955 Yarrow Street,	Due Date Requested: 2/10/2022			
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	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 - 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	X	X	2	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 Central		Solid			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 out 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 complicance 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	YCRS	1/26/22 1700	EX		1/27/22 1005	ETATEN
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: ~~4.5~~ IR13CF 0.2 3.1 jm 1/27/22

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9668.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/11/2022			
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, 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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 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 out 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 complicance 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		1/26/22 1700	EX			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22 1424	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C IR8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19624-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/10/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square 26-S-3-4-220124 (860-19624-1)	1/24/22	12:10 Central		Solid			X	X	1	
Cell17-Square 129-S-3-4-220124 (860-19624-2)	1/24/22	12:40 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 out 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 complicance 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		1/26/22 1700	EX		01/27/2022 1130	EX
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: 3.0 AGIR-10 33

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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	0.8
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	0.8
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:41 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19624-1

Login Number: 19624 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:38 PM**
Creator: Rystrom, Joshua R

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?	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").	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: 860-19624-1

Login Number: 19624 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:50 PM**
Creator: Whitley, Adrian

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 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: 860-19624-1

Login Number: 19624 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19738-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:51:52 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19738-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable 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 Semi VOA

Qualifier	Qualifier Description
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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	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.
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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19738-1

Receipt
The samples were received on 1/26/2022 11:22 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 time was 4.7°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell19-Square 123-S-3-4-220125 (860-19738-1), Cell19-Square 94-S-3-4-220125 (860-19738-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; 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 Semi VOA
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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 9056A_ORGFM_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell19-Square 123-S-3-4-220125 (860-19738-1) and Cell19-Square 94-S-3-4-220125 (860-19738-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell19-Square 123-S-3-4-220125 (860-19738-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

Method PFC: During pH adjustment, the following samples required 3 mL of acid to reach the desired pH: Cell19-Square 94-S-3-4-220125 (860-19738-2). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell19-Square 123-S-3-4-220125 (860-19738-1), Cell19-Square 94-S-3-4-220125 (860-19738-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 Lab Sample ID: 860-19738-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.62	J	10.1	3.56	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.52		1.01	0.109	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.152	J b	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.68	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	112		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	1.74	J	3.45	0.532	mg/Kg	10		6020A	Total/NA
Barium	154		3.45	0.299	mg/Kg	10		6020A	Total/NA
Chromium	2.83	J	3.45	0.234	mg/Kg	10		6020A	Total/NA
Copper	1.82	J	3.45	0.225	mg/Kg	10		6020A	Total/NA
Iron	2390		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	31.4		1.72	0.219	mg/Kg	10		6020A	Total/NA
Lead	1.50	J	1.72	0.167	mg/Kg	10		6020A	Total/NA
Antimony	0.213	J	1.72	0.103	mg/Kg	10		6020A	Total/NA
Uranium	0.235	J	0.862	0.0515	mg/Kg	10		6020A	Total/NA
Zinc	8.45		3.45	0.382	mg/Kg	10		6020A	Total/NA
Mercury	0.00519	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
Cyanide, Total	34.0	J	58.1	28.8	ug/Kg	1		9012A	Total/NA
pH	8.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	206		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square 94-S-3-4-220125 Lab Sample ID: 860-19738-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.54	J	9.88	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	18.5		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	6.56		4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.101	J b	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	18.7	b	0.988	0.00494	mg/Kg	1		9056A	Total/NA
Sulfate	243		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	2.09	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	169		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.81	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.11	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1400		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	14.1		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.883	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.158	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.401	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	5.97		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00769	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	205		10.0	10.0	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: 860-19738-1

Client Sample ID: Cell19-Square 123-S-3-4-220125
Date Collected: 01/25/22 11:20
Date Received: 01/26/22 11:22

Lab Sample ID: 860-19738-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.680	U	4.66	0.680	ug/Kg			01/27/22 20:13	1
Chloromethane	1.12	U	4.66	1.12	ug/Kg			01/27/22 20:13	1
Vinyl chloride	0.559	U	4.66	0.559	ug/Kg			01/27/22 20:13	1
Bromomethane	1.02	U	4.66	1.02	ug/Kg			01/27/22 20:13	1
Trichlorofluoromethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Acrolein	8.01	U	46.6	8.01	ug/Kg			01/27/22 20:13	1
1,1-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
trans-1,2-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Methyl tert-butyl ether	0.568	U	4.66	0.568	ug/Kg			01/27/22 20:13	1
1,3-Dichlorobenzene	0.289	U	4.66	0.289	ug/Kg			01/27/22 20:13	1
Methylene Chloride	4.66	U	23.3	4.66	ug/Kg			01/27/22 20:13	1
Acrylonitrile	3.35	U	46.6	3.35	ug/Kg			01/27/22 20:13	1
cis-1,2-Dichloroethene	0.531	U	4.66	0.531	ug/Kg			01/27/22 20:13	1
Carbon tetrachloride	0.475	U	4.66	0.475	ug/Kg			01/27/22 20:13	1
Benzene	0.587	U	4.66	0.587	ug/Kg			01/27/22 20:13	1
1,2-Dichloroethane	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
Trichloroethene	0.261	U	4.66	0.261	ug/Kg			01/27/22 20:13	1
1,1,1-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
1,1-Dichloroethane	0.549	U	4.66	0.549	ug/Kg			01/27/22 20:13	1
1,2-Dichloropropane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
1,4-Dioxane	17.7	U	93.1	17.7	ug/Kg			01/27/22 20:13	1
Chloroform	0.810	U	4.66	0.810	ug/Kg			01/27/22 20:13	1
Bromodichloromethane	0.186	U	4.66	0.186	ug/Kg			01/27/22 20:13	1
1,1-Dichloropropene	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
cis-1,3-Dichloropropene	0.419	U	4.66	0.419	ug/Kg			01/27/22 20:13	1
Toluene	0.838	U	4.66	0.838	ug/Kg			01/27/22 20:13	1
trans-1,3-Dichloropropene	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
1,1,2-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/27/22 20:13	1
Tetrachloroethene	0.689	U *	4.66	0.689	ug/Kg			01/27/22 20:13	1
1,3-Dichloropropene, Total	0.484	U	4.66	0.484	ug/Kg			01/27/22 20:13	1
1,2-Dibromoethane	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Monochlorobenzene	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Ethylbenzene	0.419	U	4.66	0.419	ug/Kg			01/27/22 20:13	1
Xylenes, Total	0.466	U	9.31	0.466	ug/Kg			01/27/22 20:13	1
Styrene	0.279	U	4.66	0.279	ug/Kg			01/27/22 20:13	1
Tribromomethane	0.475	U	4.66	0.475	ug/Kg			01/27/22 20:13	1
1,1,2,2-Tetrachloroethane	0.354	U	4.66	0.354	ug/Kg			01/27/22 20:13	1
1,4-Dichlorobenzene	0.298	U	4.66	0.298	ug/Kg			01/27/22 20:13	1
1,2-Dichlorobenzene	0.233	U	4.66	0.233	ug/Kg			01/27/22 20:13	1
1,2,4-Trichlorobenzene	0.903	U	4.66	0.903	ug/Kg			01/27/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 20:13*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 20:13*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 20:13*	*1*
4-Bromofluorobenzene (Surr)	*114*		*61 - 142*		*01/27/22 20:13*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 18:43	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125
Lab Sample ID: 860-19738-1
Date Collected: 01/25/22 11:20
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 144*	*02/01/22 11:08*	*02/01/22 18:43*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.4	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*38*		*30 - 164*	*02/04/22 15:17*	*02/08/22 18:07*	*1*

Method: 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		01/27/22 07:14	01/28/22 18:07	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 **Lab Sample ID: 860-19738-1**
Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 18:07	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:07	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:14	01/28/22 18:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.665*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 18:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
2-Fluorophenol	*87*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
2,4,6-Tribromophenol	*102*		*19 - 122*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
Nitrobenzene-d5	*85*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
Phenol-d5 (Surr)	*84*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:07*	*1*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1
OII Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		02/01/22 12:49	02/01/22 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:28*	*1*
o-Terphenyl (Surr)	*111*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 13:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 **Lab Sample ID: 860-19738-1**
Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 13:21	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 135*	*01/26/22 08:34*	*01/28/22 13:21*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*25 - 143*	*01/26/22 08:34*	*01/28/22 13:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:21	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:21*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:21*	*1*

Method: 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		02/05/22 11:25	02/10/22 10:20	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/05/22 11:25	02/10/22 10:20	1
2,4,6-Trinitrotoluene	0.0297	U	0.0966	0.0297	mg/Kg		02/05/22 11:25	02/10/22 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 10:20*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.62**	**J**	10.1	3.56	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrate as N	**5.52**		1.01	0.109	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Fluoride	1.01	U	5.03	1.01	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrite as N	**0.152**	**J b**	1.01	0.0503	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Nitrate Nitrite as N	**5.68**	**b**	1.01	0.00503	mg/Kg		01/26/22 15:18	01/27/22 11:49	1
Sulfate	**112**		10.1	4.35	mg/Kg		01/26/22 15:18	01/27/22 11:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0777	U	0.472	0.0777	ug/Kg		02/03/22 17:49	02/08/22 18:48	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U H	0.771	0.222	ug/Kg		02/10/22 11:04	02/16/22 12:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.270	U H	0.771	0.270	ug/Kg		02/10/22 11:04	02/16/22 12:14	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U H	0.771	0.135	ug/Kg		02/10/22 11:04	02/16/22 12:14	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125 Lab Sample ID: 860-19738-1

Date Collected: 01/25/22 11:20 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:14	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 12:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.137	U	1.72	0.137	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Arsenic	**1.74**	**J**	3.45	0.532	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Barium	**154**		3.45	0.299	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Beryllium	0.160	U	1.72	0.160	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Cadmium	0.100	U	1.72	0.100	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Chromium	**2.83**	**J**	3.45	0.234	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Copper	**1.82**	**J**	3.45	0.225	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Iron	**2390**		17.2	2.02	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Manganese	**31.4**		1.72	0.219	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Lead	**1.50**	**J**	1.72	0.167	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Antimony	**0.213**	**J**	1.72	0.103	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Selenium	0.428	U	1.72	0.428	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Thallium	0.206	U	1.72	0.206	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Uranium	**0.235**	**J**	0.862	0.0515	mg/Kg		02/02/22 12:57	02/04/22 13:24	10
Zinc	**8.45**		3.45	0.382	mg/Kg		02/02/22 12:57	02/04/22 13:24	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00519**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**34.0**	**J**	58.1	28.8	ug/Kg		02/08/22 15:02	02/08/22 16:44	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:11	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**206**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.650**		0.181	0.197	1.00	0.145	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Radium-228	0.238	U	0.206	0.208		0.285	pCi/g	02/07/22 10:12	02/28/22 10:21	1
Combined Radium 226 + 228	**0.888**		0.274	0.286		0.285	pCi/g	02/07/22 10:12	02/28/22 10:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.661	U	4.53	0.661	ug/Kg			01/27/22 20:39	1
Chloromethane	1.09	U	4.53	1.09	ug/Kg			01/27/22 20:39	1
Vinyl chloride	0.543	U	4.53	0.543	ug/Kg			01/27/22 20:39	1
Bromomethane	0.996	U	4.53	0.996	ug/Kg			01/27/22 20:39	1
Trichlorofluoromethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Acrolein	7.79	U	45.3	7.79	ug/Kg			01/27/22 20:39	1
1,1-Dichloroethene	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
trans-1,2-Dichloroethene	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Methyl tert-butyl ether	0.553	U	4.53	0.553	ug/Kg			01/27/22 20:39	1
1,3-Dichlorobenzene	0.281	U	4.53	0.281	ug/Kg			01/27/22 20:39	1
Methylene Chloride	4.53	U	22.6	4.53	ug/Kg			01/27/22 20:39	1
Acrylonitrile	3.26	U	45.3	3.26	ug/Kg			01/27/22 20:39	1
cis-1,2-Dichloroethene	0.516	U	4.53	0.516	ug/Kg			01/27/22 20:39	1
Carbon tetrachloride	0.462	U	4.53	0.462	ug/Kg			01/27/22 20:39	1
Benzene	0.571	U	4.53	0.571	ug/Kg			01/27/22 20:39	1
1,2-Dichloroethane	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
Trichloroethene	0.254	U	4.53	0.254	ug/Kg			01/27/22 20:39	1
1,1,1-Trichloroethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
1,1-Dichloroethane	0.534	U	4.53	0.534	ug/Kg			01/27/22 20:39	1
1,2-Dichloropropane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
1,4-Dioxane	17.2	U	90.6	17.2	ug/Kg			01/27/22 20:39	1
Chloroform	0.788	U	4.53	0.788	ug/Kg			01/27/22 20:39	1
Bromodichloromethane	0.181	U	4.53	0.181	ug/Kg			01/27/22 20:39	1
1,1-Dichloropropene	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
cis-1,3-Dichloropropene	0.408	U	4.53	0.408	ug/Kg			01/27/22 20:39	1
Toluene	0.815	U	4.53	0.815	ug/Kg			01/27/22 20:39	1
trans-1,3-Dichloropropene	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
1,1,2-Trichloroethane	0.453	U	4.53	0.453	ug/Kg			01/27/22 20:39	1
Tetrachloroethene	0.670	U *	4.53	0.670	ug/Kg			01/27/22 20:39	1
1,3-Dichloropropene, Total	0.471	U	4.53	0.471	ug/Kg			01/27/22 20:39	1
1,2-Dibromoethane	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Monochlorobenzene	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Ethylbenzene	0.408	U	4.53	0.408	ug/Kg			01/27/22 20:39	1
Xylenes, Total	0.453	U	9.06	0.453	ug/Kg			01/27/22 20:39	1
Styrene	0.272	U	4.53	0.272	ug/Kg			01/27/22 20:39	1
Tribromomethane	0.462	U	4.53	0.462	ug/Kg			01/27/22 20:39	1
1,1,2,2-Tetrachloroethane	0.344	U	4.53	0.344	ug/Kg			01/27/22 20:39	1
1,4-Dichlorobenzene	0.290	U	4.53	0.290	ug/Kg			01/27/22 20:39	1
1,2-Dichlorobenzene	0.226	U	4.53	0.226	ug/Kg			01/27/22 20:39	1
1,2,4-Trichlorobenzene	0.879	U	4.53	0.879	ug/Kg			01/27/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 152*		*01/27/22 20:39*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 20:39*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 20:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 20:39*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.0000252	U	0.0000504	0.0000252	mg/Kg		02/01/22 11:08	02/01/22 19:04	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*	*02/01/22 11:08*	*02/01/22 19:04*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 18:33*	*1*

Method: 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		01/27/22 07:14	01/28/22 18:28	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/28/22 18:28	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:28	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 18:28	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*	*01/27/22 07:14*	*01/28/22 18:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
2-Fluorophenol	*59*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
2,4,6-Tribromophenol	*69*		*19 - 122*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
Nitrobenzene-d5	*62*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
Phenol-d5 (Surr)	*59*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:28*	*1*
p-Terphenyl-d14 (Surr)	*74*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/01/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:48*	*1*
o-Terphenyl (Surr)	*116*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:48*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 15:50	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/26/22 08:34	01/28/22 15:50	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 135*	*01/26/22 08:34*	*01/28/22 15:50*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*01/26/22 08:34*	*01/28/22 15:50*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:30	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:30*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:30*	*1*

Method: 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		02/05/22 11:25	02/10/22 10:43	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		02/05/22 11:25	02/10/22 10:43	1
2,4,6-Trinitrotoluene	0.0284	U	0.0926	0.0284	mg/Kg		02/05/22 11:25	02/10/22 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 10:43*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.54**	**J**	9.88	3.50	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrate as N	**18.5**		0.988	0.107	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Fluoride	**6.56**		4.94	0.988	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrite as N	**0.101**	**J b**	0.988	0.0494	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Nitrate Nitrite as N	**18.7**	**b**	0.988	0.00494	mg/Kg		01/26/22 15:18	01/27/22 12:01	1
Sulfate	**243**		9.88	4.27	mg/Kg		01/26/22 15:18	01/27/22 12:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0786	U	0.477	0.0786	ug/Kg		02/03/22 17:49	02/08/22 19:08	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U H	0.741	0.213	ug/Kg		02/10/22 11:04	02/16/22 12:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.259	U H	0.741	0.259	ug/Kg		02/10/22 11:04	02/16/22 12:23	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U H	0.741	0.130	ug/Kg		02/10/22 11:04	02/16/22 12:23	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 12:23	1
13C8 PFOS	107		70 - 130	02/10/22 11:04	02/16/22 12:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Arsenic	**2.09**	**J**	3.51	0.541	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Barium	**169**		3.51	0.304	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Chromium	**1.81**	**J**	3.51	0.238	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Copper	**1.11**	**J**	3.51	0.229	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Iron	**1400**		17.5	2.06	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Manganese	**14.1**		1.75	0.223	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Lead	**0.883**	**J**	1.75	0.170	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Antimony	**0.158**	**J**	1.75	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Uranium	**0.401**	**J**	0.877	0.0524	mg/Kg		02/02/22 12:57	02/04/22 13:27	10
Zinc	**5.97**		3.51	0.388	mg/Kg		02/02/22 12:57	02/04/22 13:27	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00769**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.1	30.8	ug/Kg		02/08/22 15:02	02/08/22 16:51	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**205**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.909**		0.171	0.202	1.00	0.0964	pCi/g	02/07/22 10:12	02/28/22 10:22	1
Radium-228	0.0942	U	0.195	0.195		0.273	pCi/g	02/07/22 10:12	02/28/22 10:22	1
Combined Radium 226 + 228	**1.00**		0.259	0.281		0.273	pCi/g	02/07/22 10:12	02/28/22 10:22	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19738-1	Cell19-Square 123-S-3-4-220125	93	94	93	114
860-19738-2	Cell19-Square 94-S-3-4-220125	95	94	95	112
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19738-1	Cell19-Square 123-S-3-4-220125	89
860-19738-2	Cell19-Square 94-S-3-4-220125	90
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19738-1	Cell19-Square 123-S-3-4-220125	38
860-19738-2	Cell19-Square 94-S-3-4-220125	85 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19738-1	Cell19-Square 123-S-3-4-220125	97	87	102	85	84	108
860-19738-2	Cell19-Square 94-S-3-4-220125	62	59	69	62	59	74

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-19738-1	Cell19-Square 123-S-3-4-220125	110	111										
860-19738-2	Cell19-Square 94-S-3-4-220125	114	116										
LCS 860-39790/2-A - RA	Lab Control Sample	107	100										
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103										
MB 860-39790/1-A - RA	Method Blank	105	97										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-135)	(25-143)										
860-19738-1	Cell19-Square 123-S-3-4-220125	67	81										
860-19738-2	Cell19-Square 94-S-3-4-220125	73	79										
LCS 860-38890/2-A	Lab Control Sample	88	107										
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107										
MB 860-38890/1-A	Method Blank	95	115										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)										
860-19738-1	Cell19-Square 123-S-3-4-220125	56	119										
860-19738-2	Cell19-Square 94-S-3-4-220125	62	124										
LCS 860-38890/4-A	Lab Control Sample	72	86										
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87										
MB 860-38890/1-A	Method Blank	80	91										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	12DNB1 (83-122)								
860-19738-1	Cell19-Square 123-S-3-4-220125	106								
860-19738-2	Cell19-Square 94-S-3-4-220125	105								
LCS 280-565272/2-A	Lab Control Sample	99								
MB 280-565272/1-A	Method Blank	105								

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)							
860-19738-1	Cell19-Square 123-S-3-4-220125	103	105							
860-19738-2	Cell19-Square 94-S-3-4-220125	103	107							
DLCK 280-556129/13	Lab Control Sample	98	105							
LCS 280-565681/2-A	Lab Control Sample	104	108							
MB 280-565681/1-A	Method Blank	104	107							

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: 860-19738-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

Lab Sample ID: LCS 860-39027/58-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39027/59-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N			100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride			100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N			50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate			100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39207/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.2007		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-39207/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1950		mg/Kg		101	80 - 120	3	20

Lab Sample ID: 860-19738-2 MS — **Client Sample ID: Cell19-Square 94-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00769	J	0.182	0.1789		mg/Kg		94	75 - 125

Lab Sample ID: 860-19738-2 MSD — **Client Sample ID: Cell19-Square 94-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00769	J	0.175	0.1743		mg/Kg		95	75 - 125	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	101.9		ug/Kg		102	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.87		ug/Kg		106	90 - 110		

Lab Sample ID: 860-19738-1 MS — **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	34.0	J	2400	1595	N1	ug/Kg		65	90 - 110		

Lab Sample ID: 860-19738-1 MSD — **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	34.0	J	2390	1578	N1	ug/Kg		64	90 - 110	1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			1.00	0.9730		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

Lab Sample ID: 860-19738-1 DU **Client Sample ID: Cell19-Square 123-S-3-4-220125**
Matrix: Solid **Prep Type: 7 Day Leach**
Analysis Batch: 193206

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	206		204.0		mg/L		1	20

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552706 **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	5035	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8260B	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3550C	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3546	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3550C	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8081B	38890

Analysis Batch: 39733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8015B NM	39790

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9056A	39027

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 38814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6860	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6860	565161
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	7471A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19738-2 MS	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	
860-19738-2 MSD	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207
860-19738-2 MS	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19738-2 MSD	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	3051A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Soluble	Solid	DI Leach	
860-19738-2	Cell19-Square 94-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19738-1 MS	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	
860-19738-1 MSD	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Soluble	Solid	9045D	40687
860-19738-2	Cell19-Square 94-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 40738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1 MS	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19738-1 MSD	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	9066	42223
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19738-2	Cell19-Square 94-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19738-1 DU	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19738-2	Cell19-Square 94-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19738-1 DU	Cell19-Square 123-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19738-1	Cell19-Square 123-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19738-2	Cell19-Square 94-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 123-S-3-4-220125
Lab Sample ID: 860-19738-1
Date Collected: 01/25/22 11:20
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.37 g	5 mL	192640	01/27/22 20:13	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 18:43	EM	XEN STF
Total/NA	Prep	3550C			30.06 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:07	LPL	XEN STF
Total/NA	Prep	3546			15.14 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:07	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:28	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 13:21	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:21	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.35 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 10:20	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 11:49	ANP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 11:49	ANP	XEN STF
Total/NA	Prep	6860			10.6 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 18:48	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.37 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:14	AGCM	TAL DEN
Total/NA	Prep	3051A			.58 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:24	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:57	SHZ	XEN STF
Total/NA	Prep	9012A			0.5163 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:44	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:11	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			316.4000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 10:21	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 94-S-3-4-220125 **Lab Sample ID: 860-19738-2**
Date Collected: 01/25/22 11:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.52 g	5 mL	192640	01/27/22 20:39	RJD	XEN CC
Total/NA	Prep	5035			496 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:04	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:28	LPL	XEN STF
Total/NA	Prep	3546			15.09 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:33	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:48	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 15:50	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:30	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.80 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 10:43	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:01	ANP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:01	ANP	XEN STF
Total/NA	Prep	6860			10.48 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:08	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.8 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:23	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:27	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.4832 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:51	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:25	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			342.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 10:22	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19738-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19738-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19738-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19738-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19738-1	Cell19-Square 123-S-3-4-220125	Solid	01/25/22 11:20	01/26/22 11:22
860-19738-2	Cell19-Square 94-S-3-4-220125	Solid	01/25/22 11:55	01/26/22 11:22

Page 259 of 1603

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-631-3011	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 -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	6850 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	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:																		
Cell 19-Square 123-S-3-4-220125	1/25/22	1120	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 19-Square 94-S-3-4-220125	1/25/22	1155	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19738 Chain of Custody

Temp: 4(.5 IR ID:HOU-323
C/F: +0.2
Corrected Temp: 4(.7

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: Cory Rodriguez	Date/Time: 1/25/22 1700	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Linda	Date/Time: 1/26/22 1122	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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/14/2022			
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, 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-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 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 out 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 complicance 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	1/26/22		FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Autumn R. Johnson	Date/Time: JAN 28 2022 1122	Company ETA STL
Relinquished 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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
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	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 - 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	X	X	2	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 Central		Solid			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 out 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 complicance 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
				1/18/22 1005	ETADEN
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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
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#:			

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:

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 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 out 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 complicance 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:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22/1921	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0°C IR8

Ver: 06/08/2021

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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.

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
11104 WEST AIRPORT

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 26JAN22
ACTWGT: 5.00 LB
CAD: 110189707/INET4460

BILL SENDER

TO PENSACOLA ENVIRON.
TESTAMERICA - PENSACOLA
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(281) 240-4200
INV:
PO:
REF:
DEPT:

0.0C
IN
AD

FedEx Express

J22182201850TUV

56DJ4/F289/FE4A

THU - 27 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 7758 8010 7427
0201

XH PNSA

32514
BFM
FL-US

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19738-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408	PO #:			
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	WO #:			
Email:				
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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square 123-5-3-4-220125 (860-19738-1)	1/25/22	11:20 Central		Solid			X	X	1	
Cell19-Square 94-5-3-4-220125 (860-19738-2)	1/25/22	11:55 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 out 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 complicance 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	1/26/22		Caitlyn Lewis	01/27/2022 1320	Ex
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: 2.9 C6 IR-10 2.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19738-1

Login Number: 19738 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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.	False	COC not relinquished.
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").	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: 860-19738-1

Login Number: 19738 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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 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: 860-19738-1

Login Number: 19738 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19745-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 5:53:11 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19745-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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	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.

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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19745-1

Receipt
The samples were received on 1/26/2022 11:22 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 time was 2.7°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell18-Square 180-S-3-4-220125 (860-19745-1), Cell18-Square 34-S-3-4-220125 (860-19745-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: Surrogate recovery for the following samples were outside the upper control limit: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

HPLC/IC
Method 9056A_ORGFM_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2) in preparation batch 280-564725 and 280-565272 by

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1 (Continued)

Laboratory: Eurofins Houston (Continued)

8330B_Sonc_10g for 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

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell18-Square 180-S-3-4-220125 (860-19745-1) and Cell18-Square 34-S-3-4-220125 (860-19745-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 3 mL of acid to reach the desired pH: Cell18-Square 180-S-3-4-220125 (860-19745-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell18-Square 180-S-3-4-220125 (860-19745-1), Cell18-Square 34-S-3-4-220125 (860-19745-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 — Lab Sample ID: 860-19745-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.37	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	11.9		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	6.38		4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.135	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.1	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	105		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	1.82	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	232		3.57	0.310	mg/Kg	10		6020A	Total/NA
Chromium	2.08	J	3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	0.986	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	1710		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	17.7		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	1.15	J	1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.140	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.295	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	8.37		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00540	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	9.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	148		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 34-S-3-4-220125 — Lab Sample ID: 860-19745-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.0		10.1	3.59	mg/Kg	1		9056A	Total/NA
Nitrate as N	21.2		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	7.90		5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.117	J b	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	21.4	b	1.01	0.00507	mg/Kg	1		9056A	Total/NA
Sulfate	159		10.1	4.38	mg/Kg	1		9056A	Total/NA
Perchlorate	0.104	J	0.486	0.0802	ug/Kg	1		6860	Total/NA
Arsenic	3.43	J	3.85	0.593	mg/Kg	10		6020A	Total/NA
Barium	216		3.85	0.334	mg/Kg	10		6020A	Total/NA
Chromium	2.80	J	3.85	0.261	mg/Kg	10		6020A	Total/NA
Copper	1.58	J	3.85	0.251	mg/Kg	10		6020A	Total/NA
Iron	2420		19.2	2.25	mg/Kg	10		6020A	Total/NA
Manganese	20.7		1.92	0.245	mg/Kg	10		6020A	Total/NA
Lead	1.41	J	1.92	0.186	mg/Kg	10		6020A	Total/NA
Antimony	0.142	J	1.92	0.114	mg/Kg	10		6020A	Total/NA
Uranium	0.446	J	0.962	0.0575	mg/Kg	10		6020A	Total/NA
Zinc	10.4		3.85	0.426	mg/Kg	10		6020A	Total/NA
Mercury	0.00750	J	0.0192	0.00370	mg/Kg	1		7471A	Total/NA
Cyanide, Total	32.0	J	60.8	30.1	ug/Kg	1		9012A	Total/NA
pH	9.1	HF			SU	1		9045D	Soluble
Total Dissolved Solids	213		10.0	10.0	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. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.720	U	4.93	0.720	ug/Kg			01/27/22 21:04	1
Chloromethane	1.18	U	4.93	1.18	ug/Kg			01/27/22 21:04	1
Vinyl chloride	0.592	U	4.93	0.592	ug/Kg			01/27/22 21:04	1
Bromomethane	1.08	U	4.93	1.08	ug/Kg			01/27/22 21:04	1
Trichlorofluoromethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Acrolein	8.48	U	49.3	8.48	ug/Kg			01/27/22 21:04	1
1,1-Dichloroethene	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
trans-1,2-Dichloroethene	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Methyl tert-butyl ether	0.602	U	4.93	0.602	ug/Kg			01/27/22 21:04	1
1,3-Dichlorobenzene	0.306	U	4.93	0.306	ug/Kg			01/27/22 21:04	1
Methylene Chloride	4.93	U	24.7	4.93	ug/Kg			01/27/22 21:04	1
Acrylonitrile	3.55	U	49.3	3.55	ug/Kg			01/27/22 21:04	1
cis-1,2-Dichloroethene	0.562	U	4.93	0.562	ug/Kg			01/27/22 21:04	1
Carbon tetrachloride	0.503	U	4.93	0.503	ug/Kg			01/27/22 21:04	1
Benzene	0.621	U	4.93	0.621	ug/Kg			01/27/22 21:04	1
1,2-Dichloroethane	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
Trichloroethene	0.276	U	4.93	0.276	ug/Kg			01/27/22 21:04	1
1,1,1-Trichloroethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
1,1-Dichloroethane	0.582	U	4.93	0.582	ug/Kg			01/27/22 21:04	1
1,2-Dichloropropane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
1,4-Dioxane	18.7	U	98.6	18.7	ug/Kg			01/27/22 21:04	1
Chloroform	0.858	U	4.93	0.858	ug/Kg			01/27/22 21:04	1
Bromodichloromethane	0.197	U	4.93	0.197	ug/Kg			01/27/22 21:04	1
1,1-Dichloropropene	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
cis-1,3-Dichloropropene	0.444	U	4.93	0.444	ug/Kg			01/27/22 21:04	1
Toluene	0.888	U	4.93	0.888	ug/Kg			01/27/22 21:04	1
trans-1,3-Dichloropropene	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
1,1,2-Trichloroethane	0.493	U	4.93	0.493	ug/Kg			01/27/22 21:04	1
Tetrachloroethene	0.730	U *	4.93	0.730	ug/Kg			01/27/22 21:04	1
1,3-Dichloropropene, Total	0.513	U	4.93	0.513	ug/Kg			01/27/22 21:04	1
1,2-Dibromoethane	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Monochlorobenzene	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Ethylbenzene	0.444	U	4.93	0.444	ug/Kg			01/27/22 21:04	1
Xylenes, Total	0.493	U	9.86	0.493	ug/Kg			01/27/22 21:04	1
Styrene	0.296	U	4.93	0.296	ug/Kg			01/27/22 21:04	1
Tribromomethane	0.503	U	4.93	0.503	ug/Kg			01/27/22 21:04	1
1,1,2,2-Tetrachloroethane	0.375	U	4.93	0.375	ug/Kg			01/27/22 21:04	1
1,4-Dichlorobenzene	0.316	U	4.93	0.316	ug/Kg			01/27/22 21:04	1
1,2-Dichlorobenzene	0.247	U	4.93	0.247	ug/Kg			01/27/22 21:04	1
1,2,4-Trichlorobenzene	0.957	U	4.93	0.957	ug/Kg			01/27/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*		*01/27/22 21:04*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 21:04*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 21:04*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 21:04*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00501	0.00251	mg/Kg		02/01/22 11:08	02/01/22 19:26	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125
Lab Sample ID: 860-19745-1
Date Collected: 01/25/22 08:35
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 144	02/01/22 11:08	02/01/22 19:26	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.2	11.9	ug/Kg		02/04/22 15:17	02/08/22 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	81	*	30 - 164	02/04/22 15:17	02/08/22 18:58	1

Method: 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		01/27/22 07:14	01/28/22 18:48	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125
Lab Sample ID: 860-19745-1
Date Collected: 01/25/22 08:35
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:14	01/28/22 18:48	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 18:48	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:14	01/28/22 18:48	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*	*01/27/22 07:14*	*01/28/22 18:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*111*		*30 - 115*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
2-Fluorophenol	*100*		*25 - 121*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
2,4,6-Tribromophenol	*124*	*X*	*19 - 122*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
Nitrobenzene-d5	*99*		*23 - 129*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
Phenol-d5 (Surr)	*100*		*24 - 113*	*01/27/22 07:14*	*01/28/22 18:48*	*1*
p-Terphenyl-d14 (Surr)	*129*		*18 - 137*	*01/27/22 07:14*	*01/28/22 18:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*65 - 130*	*02/01/22 12:48*	*02/02/22 18:41*	*1*
o-Terphenyl (Surr)	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 18:41*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 **Lab Sample ID: 860-19745-1**
Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:03	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:03*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:40	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:40*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:40*	*1*

Method: 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	0.0939	0.0213	mg/Kg		02/05/22 11:25	02/10/22 11:05	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0404	U	0.188	0.0404	mg/Kg		02/05/22 11:25	02/10/22 11:05	1
2,4,6-Trinitrotoluene	0.0288	U	0.0939	0.0288	mg/Kg		02/05/22 11:25	02/10/22 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:05*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.37**	**J**	9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrate as N	**11.9**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Fluoride	**6.38**		4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrite as N	**0.135**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Nitrate Nitrite as N	**12.1**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 12:13	1
Sulfate	**105**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 12:13	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0779	U	0.473	0.0779	ug/Kg		02/03/22 17:49	02/08/22 19:13	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U H	0.761	0.219	ug/Kg		02/10/22 11:04	02/16/22 12:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.266	U H	0.761	0.266	ug/Kg		02/10/22 11:04	02/16/22 12:31	1
Perfluorooctanesulfonic acid (PFOS)	0.133	U H	0.761	0.133	ug/Kg		02/10/22 11:04	02/16/22 12:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125 Lab Sample ID: 860-19745-1

Date Collected: 01/25/22 08:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*02/10/22 11:04*	*02/16/22 12:31*	*1*
13C8 PFOS	*106*		*70 - 130*	*02/10/22 11:04*	*02/16/22 12:31*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Arsenic	**1.82**	**J**	3.57	0.551	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Barium	**232**		3.57	0.310	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Beryllium	0.165	U	1.79	0.165	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Chromium	**2.08**	**J**	3.57	0.242	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Copper	**0.986**	**J**	3.57	0.233	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Iron	**1710**		17.9	2.09	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Manganese	**17.7**		1.79	0.227	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Lead	**1.15**	**J**	1.79	0.173	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Antimony	**0.140**	**J**	1.79	0.106	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Uranium	**0.295**	**J**	0.893	0.0534	mg/Kg		02/02/22 12:57	02/04/22 13:30	10
Zinc	**8.37**		3.57	0.395	mg/Kg		02/02/22 12:57	02/04/22 13:30	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00540**	**J**	0.0200	0.00384	mg/Kg		01/28/22 08:00	01/28/22 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.8	U	62.1	30.8	ug/Kg		02/08/22 15:02	02/08/22 16:52	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:27	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.2**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**148**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.536**		0.178	0.189	1.00	0.187	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Radium-228	0.0790	U	0.229	0.229		0.414	pCi/g	02/07/22 10:12	02/28/22 10:23	1
Combined Radium 226 + 228	**0.615**		0.290	0.297		0.414	pCi/g	02/07/22 10:12	02/28/22 10:23	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.616	U	4.22	0.616	ug/Kg			01/27/22 21:29	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/27/22 21:29	1
Vinyl chloride	0.506	U	4.22	0.506	ug/Kg			01/27/22 21:29	1
Bromomethane	0.927	U	4.22	0.927	ug/Kg			01/27/22 21:29	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Acrolein	7.25	U	42.2	7.25	ug/Kg			01/27/22 21:29	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Methyl tert-butyl ether	0.514	U	4.22	0.514	ug/Kg			01/27/22 21:29	1
1,3-Dichlorobenzene	0.261	U	4.22	0.261	ug/Kg			01/27/22 21:29	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/27/22 21:29	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/27/22 21:29	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/27/22 21:29	1
Carbon tetrachloride	0.430	U	4.22	0.430	ug/Kg			01/27/22 21:29	1
Benzene	0.531	U	4.22	0.531	ug/Kg			01/27/22 21:29	1
1,2-Dichloroethane	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/27/22 21:29	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
1,1-Dichloroethane	0.497	U	4.22	0.497	ug/Kg			01/27/22 21:29	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
1,4-Dioxane	16.0	U	84.3	16.0	ug/Kg			01/27/22 21:29	1
Chloroform	0.734	U	4.22	0.734	ug/Kg			01/27/22 21:29	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/27/22 21:29	1
1,1-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
cis-1,3-Dichloropropene	0.379	U	4.22	0.379	ug/Kg			01/27/22 21:29	1
Toluene	0.759	U	4.22	0.759	ug/Kg			01/27/22 21:29	1
trans-1,3-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 21:29	1
Tetrachloroethene	0.624	U *	4.22	0.624	ug/Kg			01/27/22 21:29	1
1,3-Dichloropropene, Total	0.438	U	4.22	0.438	ug/Kg			01/27/22 21:29	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Ethylbenzene	0.379	U	4.22	0.379	ug/Kg			01/27/22 21:29	1
Xylenes, Total	0.422	U	8.43	0.422	ug/Kg			01/27/22 21:29	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/27/22 21:29	1
Tribromomethane	0.430	U	4.22	0.430	ug/Kg			01/27/22 21:29	1
1,1,2,2-Tetrachloroethane	0.320	U	4.22	0.320	ug/Kg			01/27/22 21:29	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/27/22 21:29	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/27/22 21:29	1
1,2,4-Trichlorobenzene	0.818	U	4.22	0.818	ug/Kg			01/27/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 21:29*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 21:29*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 21:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*01/27/22 21:29*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00502	0.00251	mg/Kg		02/01/22 11:08	02/01/22 19:48	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*	*02/01/22 11:08*	*02/01/22 19:48*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.1	11.8	ug/Kg		02/04/22 15:17	02/08/22 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*81*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 19:24*	*1*

Method: 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		01/27/22 07:14	01/28/22 19:08	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:14	01/28/22 19:08	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:08	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:14	01/28/22 19:08	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*	*01/27/22 07:14*	*01/28/22 19:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*121*	*X*	*30 - 115*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
2-Fluorophenol	*115*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
2,4,6-Tribromophenol	*137*	*X*	*19 - 122*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
Nitrobenzene-d5	*109*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
Phenol-d5 (Surr)	*112*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:08*	*1*
p-Terphenyl-d14 (Surr)	*142*	*X*	*18 - 137*	*01/27/22 07:14*	*01/28/22 19:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*65 - 130*	*02/01/22 12:48*	*02/02/22 19:40*	*1*
o-Terphenyl (Surr)	*101*		*65 - 130*	*02/01/22 12:48*	*02/02/22 19:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.835	0.254	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Aldrin	0.363	U	0.835	0.363	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, alpha-	0.681	U	0.835	0.681	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, beta-	0.474	U	0.835	0.474	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, delta-	0.835	U	0.835	0.835	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Dieldrin	0.170	U	0.835	0.170	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan I	0.202	U	0.835	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan II	0.373	U	0.835	0.373	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endosulfan sulfate	0.276	U	0.835	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endrin	0.291	U	0.835	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Endrin aldehyde	0.248	U	0.835	0.248	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Hexachlorocyclohexane, gamma-	0.439	U	0.835	0.439	ug/Kg		01/26/22 08:34	01/28/22 16:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 **Lab Sample ID: 860-19745-2**
Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.563	U	0.835	0.563	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Heptachlor epoxide	0.245	U	0.835	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:17	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:17*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1221	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1232	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1242	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1248	0.00396	U	0.0167	0.00396	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 20:49	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:49*	*1*
DCB Decachlorobiphenyl (Surr)	*126*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:49*	*1*

Method: 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	0.0956	0.0217	mg/Kg		02/05/22 11:25	02/10/22 11:28	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0411	U	0.191	0.0411	mg/Kg		02/05/22 11:25	02/10/22 11:28	1
2,4,6-Trinitrotoluene	0.0293	U	0.0956	0.0293	mg/Kg		02/05/22 11:25	02/10/22 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:28*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.0**		10.1	3.59	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrate as N	**21.2**		1.01	0.110	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Fluoride	**7.90**		5.07	1.01	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrite as N	**0.117**	**J b**	1.01	0.0507	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Nitrate Nitrite as N	**21.4**	**b**	1.01	0.00507	mg/Kg		01/26/22 15:18	01/27/22 12:25	1
Sulfate	**159**		10.1	4.38	mg/Kg		01/26/22 15:18	01/27/22 12:25	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.104**	**J**	0.486	0.0802	ug/Kg		02/03/22 17:49	02/08/22 19:19	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.227	U H	0.791	0.227	ug/Kg		02/10/22 11:04	02/16/22 12:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U H	0.791	0.277	ug/Kg		02/10/22 11:04	02/16/22 12:40	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U H	0.791	0.138	ug/Kg		02/10/22 11:04	02/16/22 12:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125 Lab Sample ID: 860-19745-2

Date Collected: 01/25/22 09:05 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 12:40	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 12:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.153	U	1.92	0.153	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Arsenic	**3.43**	**J**	3.85	0.593	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Barium	**216**		3.85	0.334	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Beryllium	0.178	U	1.92	0.178	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Cadmium	0.112	U	1.92	0.112	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Chromium	**2.80**	**J**	3.85	0.261	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Copper	**1.58**	**J**	3.85	0.251	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Iron	**2420**		19.2	2.25	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Manganese	**20.7**		1.92	0.245	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Lead	**1.41**	**J**	1.92	0.186	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Antimony	**0.142**	**J**	1.92	0.114	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Selenium	0.477	U	1.92	0.477	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Thallium	0.230	U	1.92	0.230	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Uranium	**0.446**	**J**	0.962	0.0575	mg/Kg		02/02/22 12:57	02/04/22 13:33	10
Zinc	**10.4**		3.85	0.426	mg/Kg		02/02/22 12:57	02/04/22 13:33	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00750**	**J**	0.0192	0.00370	mg/Kg		01/28/22 08:00	01/28/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**32.0**	**J**	60.8	30.1	ug/Kg		02/08/22 15:02	02/08/22 16:54	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**213**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.87**		0.261	0.343	1.00	0.113	pCi/g	02/07/22 10:12	02/28/22 14:43	1
Radium-228	-0.207	U	0.290	0.291		0.582	pCi/g	02/07/22 10:12	02/28/22 14:43	1
Combined Radium 226 + 228	**1.67**		0.390	0.450		0.582	pCi/g	02/07/22 10:12	02/28/22 14:43	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19745-1	Cell18-Square 180-S-3-4-220125	94	95	95	112
860-19745-2	Cell18-Square 34-S-3-4-220125	92	94	93	113
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19745-1	Cell18-Square 180-S-3-4-220125	94
860-19745-2	Cell18-Square 34-S-3-4-220125	88
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19745-1	Cell18-Square 180-S-3-4-220125	81 *
860-19745-2	Cell18-Square 34-S-3-4-220125	81 *
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19745-1	Cell18-Square 180-S-3-4-220125	111	100	124 X	99	100	129
860-19745-2	Cell18-Square 34-S-3-4-220125	121 X	115	137 X	109	112	142 X

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(65-130)	(65-130)										
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	106	97										
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	106	99										
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	107	99										
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	110	101										
LCS 860-39790/2-A - RA	Lab Control Sample	107	100										
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103										
MB 860-39790/1-A - RA	Method Blank	105	97										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		TCX1	DCB1										
Lab Sample ID	Client Sample ID	(35-135)	(25-143)										
860-19745-1	Cell18-Square 180-S-3-4-220125	58	63										
860-19745-2	Cell18-Square 34-S-3-4-220125	76	68										
LCS 860-38890/2-A	Lab Control Sample	88	107										
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107										
MB 860-38890/1-A	Method Blank	95	115										

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)										
860-19745-1	Cell18-Square 180-S-3-4-220125	48	125										
860-19745-2	Cell18-Square 34-S-3-4-220125	61	126										
LCS 860-38890/4-A	Lab Control Sample	72	86										
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87										
MB 860-38890/1-A	Method Blank	80	91										

Surrogate Legend

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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)									
860-19745-1	Cell18-Square 180-S-3-4-220125	107									
860-19745-2	Cell18-Square 34-S-3-4-220125	106									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19745-1	Cell18-Square 180-S-3-4-220125	103	106								
860-19745-2	Cell18-Square 34-S-3-4-220125	104	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19745-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

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

Lab Sample ID: LCSD 560-192640/4
Matrix: Solid
Analysis Batch: 192640

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
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 39915
Prep Batch: 39790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 39915
Prep Batch: 39790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 39915
Prep Batch: 39790

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Lab Sample ID: 860-19745-1 MS
Client Sample ID: Cell18-Square 180-S-3-4-220125
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 39915
Prep Batch: 39790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	991	1001		mg/Kg		101	70 - 135
Diesel Range Organics (Over C10-C28) - RA	21.1	U	993	952.5		mg/Kg		96	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-19745-1 MS **Client Sample ID: Cell18-Square 180-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane - RA	106		65 - 130
o-Terphenyl (Surr) - RA	99		65 - 130

Lab Sample ID: 860-19745-1 MSD **Client Sample ID: Cell18-Square 180-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	994	1000		mg/Kg		101	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	21.1	U	996	974.2		mg/Kg		98	70 - 135	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	99		65 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		35 - 135	01/26/22 08:34	01/26/22 14:18	1
DCB Decachlorobiphenyl (Surr)	115		25 - 143	01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.14		ug/Kg		115	13 - 192		
Aldrin			16.7	18.43		ug/Kg		111	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	17.42		ug/Kg		105	29 - 160		
Hexachlorocyclohexane, beta-			16.7	19.15		ug/Kg		115	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.69		ug/Kg		106	20 - 161		
Dieldrin			16.7	19.24		ug/Kg		115	33 - 153		
Endosulfan I			16.7	18.57		ug/Kg		111	30 - 151		
Endosulfan II			16.7	17.20		ug/Kg		103	27 - 153		
Endosulfan sulfate			16.7	18.75		ug/Kg		112	15 - 170		
Endrin			16.7	20.31		ug/Kg		122	25 - 162		
Endrin aldehyde			16.7	18.29		ug/Kg		110	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	18.31		ug/Kg		110	30 - 158		
Heptachlor			16.7	18.86		ug/Kg		113	29 - 163		
Heptachlor epoxide			16.7	18.26		ug/Kg		110	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*

Lab Sample ID: LCSD 860-38890/5-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A
Matrix: Solid
Analysis Batch: 565637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565272

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene	1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

Lab Sample ID: LCSD 860-39027/59-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N	100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride	100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N	50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate	100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			20.0	20.31		ug/Kg		102	70 - 131		
Perfluorohexanesulfonic acid (PFHxS)			18.2	18.45		ug/Kg		101	70 - 135		
Perfluorooctanesulfonic acid (PFOS)			18.6	17.74		ug/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40322 **Prep Batch: 39983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39983/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40322 **Prep Batch: 39983**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

Lab Sample ID: LCS 860-39207/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.2007		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-39207/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39396 **Prep Batch: 39207**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	101.9		ug/Kg		102	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.87		ug/Kg		106	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 42401 — **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	5035	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8260B	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3550C	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3546	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3550C	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Prep Batch: 38890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8081B	38890

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1 - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19745-2 - RA	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790
860-19745-1 MS - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19745-1 MSD - RA	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6860	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6860	565161
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	7471A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	3051A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Soluble	Solid	DI Leach	
860-19745-2	Cell18-Square 34-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9012A	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Soluble	Solid	9045D	40687
860-19745-2	Cell18-Square 34-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	9066	42223
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19745-2	Cell18-Square 34-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19745-2	Cell18-Square 34-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19745-1	Cell18-Square 180-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19745-2	Cell18-Square 34-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 180-S-3-4-220125
Lab Sample ID: 860-19745-1
Date Collected: 01/25/22 08:35
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	5 mL	192640	01/27/22 21:04	RJD	XEN CC
Total/NA	Prep	5035			4.99 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:26	EM	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 18:48	LPL	XEN STF
Total/NA	Prep	3546			15.18 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 18:58	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.01 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 18:41	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:03	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:40	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.65 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:05	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:13	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:13	ANP	XEN STF
Total/NA	Prep	6860			10.58 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:13	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.51 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:31	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:30	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 12:58	SHZ	XEN STF
Total/NA	Prep	9012A			0.4831 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:52	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:27	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			225 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			306.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 10:23	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 34-S-3-4-220125
Lab Sample ID: 860-19745-2
Date Collected: 01/25/22 09:05
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.93 g	5 mL	192640	01/27/22 21:29	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 19:48	EM	XEN STF
Total/NA	Prep	3550C			30.05 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:08	LPL	XEN STF
Total/NA	Prep	3546			15.21 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 19:24	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.04 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 19:40	T1S	XEN STF
Total/NA	Prep	3550C			29.95 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:17	WP	XEN STF
Total/NA	Prep	3550C			29.95 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:49	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.46 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:28	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:25	ANP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:25	ANP	XEN STF
Total/NA	Prep	6860			10.28 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:19	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.12 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:40	AGCM	TAL DEN
Total/NA	Prep	3051A			.52 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:33	DCL	XEN STF
Total/NA	Prep	7471A			.52 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:00	SHZ	XEN STF
Total/NA	Prep	9012A			0.4937 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:54	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:30	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			291.7000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 14:43	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19745-1

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19745-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19745-1	Cell18-Square 180-S-3-4-220125	Solid	01/25/22 08:35	01/26/22 11:22
860-19745-2	Cell18-Square 34-S-3-4-220125	Solid	01/25/22 09:05	01/26/22 11:22

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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: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
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	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:																		
Cell 18-Square 180-5-3-4-220125	1/25/22	0835	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 18-Square 34-5-3-4-220125	1/25/22	0905	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

Temp 2.5 IR ID:HOU-323
C/F +0.2
Corrected Temp: 2.7

860-19745 Chain of Custody

TB

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements:

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by: Cory Rodriguez	1/25/22 1700	Arcadis	Received by:		
	Relinquished by: Michael	Date/Time:	Company	Received by:	Date/Time: 1/26/22 11:22	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:

Ver. 01/16/2019

Received by OCD: 7/18/2023 11:20:27 AM
Page 50 of 60
2/28/2022
Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
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, 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:						
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 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 out 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 complicance 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: FED EX	Date/Time: 1/26/22	Company	Received by: FED EX	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: JAN 28 2022 1120	Company FTA STL
Relinquished by:	Date/Time:	Company	Received by: Autumn R. Johnson	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
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	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 - 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	X	X	2	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 Central		Solid			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 out 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 complicance 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]	1/27/22 1005	FTADEN
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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
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#:			

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:

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 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 out 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 complicance 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: 1/28/22	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: 1-27-22 1921	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C IR8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19745-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell18-Square 180-5-3-4-220125 (860-19745-1)	1/25/22	08:35 Central		Solid			X	X	1	
Cell18-Square 34-5-3-4-220125 (860-19745-2)	1/25/22	09:05 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 out 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 complicance 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]	1/26/22		[signature]	01/27/2022 1:30	EX
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: 2.9 Co IR-10 2.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19745-1

Login Number: 19745 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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.	False	COC not relinquished.
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").	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: 860-19745-1

Login Number: 19745 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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 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: 860-19745-1

Login Number: 19745 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19754-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

SKudchadkar

Authorized for release by:
2/28/2022 5:54:05 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19754-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable 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 Semi VOA

Qualifier	Qualifier Description
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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	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.
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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19754-1

Receipt
The samples were received on 1/26/2022 11:22 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 time was 5.3°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell18-Square 134-S-3-4-220125 (860-19754-1), Cell18-Square 23-S-3-4-220125 (860-19754-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; 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 Semi VOA
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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 9056A_ORGFM_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell18-Square 134-S-3-4-220125 (860-19754-1) and Cell18-Square 23-S-3-4-220125 (860-19754-2). Method PFC_Leach/PFC.

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell18-Square 134-S-3-4-220125 (860-19754-1), Cell18-Square 23-S-3-4-220125 (860-19754-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 — Lab Sample ID: 860-19754-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.29	J	10.2	3.61	mg/Kg	1		9056A	Total/NA
Nitrate as N	15.0		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	5.04	J	5.10	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.114	J b	1.02	0.0510	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	15.1	b	1.02	0.00510	mg/Kg	1		9056A	Total/NA
Sulfate	62.8		10.2	4.41	mg/Kg	1		9056A	Total/NA
Perchlorate	0.126	J	0.472	0.0777	ug/Kg	1		6860	Total/NA
Arsenic	2.60	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	398		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	2.04	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.01	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	1510		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	18.6		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	0.881	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	0.127	J	1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.339	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	9.78		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00632	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	35.8	J	60.6	30.0	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	135		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell18-Square 23-S-3-4-220125 — Lab Sample ID: 860-19754-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.52		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	3.56	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.0793	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	4.60	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	29.4		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.66	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	171		3.64	0.315	mg/Kg	10		6020A	Total/NA
Chromium	1.88	J	3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	0.835	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	1600		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	16.9		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	0.990	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Uranium	0.316	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	6.05		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00441	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
Cyanide, Total	31.1	J	60.1	29.8	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	112		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Client Sample ID: Cell18-Square 134-S-3-4-220125
Date Collected: 01/25/22 10:02
Date Received: 01/26/22 11:22

Lab Sample ID: 860-19754-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.664	U	4.55	0.664	ug/Kg			01/31/22 17:57	1
Chloromethane	1.09	U	4.55	1.09	ug/Kg			01/31/22 17:57	1
Vinyl chloride	0.545	U	4.55	0.545	ug/Kg			01/31/22 17:57	1
Bromomethane	1.00	U	4.55	1.00	ug/Kg			01/31/22 17:57	1
Trichlorofluoromethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Acrolein	7.82	U	45.5	7.82	ug/Kg			01/31/22 17:57	1
1,1-Dichloroethene	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
trans-1,2-Dichloroethene	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Methyl tert-butyl ether	0.555	U	4.55	0.555	ug/Kg			01/31/22 17:57	1
1,3-Dichlorobenzene	0.282	U	4.55	0.282	ug/Kg			01/31/22 17:57	1
Methylene Chloride	4.55	U	22.7	4.55	ug/Kg			01/31/22 17:57	1
Acrylonitrile	3.27	U	45.5	3.27	ug/Kg			01/31/22 17:57	1
cis-1,2-Dichloroethene	0.518	U	4.55	0.518	ug/Kg			01/31/22 17:57	1
Carbon tetrachloride	0.464	U	4.55	0.464	ug/Kg			01/31/22 17:57	1
Benzene	0.573	U	4.55	0.573	ug/Kg			01/31/22 17:57	1
1,2-Dichloroethane	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
Trichloroethene	0.255	U	4.55	0.255	ug/Kg			01/31/22 17:57	1
1,1,1-Trichloroethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
1,1-Dichloroethane	0.536	U	4.55	0.536	ug/Kg			01/31/22 17:57	1
1,2-Dichloropropane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
1,4-Dioxane	17.3	U	90.9	17.3	ug/Kg			01/31/22 17:57	1
Chloroform	0.791	U	4.55	0.791	ug/Kg			01/31/22 17:57	1
Bromodichloromethane	0.182	U	4.55	0.182	ug/Kg			01/31/22 17:57	1
1,1-Dichloropropene	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
cis-1,3-Dichloropropene	0.409	U	4.55	0.409	ug/Kg			01/31/22 17:57	1
Toluene	0.818	U	4.55	0.818	ug/Kg			01/31/22 17:57	1
trans-1,3-Dichloropropene	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
1,1,2-Trichloroethane	0.455	U	4.55	0.455	ug/Kg			01/31/22 17:57	1
Tetrachloroethene	0.673	U	4.55	0.673	ug/Kg			01/31/22 17:57	1
1,3-Dichloropropene, Total	0.473	U	4.55	0.473	ug/Kg			01/31/22 17:57	1
1,2-Dibromoethane	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Monochlorobenzene	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Ethylbenzene	0.409	U	4.55	0.409	ug/Kg			01/31/22 17:57	1
Xylenes, Total	0.455	U	9.09	0.455	ug/Kg			01/31/22 17:57	1
Styrene	0.273	U	4.55	0.273	ug/Kg			01/31/22 17:57	1
Tribromomethane	0.464	U	4.55	0.464	ug/Kg			01/31/22 17:57	1
1,1,2,2-Tetrachloroethane	0.345	U	4.55	0.345	ug/Kg			01/31/22 17:57	1
1,4-Dichlorobenzene	0.291	U	4.55	0.291	ug/Kg			01/31/22 17:57	1
1,2-Dichlorobenzene	0.227	U	4.55	0.227	ug/Kg			01/31/22 17:57	1
1,2,4-Trichlorobenzene	0.882	U	4.55	0.882	ug/Kg			01/31/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*		*01/31/22 17:57*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 17:57*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:57*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:57*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 11:08	02/01/22 20:10	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Client Sample ID: Cell18-Square 134-S-3-4-220125
Date Collected: 01/25/22 10:02
Date Received: 01/26/22 11:22

Lab Sample ID: 860-19754-1
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*	*02/01/22 11:08*	*02/01/22 20:10*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.6	U	64.0	11.6	ug/Kg		02/04/22 15:17	02/08/22 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*68*		*30 - 164*	*02/04/22 15:17*	*02/08/22 19:49*	*1*

Method: 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		01/27/22 07:14	01/28/22 19:29	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4-Dinitrotoluene	12.8	U	167	12.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dinitrophenols	24.3	U	334	24.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Chrysene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Fluorene	13.9	U	167	13.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorobutadiene	13.9	U	167	13.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Indeno[1,2,3-cd]pyrene	13.5	U	167	13.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodiethylamine	22.0	U	167	22.0	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodiphenylamine	18.7	U	167	18.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125
Lab Sample ID: 860-19754-1
Date Collected: 01/25/22 10:02
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Pentachlorophenol	12.2	U	334	12.2	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Naphthalene	15.7	U	167	15.7	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
2-Methylnaphthalene	45.3	U	167	45.3	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Benzidine	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		01/27/22 07:14	01/28/22 19:29	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Atrazine	16.5	U	334	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:29	1
Thiophene, tetrahydro-, 1,1-dioxide	334	U	334	334	ug/Kg		01/27/22 07:14	01/28/22 19:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.668*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 19:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*30 - 115*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
2-Fluorophenol	*89*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
2,4,6-Tribromophenol	*111*		*19 - 122*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
Nitrobenzene-d5	*95*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:29*	*1*
p-Terphenyl-d14 (Surr)	*121*		*18 - 137*	*01/27/22 07:14*	*01/28/22 19:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/01/22 12:49	02/02/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*02/01/22 12:49*	*02/02/22 20:39*	*1*
o-Terphenyl (Surr)	*100*		*65 - 130*	*02/01/22 12:49*	*02/02/22 20:39*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endrin	0.291	U	0.832	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 **Lab Sample ID: 860-19754-1**
Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.832	0.562	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:31	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:31*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:59	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/26/22 08:34	01/27/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 140*	*01/26/22 08:34*	*01/27/22 20:59*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*37 - 142*	*01/26/22 08:34*	*01/27/22 20:59*	*1*

Method: 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	0.0987	0.0224	mg/Kg		02/05/22 11:25	02/10/22 11:51	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		02/05/22 11:25	02/10/22 11:51	1
2,4,6-Trinitrotoluene	0.0303	U	0.0987	0.0303	mg/Kg		02/05/22 11:25	02/10/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 11:51*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.29**	**J**	10.2	3.61	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrate as N	**15.0**		1.02	0.110	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Fluoride	**5.04**	**J**	5.10	1.02	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrite as N	**0.114**	**J b**	1.02	0.0510	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Nitrate Nitrite as N	**15.1**	**b**	1.02	0.00510	mg/Kg		01/26/22 15:18	01/27/22 12:37	1
Sulfate	**62.8**		10.2	4.41	mg/Kg		01/26/22 15:18	01/27/22 12:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.126**	**J**	0.472	0.0777	ug/Kg		02/03/22 17:49	02/08/22 19:24	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.229	U H	0.797	0.229	ug/Kg		02/10/22 11:04	02/16/22 12:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U H	0.797	0.279	ug/Kg		02/10/22 11:04	02/16/22 12:58	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U H	0.797	0.139	ug/Kg		02/10/22 11:04	02/16/22 12:58	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125 Lab Sample ID: 860-19754-1

Date Collected: 01/25/22 10:02 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	102		57 - 153	02/10/22 11:04	02/16/22 12:58	1
13C8 PFOS	107		70 - 130	02/10/22 11:04	02/16/22 12:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Arsenic	**2.60**	**J**	3.64	0.561	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Barium	**398**		3.64	0.315	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Chromium	**2.04**	**J**	3.64	0.247	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Copper	**1.01**	**J**	3.64	0.237	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Iron	**1510**		18.2	2.13	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Manganese	**18.6**		1.82	0.231	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Lead	**0.881**	**J**	1.82	0.176	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Antimony	**0.127**	**J**	1.82	0.108	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Uranium	**0.339**	**J**	0.909	0.0543	mg/Kg		02/02/22 12:57	02/04/22 13:36	10
Zinc	**9.78**		3.64	0.402	mg/Kg		02/02/22 12:57	02/04/22 13:36	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00632**	**J**	0.0189	0.00363	mg/Kg		01/28/22 08:00	01/28/22 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**35.8**	**J**	60.6	30.0	ug/Kg		02/08/22 15:02	02/08/22 16:24	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:33	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**135**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.24**		0.196	0.234	1.00	0.131	pCi/g	02/07/22 10:12	02/28/22 10:59	1
Radium-228	0.0720	U	0.228	0.228		0.281	pCi/g	02/07/22 10:12	02/28/22 10:59	1
Combined Radium 226 + 228	**1.31**		0.301	0.327		0.281	pCi/g	02/07/22 10:12	02/28/22 10:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 **Lab Sample ID: 860-19754-2**
Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.617	U	4.22	0.617	ug/Kg			01/27/22 22:20	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/27/22 22:20	1
Vinyl chloride	0.507	U	4.22	0.507	ug/Kg			01/27/22 22:20	1
Bromomethane	0.929	U	4.22	0.929	ug/Kg			01/27/22 22:20	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Acrolein	7.26	U	42.2	7.26	ug/Kg			01/27/22 22:20	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Methyl tert-butyl ether	0.515	U	4.22	0.515	ug/Kg			01/27/22 22:20	1
1,3-Dichlorobenzene	0.262	U	4.22	0.262	ug/Kg			01/27/22 22:20	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/27/22 22:20	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/27/22 22:20	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/27/22 22:20	1
Carbon tetrachloride	0.431	U	4.22	0.431	ug/Kg			01/27/22 22:20	1
Benzene	0.532	U	4.22	0.532	ug/Kg			01/27/22 22:20	1
1,2-Dichloroethane	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/27/22 22:20	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
1,1-Dichloroethane	0.498	U	4.22	0.498	ug/Kg			01/27/22 22:20	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
1,4-Dioxane	16.0	U	84.5	16.0	ug/Kg			01/27/22 22:20	1
Chloroform	0.735	U	4.22	0.735	ug/Kg			01/27/22 22:20	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/27/22 22:20	1
1,1-Dichloropropene	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
cis-1,3-Dichloropropene	0.380	U	4.22	0.380	ug/Kg			01/27/22 22:20	1
Toluene	0.760	U	4.22	0.760	ug/Kg			01/27/22 22:20	1
trans-1,3-Dichloropropene	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/27/22 22:20	1
Tetrachloroethene	0.625	U *	4.22	0.625	ug/Kg			01/27/22 22:20	1
1,3-Dichloropropene, Total	0.439	U	4.22	0.439	ug/Kg			01/27/22 22:20	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Ethylbenzene	0.380	U	4.22	0.380	ug/Kg			01/27/22 22:20	1
Xylenes, Total	0.422	U	8.45	0.422	ug/Kg			01/27/22 22:20	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/27/22 22:20	1
Tribromomethane	0.431	U	4.22	0.431	ug/Kg			01/27/22 22:20	1
1,1,2,2-Tetrachloroethane	0.321	U	4.22	0.321	ug/Kg			01/27/22 22:20	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/27/22 22:20	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/27/22 22:20	1
1,2,4-Trichlorobenzene	0.819	U	4.22	0.819	ug/Kg			01/27/22 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 22:20*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 22:20*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 22:20*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 22:20*	*1*

Method: 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		02/01/22 11:08	02/01/22 20:32	1

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Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125
Lab Sample ID: 860-19754-2
Date Collected: 01/25/22 09:35
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		63 - 144	02/01/22 11:08	02/01/22 20:32	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.5	11.7	ug/Kg		02/04/22 15:17	02/08/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	83	*	30 - 164	02/04/22 15:17	02/08/22 20:15	1

Method: 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		01/27/22 07:14	01/28/22 19:49	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 **Lab Sample ID: 860-19754-2**
Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Benzidine	12.1	U	334	12.1	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		01/27/22 07:14	01/28/22 19:49	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Atrazine	16.5	U	334	16.5	ug/Kg		01/27/22 07:14	01/28/22 19:49	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		01/27/22 07:14	01/28/22 19:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*01/27/22 07:14*	*01/28/22 19:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*99*		*30 - 115*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
2-Fluorophenol	*91*		*25 - 121*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
2,4,6-Tribromophenol	*113*		*19 - 122*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
Nitrobenzene-d5	*93*		*23 - 129*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/27/22 07:14*	*01/28/22 19:49*	*1*
p-Terphenyl-d14 (Surr)	*125*		*18 - 137*	*01/27/22 07:14*	*01/28/22 19:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1
Diesel Range Organics (Over C10-C28)	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1
OII Range Organics (Over C28-C36)	20.8	U	49.3	20.8	mg/Kg		02/01/22 12:49	02/01/22 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:08*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*02/01/22 12:49*	*02/01/22 22:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.834	0.254	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Aldrin	0.363	U	0.834	0.363	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, alpha-	0.681	U	0.834	0.681	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.834	0.474	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, delta-	0.834	U	0.834	0.834	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Dieldrin	0.170	U	0.834	0.170	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan I	0.202	U	0.834	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan II	0.372	U	0.834	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endosulfan sulfate	0.276	U	0.834	0.276	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endrin	0.291	U	0.834	0.291	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Endrin aldehyde	0.248	U	0.834	0.248	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.834	0.439	ug/Kg		01/26/22 08:34	01/28/22 16:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125
Lab Sample ID: 860-19754-2
Date Collected: 01/25/22 09:35
Matrix: Solid
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.563	U	0.834	0.563	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Heptachlor epoxide	0.245	U	0.834	0.245	ug/Kg		01/26/22 08:34	01/28/22 16:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:45*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 21:08	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/27/22 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:08*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:08*	*1*

Method: 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	0.0963	0.0219	mg/Kg		02/05/22 11:25	02/10/22 12:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0414	U	0.193	0.0414	mg/Kg		02/05/22 11:25	02/10/22 12:14	1
2,4,6-Trinitrotoluene	0.0296	U	0.0963	0.0296	mg/Kg		02/05/22 11:25	02/10/22 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 12:14*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.48	U	9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrate as N	**4.52**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Fluoride	**3.56**	**J**	4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrite as N	**0.0793**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Nitrate Nitrite as N	**4.60**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 12:49	1
Sulfate	**29.4**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 12:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0791	U	0.480	0.0791	ug/Kg		02/03/22 17:49	02/08/22 19:29	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U H	0.763	0.219	ug/Kg		02/10/22 11:04	02/16/22 13:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U H	0.763	0.267	ug/Kg		02/10/22 11:04	02/16/22 13:06	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U H	0.763	0.134	ug/Kg		02/10/22 11:04	02/16/22 13:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125 Lab Sample ID: 860-19754-2

Date Collected: 01/25/22 09:35 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 13:06	1
13C8 PFOS	106		70 - 130	02/10/22 11:04	02/16/22 13:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Arsenic	**2.66**	**J**	3.64	0.561	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Barium	**171**		3.64	0.315	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Beryllium	0.168	U	1.82	0.168	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Chromium	**1.88**	**J**	3.64	0.247	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Copper	**0.835**	**J**	3.64	0.237	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Iron	**1600**		18.2	2.13	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Manganese	**16.9**		1.82	0.231	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Lead	**0.990**	**J**	1.82	0.176	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Antimony	0.108	U	1.82	0.108	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Uranium	**0.316**	**J**	0.909	0.0543	mg/Kg		02/02/22 12:57	02/04/22 13:39	10
Zinc	**6.05**		3.64	0.402	mg/Kg		02/02/22 12:57	02/04/22 13:39	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00441**	**J**	0.0196	0.00377	mg/Kg		01/28/22 08:00	01/28/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.1**	**J**	60.1	29.8	ug/Kg		02/08/22 15:02	02/08/22 16:28	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:35	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**112**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.73**		0.242	0.300	1.00	0.0623	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Radium-228	0.183	U	0.325	0.326		0.373	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Combined Radium 226 + 228	**1.92**		0.405	0.443		0.373	pCi/g	02/07/22 10:12	02/28/22 11:00	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19754-1	Cell18-Square 134-S-3-4-220125	94	95	94	109
860-19754-2	Cell18-Square 23-S-3-4-220125	92	95	93	111
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCS 560-192708/3	Lab Control Sample	97	95	97	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19754-1	Cell18-Square 134-S-3-4-220125	93
860-19754-2	Cell18-Square 23-S-3-4-220125	90
LCS 860-39864/11	Lab Control Sample	90
LCSD 860-39864/12	Lab Control Sample Dup	92
MB 860-39864/16	Method Blank	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19754-1	Cell18-Square 134-S-3-4-220125	68

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		TPP								
Lab Sample ID	Client Sample ID	(30-164)								
860-19754-2	Cell18-Square 23-S-3-4-220125	83 *								
LCS 400-565562/2-A	Lab Control Sample	95 *								
MB 400-565562/1-A	Method Blank	80								

Surrogate Legend

TPP = Triphenylphosphate

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)		
860-19754-1	Cell18-Square 134-S-3-4-220125	98	89	111	95	89	121		
860-19754-2	Cell18-Square 23-S-3-4-220125	99	91	113	93	89	125		

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(65-130)	(65-130)						
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	109	100						
860-19754-2	Cell18-Square 23-S-3-4-220125	113	114						
LCS 860-39790/2-A - RA	Lab Control Sample	107	100						
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103						
MB 860-39790/1-A - RA	Method Blank	105	97						

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX1	DCB1						
Lab Sample ID	Client Sample ID	(35-135)	(25-143)						
860-19754-1	Cell18-Square 134-S-3-4-220125	75	59						
860-19754-2	Cell18-Square 23-S-3-4-220125	72	65						
LCS 860-38890/2-A	Lab Control Sample	88	107						
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107						
MB 860-38890/1-A	Method Blank	95	115						

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend
TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)
860-19754-1	Cell18-Square 134-S-3-4-220125	63	121
860-19754-2	Cell18-Square 23-S-3-4-220125	60	118
LCS 860-38890/4-A	Lab Control Sample	72	86
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87
MB 860-38890/1-A	Method Blank	80	91

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)
		12DNB1
Lab Sample ID	Client Sample ID	(83-122)
860-19754-1	Cell18-Square 134-S-3-4-220125	105
860-19754-2	Cell18-Square 23-S-3-4-220125	108
LCS 280-565272/2-A	Lab Control Sample	99
MB 280-565272/1-A	Method Blank	105

Surrogate Legend
12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)	
		C8PFOA	C8PFOS
Lab Sample ID	Client Sample ID	(57-153)	(70-130)
860-19754-1	Cell18-Square 134-S-3-4-220125	102	107
860-19754-2	Cell18-Square 23-S-3-4-220125	104	106
DLCK 280-556129/13	Lab Control Sample	98	105
LCS 280-565681/2-A	Lab Control Sample	104	108
MB 280-565681/1-A	Method Blank	104	107

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: 860-19754-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

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

Lab Sample ID: LCS 560-192640/3
Matrix: Solid
Analysis Batch: 192640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192640/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 560-192708/7 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192708/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

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

Lab Sample ID: LCSD 560-192708/4
Matrix: Solid
Analysis Batch: 192708

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
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565810 — **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	19.14		ug/Kg		115	13 - 192
Aldrin	16.7	18.43		ug/Kg		111	30 - 152
Hexachlorocyclohexane, alpha-	16.7	17.42		ug/Kg		105	29 - 160
Hexachlorocyclohexane, beta-	16.7	19.15		ug/Kg		115	30 - 155
Hexachlorocyclohexane, delta-	16.7	17.69		ug/Kg		106	20 - 161
Dieldrin	16.7	19.24		ug/Kg		115	33 - 153
Endosulfan I	16.7	18.57		ug/Kg		111	30 - 151
Endosulfan II	16.7	17.20		ug/Kg		103	27 - 153
Endosulfan sulfate	16.7	18.75		ug/Kg		112	15 - 170
Endrin	16.7	20.31		ug/Kg		122	25 - 162
Endrin aldehyde	16.7	18.29		ug/Kg		110	49 - 117
Hexachlorocyclohexane, gamma-	16.7	18.31		ug/Kg		110	30 - 158
Heptachlor	16.7	18.86		ug/Kg		113	29 - 163
Heptachlor epoxide	16.7	18.26		ug/Kg		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	18.62		ug/Kg		112	13 - 192	3	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-38890/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-	16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-	16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-	16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin	16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I	16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II	16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate	16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin	16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde	16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-	16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor	16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide	16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.167	0.1416		mg/Kg		85	27 - 121
Aroclor 1260	0.167	0.1484		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-38890/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	86		37 - 142

Lab Sample ID: LCSD 860-38890/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38913 **Prep Batch: 38890**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	67		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39027/59-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 38814 — **Prep Batch: 39027**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N			100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride			100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N			50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate			100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565161/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565540 — **Prep Batch: 565161**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5047		ug/Kg		101	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19754-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20
Selenium	9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium	9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium	2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc	9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A
Matrix: Solid
Analysis Batch: 39396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39207/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.192	0.2007		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 860-39207/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	101.9		ug/Kg		102	90 - 110		

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.87		ug/Kg		106	90 - 110		

Lab Sample ID: 860-19754-1 MS — **Client Sample ID: Cell18-Square 134-S-3-4-220125**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	35.8	J	2440	1410	N1	ug/Kg		56	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 860-19754-1 MSD **Client Sample ID: Cell18-Square 134-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40738 **Prep Batch: 40711**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	35.8	J	2450	1392	N1	ug/Kg		55	90 - 110	1	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42223/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 12:48	1

Lab Sample ID: LCS 860-42223/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	0.9730		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 860-42223/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 42401 **Prep Batch: 42223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	0.9910		mg/Kg		99	90 - 110	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	5035	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3550C	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8270D	39007
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8270D	39007

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3546	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3546	
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3550C	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8081B	38890

Analysis Batch: 39733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8015B NM	39790

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 - RA	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6860	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6860	565161
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	7471A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	3051A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Soluble	Solid	DI Leach	
860-19754-2	Cell18-Square 23-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19754-1 MS	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	
860-19754-1 MSD	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Soluble	Solid	9045D	40687
860-19754-2	Cell18-Square 23-S-3-4-220125	Soluble	Solid	9045D	40687

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 40738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1 MS	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19754-1 MSD	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
MB 860-42223/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	9066	42223
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	9066	42223
MB 860-42223/1-A	Method Blank	Total/NA	Solid	9066	42223
LCS 860-42223/2-A	Lab Control Sample	Total/NA	Solid	9066	42223
LCSD 860-42223/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19754-2	Cell18-Square 23-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19754-2	Cell18-Square 23-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19754-1	Cell18-Square 134-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19754-2	Cell18-Square 23-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 134-S-3-4-220125
Lab Sample ID: 860-19754-1
Date Collected: 01/25/22 10:02
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.5 g	5 mL	192708	01/31/22 17:57	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:10	EM	XEN STF
Total/NA	Prep	3550C			29.94 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:29	LPL	XEN STF
Total/NA	Prep	3546			15.48 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 19:49	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		9.99 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:39	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:31	WP	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 20:59	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 11:51	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.90 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:37	ANP	XEN STF
Total/NA	Prep	300_Prep			4.90 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:37	ANP	XEN STF
Total/NA	Prep	6860			10.6 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:24	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.04 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 12:58	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:36	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:01	SHZ	XEN STF
Total/NA	Prep	9012A			0.4954 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:24	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:33	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			302.4000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 10:59	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square 23-S-3-4-220125
Lab Sample ID: 860-19754-2
Date Collected: 01/25/22 09:35
Matrix: Solid
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.92 g	5 mL	192640	01/27/22 22:20	RJD	XEN CC
Total/NA	Prep	5035			5.03 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:32	EM	XEN STF
Total/NA	Prep	3550C			29.98 g	1 mL	39007	01/27/22 07:14	JN	XEN STF
Total/NA	Analysis	8270D		1			39315	01/28/22 19:49	LPL	XEN STF
Total/NA	Prep	3546			15.36 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 20:15	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	39790	02/01/22 12:49	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39733	02/01/22 22:08	T1S	XEN STF
Total/NA	Prep	3550C			29.98 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:45	WP	XEN STF
Total/NA	Prep	3550C			29.98 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:08	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.38 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 12:14	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 12:49	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 12:49	ANP	XEN STF
Total/NA	Prep	6860			10.42 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:29	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.48 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:06	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:39	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:02	SHZ	XEN STF
Total/NA	Prep	9012A			0.4990 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:28	CM1	XEN STF
Soluble	Leach	DI Leach			20.05 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.05 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:35	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			283.6000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 11:00	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19754-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19754-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19754-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19754-1	Cell18-Square 134-S-3-4-220125	Solid	01/25/22 10:02	01/26/22 11:22
860-19754-2	Cell18-Square 23-S-3-4-220125	Solid	01/25/22 09:35	01/26/22 11:22

Released to Imaging: 1/29/2025 3:31:29 PM

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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: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
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	8260 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	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:																		
Cell 18-Square 134-S-3-4-220125	1-25-22	1002	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 18-Square 23-S-3-4-220125	1-25-22	0935	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB				Solid																	

860-19754 Chain of Custody

Temp: 5.1 IR ID: HOU-323
C/F: +0.2
Corrected Temp: 5.3

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
	[redacted]	1/29/22 1200	Arcadis	[redacted]		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/29/22 1527	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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
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, 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:						
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 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 out 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 complicance 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	Linda FEDEX	1/26/22		FEDEX		
2	FEDEX					
3				Autumn R. Johnson	JAN 28 2022 1120	ETAST

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
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, 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	X	X	2	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 Central		Solid			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 out 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 complicance 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
				1/18/22 1005	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: 1.4 IR13 CF-0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

s Houston
eenbriar Dr
ford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
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, 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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 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 out 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 complicance 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:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22/1924	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-0°C CF8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19754-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell18-Square 134-5-3-4-220125 (860-19754-1)	1/25/22	10:02 Central		Solid			X	X	1	
Cell18-Square 23-5-3-4-220125 (860-19754-2)	1/25/22	09:35 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 out 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 complicance 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	1/26/22		Caitlyn Forester	01/27/2022 1130	EX
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: 2.9 CG 2.8 IR-10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19754-1

Login Number: 19754 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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.	False	COC not relinquished.
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").	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: 860-19754-1

Login Number: 19754 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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 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: 860-19754-1

Login Number: 19754 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19761-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:02:11 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19761-1

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Released to Imaging: 1/29/2025 3:31:29 PM

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
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.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

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
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.

LCMS

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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	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.

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
DLC	Decision Level Concentration (Radiochemistry)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19761-1

Receipt
The samples were received on 1/26/2022 11:22 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 time was 3.3°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192640: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D_AgChem: Internal standard (ISTD) response for Prometon for the following samples in analytical batch 400-565810 was outside acceptance criteria: Cell19-Square 193-S-3-4-220125 (860-19761-1), Cell19-Square 6-S-3-4-220125 (860-19761-2), (LCS 400-565562/2-A), (MB 400-565562/1-A), (860-19619-G-1-C), (860-19619-G-1-A MS) and (860-19619-G-1-B MSD). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8270D: The surrogate recovery for the blank associated with preparation batch 860-39056 and analytical batch 860-39132 was outside the upper control limits.

Method 8270D: The matrix spike duplicate (MSD) precision for preparation batch 860-39056 and analytical batch 860-39132 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 Semi VOA
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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 9056A_ORGFM_48H: The method blank for preparation batch 860-39027 and analytical batch 860-38815 contained nitrite above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction <and_or> re-analysis of samples was not performed.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

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Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 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

Method PFC: In preparation batch 280-565681, the following samples were re-prepared outside of preparation holding time due to the samples in the original batch being extracted but not filtered and sent on to the instrument analyst: Cell19-Square 193-S-3-4-220125 (860-19761-1) and Cell19-Square 6-S-3-4-220125 (860-19761-2). Method PFC_Leach/PFC.

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell19-Square 193-S-3-4-220125 (860-19761-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell19-Square 193-S-3-4-220125 (860-19761-1), Cell19-Square 6-S-3-4-220125 (860-19761-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 — Lab Sample ID: 860-19761-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.4		10.1	3.56	mg/Kg	1		9056A	Total/NA
Nitrate as N	12.4		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	4.64	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.0846	J b	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.4	b	1.01	0.00503	mg/Kg	1		9056A	Total/NA
Sulfate	174		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	3.90		3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	287		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.72	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.13	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1350		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	13.1		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.829	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.118	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.524	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	6.92		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00755	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	169		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell19-Square 6-S-3-4-220125 — Lab Sample ID: 860-19761-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16.9		9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	5.90		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	6.30		4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.116	J b	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.01	b	0.984	0.00492	mg/Kg	1		9056A	Total/NA
Sulfate	126		9.84	4.25	mg/Kg	1		9056A	Total/NA
Perchlorate	0.321	J	0.457	0.0754	ug/Kg	1		6860	Total/NA
Arsenic	3.43	J	3.85	0.593	mg/Kg	10		6020A	Total/NA
Barium	331		3.85	0.334	mg/Kg	10		6020A	Total/NA
Beryllium	0.190	J	1.92	0.178	mg/Kg	10		6020A	Total/NA
Chromium	4.11		3.85	0.261	mg/Kg	10		6020A	Total/NA
Copper	1.55	J	3.85	0.251	mg/Kg	10		6020A	Total/NA
Iron	3490		19.2	2.25	mg/Kg	10		6020A	Total/NA
Manganese	25.6		1.92	0.245	mg/Kg	10		6020A	Total/NA
Lead	1.90	J	1.92	0.186	mg/Kg	10		6020A	Total/NA
Antimony	0.188	J	1.92	0.114	mg/Kg	10		6020A	Total/NA
Uranium	0.538	J	0.962	0.0575	mg/Kg	10		6020A	Total/NA
Zinc	10.2		3.85	0.426	mg/Kg	10		6020A	Total/NA
Mercury	0.0125	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	37.0	J	61.5	30.5	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	178		10.0	10.0	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. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.613	U	4.20	0.613	ug/Kg			01/27/22 22:45	1
Chloromethane	1.01	U	4.20	1.01	ug/Kg			01/27/22 22:45	1
Vinyl chloride	0.504	U	4.20	0.504	ug/Kg			01/27/22 22:45	1
Bromomethane	0.924	U	4.20	0.924	ug/Kg			01/27/22 22:45	1
Trichlorofluoromethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Acrolein	7.23	U	42.0	7.23	ug/Kg			01/27/22 22:45	1
1,1-Dichloroethene	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
trans-1,2-Dichloroethene	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Methyl tert-butyl ether	0.513	U	4.20	0.513	ug/Kg			01/27/22 22:45	1
1,3-Dichlorobenzene	0.261	U	4.20	0.261	ug/Kg			01/27/22 22:45	1
Methylene Chloride	4.20	U	21.0	4.20	ug/Kg			01/27/22 22:45	1
Acrylonitrile	3.03	U	42.0	3.03	ug/Kg			01/27/22 22:45	1
cis-1,2-Dichloroethene	0.479	U	4.20	0.479	ug/Kg			01/27/22 22:45	1
Carbon tetrachloride	0.429	U	4.20	0.429	ug/Kg			01/27/22 22:45	1
Benzene	0.529	U	4.20	0.529	ug/Kg			01/27/22 22:45	1
1,2-Dichloroethane	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
Trichloroethene	0.235	U	4.20	0.235	ug/Kg			01/27/22 22:45	1
1,1,1-Trichloroethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
1,1-Dichloroethane	0.496	U	4.20	0.496	ug/Kg			01/27/22 22:45	1
1,2-Dichloropropane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
1,4-Dioxane	16.0	U	84.0	16.0	ug/Kg			01/27/22 22:45	1
Chloroform	0.731	U	4.20	0.731	ug/Kg			01/27/22 22:45	1
Bromodichloromethane	0.168	U	4.20	0.168	ug/Kg			01/27/22 22:45	1
1,1-Dichloropropene	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
cis-1,3-Dichloropropene	0.378	U	4.20	0.378	ug/Kg			01/27/22 22:45	1
Toluene	0.756	U	4.20	0.756	ug/Kg			01/27/22 22:45	1
trans-1,3-Dichloropropene	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
1,1,2-Trichloroethane	0.420	U	4.20	0.420	ug/Kg			01/27/22 22:45	1
Tetrachloroethene	0.622	U *	4.20	0.622	ug/Kg			01/27/22 22:45	1
1,3-Dichloropropene, Total	0.437	U	4.20	0.437	ug/Kg			01/27/22 22:45	1
1,2-Dibromoethane	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Monochlorobenzene	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Ethylbenzene	0.378	U	4.20	0.378	ug/Kg			01/27/22 22:45	1
Xylenes, Total	0.420	U	8.40	0.420	ug/Kg			01/27/22 22:45	1
Styrene	0.252	U	4.20	0.252	ug/Kg			01/27/22 22:45	1
Tribromomethane	0.429	U	4.20	0.429	ug/Kg			01/27/22 22:45	1
1,1,2,2-Tetrachloroethane	0.319	U	4.20	0.319	ug/Kg			01/27/22 22:45	1
1,4-Dichlorobenzene	0.269	U	4.20	0.269	ug/Kg			01/27/22 22:45	1
1,2-Dichlorobenzene	0.210	U	4.20	0.210	ug/Kg			01/27/22 22:45	1
1,2,4-Trichlorobenzene	0.815	U	4.20	0.815	ug/Kg			01/27/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/27/22 22:45*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 22:45*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 22:45*	*1*
4-Bromofluorobenzene (Surr)	*112*		*61 - 142*		*01/27/22 22:45*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00502	0.00251	mg/Kg		02/01/22 11:08	02/01/22 20:54	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125
Lab Sample ID: 860-19761-1
Date Collected: 01/25/22 12:55
Matrix: Solid
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*	*02/01/22 11:08*	*02/01/22 20:54*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.6	11.7	ug/Kg		02/04/22 15:17	02/08/22 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*	*	*30 - 164*	*02/04/22 15:17*	*02/08/22 20:40*	*1*

Method: 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		01/27/22 07:17	01/27/22 21:19	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:17	01/27/22 21:19	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 21:19	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:17	01/27/22 21:19	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*	*01/27/22 07:17*	*01/27/22 21:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*113*		*30 - 115*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
2-Fluorophenol	*102*		*25 - 121*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
2,4,6-Tribromophenol	*116*		*19 - 122*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
Nitrobenzene-d5	*109*		*23 - 129*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
Phenol-d5 (Surr)	*101*		*24 - 113*	*01/27/22 07:17*	*01/27/22 21:19*	*1*
p-Terphenyl-d14 (Surr)	*131*		*18 - 137*	*01/27/22 07:17*	*01/27/22 21:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1
Diesel Range Organics (Over C10-C28)	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1
OII Range Organics (Over C28-C36)	21.1	U	49.9	21.1	mg/Kg		02/01/22 12:48	02/02/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:00*	*1*
o-Terphenyl (Surr)	*99*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:00*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/26/22 08:34	01/28/22 16:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/26/22 08:34	01/28/22 16:59	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*01/26/22 08:34*	*01/28/22 16:59*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*25 - 143*	*01/26/22 08:34*	*01/28/22 16:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:18	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:18*	*1*

Method: 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		02/05/22 11:25	02/10/22 12:37	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.195	0.0420	mg/Kg		02/05/22 11:25	02/10/22 12:37	1
2,4,6-Trinitrotoluene	0.0300	U	0.0976	0.0300	mg/Kg		02/05/22 11:25	02/10/22 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 12:37*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		10.1	3.56	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrate as N	**12.4**		1.01	0.109	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Fluoride	**4.64**	**J**	5.03	1.01	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrite as N	**0.0846**	**J b**	1.01	0.0503	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Nitrate Nitrite as N	**12.4**	**b**	1.01	0.00503	mg/Kg		01/26/22 15:18	01/27/22 13:01	1
Sulfate	**174**		10.1	4.35	mg/Kg		01/26/22 15:18	01/27/22 13:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0774	U	0.470	0.0774	ug/Kg		02/03/22 17:49	02/08/22 19:34	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.216	U H	0.750	0.216	ug/Kg		02/10/22 11:04	02/16/22 13:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.263	U H	0.750	0.263	ug/Kg		02/10/22 11:04	02/16/22 13:15	1
Perfluorooctanesulfonic acid (PFOS)	0.131	U H	0.750	0.131	ug/Kg		02/10/22 11:04	02/16/22 13:15	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 Lab Sample ID: 860-19761-1

Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	02/10/22 11:04	02/16/22 13:15	1
13C8 PFOS	109		70 - 130	02/10/22 11:04	02/16/22 13:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Arsenic	**3.90**		3.51	0.541	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Barium	**287**		3.51	0.304	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Chromium	**1.72**	**J**	3.51	0.238	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Copper	**1.13**	**J**	3.51	0.229	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Iron	**1350**		17.5	2.06	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Manganese	**13.1**		1.75	0.223	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Lead	**0.829**	**J**	1.75	0.170	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Antimony	**0.118**	**J**	1.75	0.104	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Uranium	**0.524**	**J**	0.877	0.0524	mg/Kg		02/02/22 12:57	02/04/22 13:49	10
Zinc	**6.92**		3.51	0.388	mg/Kg		02/02/22 12:57	02/04/22 13:49	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00755**	**J**	0.0196	0.00377	mg/Kg		01/28/22 08:00	01/28/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.1	U	60.7	30.1	ug/Kg		02/08/22 15:02	02/08/22 16:33	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:38	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**169**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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**		0.166	0.209	1.00	0.0783	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Radium-228	0.0894	U	0.196	0.196		0.246	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Combined Radium 226 + 228	**1.30**		0.257	0.287		0.246	pCi/g	02/07/22 10:12	02/28/22 11:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.713	U	4.88	0.713	ug/Kg			01/27/22 23:11	1
Chloromethane	1.17	U	4.88	1.17	ug/Kg			01/27/22 23:11	1
Vinyl chloride	0.586	U	4.88	0.586	ug/Kg			01/27/22 23:11	1
Bromomethane	1.07	U	4.88	1.07	ug/Kg			01/27/22 23:11	1
Trichlorofluoromethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Acrolein	8.40	U	48.8	8.40	ug/Kg			01/27/22 23:11	1
1,1-Dichloroethene	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
trans-1,2-Dichloroethene	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Methyl tert-butyl ether	0.596	U	4.88	0.596	ug/Kg			01/27/22 23:11	1
1,3-Dichlorobenzene	0.303	U	4.88	0.303	ug/Kg			01/27/22 23:11	1
Methylene Chloride	4.88	U	24.4	4.88	ug/Kg			01/27/22 23:11	1
Acrylonitrile	3.52	U	48.8	3.52	ug/Kg			01/27/22 23:11	1
cis-1,2-Dichloroethene	0.557	U	4.88	0.557	ug/Kg			01/27/22 23:11	1
Carbon tetrachloride	0.498	U	4.88	0.498	ug/Kg			01/27/22 23:11	1
Benzene	0.615	U	4.88	0.615	ug/Kg			01/27/22 23:11	1
1,2-Dichloroethane	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
Trichloroethene	0.273	U	4.88	0.273	ug/Kg			01/27/22 23:11	1
1,1,1-Trichloroethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
1,1-Dichloroethane	0.576	U	4.88	0.576	ug/Kg			01/27/22 23:11	1
1,2-Dichloropropane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
1,4-Dioxane	18.6	U	97.7	18.6	ug/Kg			01/27/22 23:11	1
Chloroform	0.850	U	4.88	0.850	ug/Kg			01/27/22 23:11	1
Bromodichloromethane	0.195	U	4.88	0.195	ug/Kg			01/27/22 23:11	1
1,1-Dichloropropene	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
cis-1,3-Dichloropropene	0.439	U	4.88	0.439	ug/Kg			01/27/22 23:11	1
Toluene	0.879	U	4.88	0.879	ug/Kg			01/27/22 23:11	1
trans-1,3-Dichloropropene	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
1,1,2-Trichloroethane	0.488	U	4.88	0.488	ug/Kg			01/27/22 23:11	1
Tetrachloroethene	0.723	U *	4.88	0.723	ug/Kg			01/27/22 23:11	1
1,3-Dichloropropene, Total	0.508	U	4.88	0.508	ug/Kg			01/27/22 23:11	1
1,2-Dibromoethane	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Monochlorobenzene	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Ethylbenzene	0.439	U	4.88	0.439	ug/Kg			01/27/22 23:11	1
Xylenes, Total	0.488	U	9.77	0.488	ug/Kg			01/27/22 23:11	1
Styrene	0.293	U	4.88	0.293	ug/Kg			01/27/22 23:11	1
Tribromomethane	0.498	U	4.88	0.498	ug/Kg			01/27/22 23:11	1
1,1,2,2-Tetrachloroethane	0.371	U	4.88	0.371	ug/Kg			01/27/22 23:11	1
1,4-Dichlorobenzene	0.313	U	4.88	0.313	ug/Kg			01/27/22 23:11	1
1,2-Dichlorobenzene	0.244	U	4.88	0.244	ug/Kg			01/27/22 23:11	1
1,2,4-Trichlorobenzene	0.947	U	4.88	0.947	ug/Kg			01/27/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*		*01/27/22 23:11*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/27/22 23:11*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/27/22 23:11*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/27/22 23:11*	*1*

Method: 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		02/01/22 11:08	02/03/22 01:53	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:53*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/04/22 15:17	02/08/22 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*77*		*30 - 164*	*02/04/22 15:17*	*02/08/22 21:06*	*1*

Method: 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		01/27/22 07:17	01/27/22 18:18	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
bis (2-chloroisopropyl) ether	17.8	U	166	17.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2,6-Dinitrotoluene	23.3	U	166	23.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Acenaphthene	15.5	U	166	15.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzo[a]pyrene	17.2	U	166	17.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Di (2-ethylhexyl)phthalate	166	U	333	166	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Bis(2-chloroethyl)ether	15.2	U	166	15.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dibenz(a,h)anthracene	12.7	U	166	12.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Diethyl phthalate	15.3	U	166	15.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Dimethyl phthalate	15.9	U	166	15.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Fluoranthene	14.7	U	166	14.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorobenzene	16.2	U	166	16.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachlorocyclopentadiene	15.2	U	166	15.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Hexachloroethane	17.3	U	166	17.3	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodiethylamine	21.9	U	166	21.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodiphenylamine	18.6	U	166	18.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosopyrrolidine	14.1	U	166	14.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	166	15.9	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Pyrene	14.6	U	166	14.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
2-Methylnaphthalene	45.1	U	166	45.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Nitrobenzene	18.5	U	166	18.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		01/27/22 07:17	01/27/22 18:18	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 18:18	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	333	332	ug/Kg		01/27/22 07:17	01/27/22 18:18	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*	*01/27/22 07:17*	*01/27/22 18:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*107*		*30 - 115*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
2-Fluorophenol	*100*		*25 - 121*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
2,4,6-Tribromophenol	*108*		*19 - 122*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
Nitrobenzene-d5	*99*		*23 - 129*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
Phenol-d5 (Surr)	*100*		*24 - 113*	*01/27/22 07:17*	*01/27/22 18:18*	*1*
p-Terphenyl-d14 (Surr)	*119*		*18 - 137*	*01/27/22 07:17*	*01/27/22 18:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/01/22 12:48	02/02/22 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:19*	*1*
o-Terphenyl (Surr)	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 20:19*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.831	0.253	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Aldrin	0.362	U	0.831	0.362	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, alpha-	0.678	U	0.831	0.678	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, beta-	0.473	U	0.831	0.473	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Chlordane (technical)	23.8	U	41.6	23.8	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, delta-	0.831	U	0.831	0.831	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Dieldrin	0.169	U	0.831	0.169	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan I	0.201	U	0.831	0.201	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan II	0.371	U	0.831	0.371	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endosulfan sulfate	0.275	U	0.831	0.275	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endrin	0.290	U	0.831	0.290	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Endrin aldehyde	0.247	U	0.831	0.247	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Hexachlorocyclohexane, gamma-	0.438	U	0.831	0.438	ug/Kg		01/26/22 08:34	01/28/22 17:12	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 **Lab Sample ID: 860-19761-2**
Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.831	0.561	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Heptachlor epoxide	0.244	U	0.831	0.244	ug/Kg		01/26/22 08:34	01/28/22 17:12	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/26/22 08:34	01/28/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/26/22 08:34*	*01/28/22 17:12*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*25 - 143*	*01/26/22 08:34*	*01/28/22 17:12*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:27	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/26/22 08:34	01/27/22 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*35 - 140*	*01/26/22 08:34*	*01/27/22 21:27*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*37 - 142*	*01/26/22 08:34*	*01/27/22 21:27*	*1*

Method: 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	0.0227	U	0.0999	0.0227	mg/Kg		02/05/22 11:25	02/10/22 13:00	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 13:00	1
2,4,6-Trinitrotoluene	0.0307	U	0.0999	0.0307	mg/Kg		02/05/22 11:25	02/10/22 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.9**		9.84	3.48	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrate as N	**5.90**		0.984	0.106	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Fluoride	**6.30**		4.92	0.984	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrite as N	**0.116**	**J b**	0.984	0.0492	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Nitrate Nitrite as N	**6.01**	**b**	0.984	0.00492	mg/Kg		01/26/22 15:18	01/27/22 13:12	1
Sulfate	**126**		9.84	4.25	mg/Kg		01/26/22 15:18	01/27/22 13:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.321**	**J**	0.457	0.0754	ug/Kg		02/03/22 17:49	02/08/22 19:39	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.220	U H	0.765	0.220	ug/Kg		02/10/22 11:04	02/16/22 13:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.268	U H	0.765	0.268	ug/Kg		02/10/22 11:04	02/16/22 13:24	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U H	0.765	0.134	ug/Kg		02/10/22 11:04	02/16/22 13:24	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/10/22 11:04	02/16/22 13:24	1
13C8 PFOS	110		70 - 130	02/10/22 11:04	02/16/22 13:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.153	U	1.92	0.153	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Arsenic	**3.43**	**J**	3.85	0.593	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Barium	**331**		3.85	0.334	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Beryllium	**0.190**	**J**	1.92	0.178	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Cadmium	0.112	U	1.92	0.112	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Chromium	**4.11**		3.85	0.261	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Copper	**1.55**	**J**	3.85	0.251	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Iron	**3490**		19.2	2.25	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Manganese	**25.6**		1.92	0.245	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Lead	**1.90**	**J**	1.92	0.186	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Antimony	**0.188**	**J**	1.92	0.114	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Selenium	0.477	U	1.92	0.477	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Thallium	0.230	U	1.92	0.230	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Uranium	**0.538**	**J**	0.962	0.0575	mg/Kg		02/02/22 12:57	02/04/22 13:52	10
Zinc	**10.2**		3.85	0.426	mg/Kg		02/02/22 12:57	02/04/22 13:52	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0125**	**J**	0.0189	0.00363	mg/Kg		01/28/22 08:00	01/28/22 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**37.0**	**J**	61.5	30.5	ug/Kg		02/08/22 15:02	02/08/22 16:34	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:46	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/08/22 15:18	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**178**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.51**		0.257	0.314	1.00	0.154	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Radium-228	0.211	U	0.325	0.326		0.450	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Combined Radium 226 + 228	**1.72**		0.414	0.453		0.450	pCi/g	02/07/22 10:12	02/28/22 11:01	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19761-1	Cell19-Square 193-S-3-4-220125	93	94	93	112
860-19761-2	Cell19-Square 6-S-3-4-220125	97	94	95	109
LCS 560-192640/3	Lab Control Sample	94	94	96	116
LCSD 560-192640/4	Lab Control Sample Dup	94	95	96	117
MB 560-192640/7	Method Blank	92	95	93	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19761-1	Cell19-Square 193-S-3-4-220125	91
860-19761-2	Cell19-Square 6-S-3-4-220125	106
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19761-1	Cell19-Square 193-S-3-4-220125	85 *
860-19761-2	Cell19-Square 6-S-3-4-220125	77
LCS 400-565562/2-A	Lab Control Sample	95 *
MB 400-565562/1-A	Method Blank	80

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19761-1	Cell19-Square 193-S-3-4-220125	113	102	116	109	101	131
860-19761-2	Cell19-Square 6-S-3-4-220125	107	100	108	99	100	119

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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)
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	93	92	101	89	94	97
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	100	95	116	92	101	108
LCS 860-39056/2-A	Lab Control Sample	98	94	110	96	97	107
LCSD 860-39056/3-A	Lab Control Sample Dup	105	101	116	97	104	108
MB 860-39056/1-A	Method Blank	122 X	116	121	118	114 X	130

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	109	99
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	115	105
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19761-1	Cell19-Square 193-S-3-4-220125	68	72
860-19761-2	Cell19-Square 6-S-3-4-220125	71	78
LCS 860-38890/2-A	Lab Control Sample	88	107
LCSD 860-38890/3-A	Lab Control Sample Dup	86	107
MB 860-38890/1-A	Method Blank	95	115

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)
860-19761-1	Cell19-Square 193-S-3-4-220125	59	115

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-140)	(37-142)								
860-19761-2	Cell19-Square 6-S-3-4-220125	59	118								
LCS 860-38890/4-A	Lab Control Sample	72	86								
LCSD 860-38890/5-A	Lab Control Sample Dup	67	87								
MB 860-38890/1-A	Method Blank	80	91								

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)									
		12DNB1									
Lab Sample ID	Client Sample ID	(83-122)									
860-19761-1	Cell19-Square 193-S-3-4-220125	106									
860-19761-2	Cell19-Square 6-S-3-4-220125	108									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
		C8PFOA	C8PFOS								
Lab Sample ID	Client Sample ID	(57-153)	(70-130)								
860-19761-1	Cell19-Square 193-S-3-4-220125	101	109								
860-19761-2	Cell19-Square 6-S-3-4-220125	104	110								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19761-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192640/7
Matrix: Solid
Analysis Batch: 192640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/27/22 17:15	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/27/22 17:15	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/27/22 17:15	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/27/22 17:15	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/27/22 17:15	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/27/22 17:15	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/27/22 17:15	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/27/22 17:15	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/27/22 17:15	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/27/22 17:15	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/27/22 17:15	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/27/22 17:15	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/27/22 17:15	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/27/22 17:15	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/27/22 17:15	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/27/22 17:15	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/27/22 17:15	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/27/22 17:15	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/27/22 17:15	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/27/22 17:15	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/27/22 17:15	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/27/22 17:15	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/27/22 17:15	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/27/22 17:15	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/27/22 17:15	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/27/22 17:15	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/27/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 152*		*01/27/22 17:15*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/27/22 17:15*	*1*
Dibromofluoromethane (Surr)	*93*		*50 - 136*		*01/27/22 17:15*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*01/27/22 17:15*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192640/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	35.80		ug/Kg		89	13 - 130
Chloromethane	40.0	29.10		ug/Kg		73	61 - 137
Vinyl chloride	40.0	34.22		ug/Kg		86	65 - 139
Bromomethane	40.0	32.15		ug/Kg		80	57 - 155
Trichlorofluoromethane	40.0	32.83		ug/Kg		82	68 - 146
Acrolein	395	383.2		ug/Kg		97	20 - 150
1,1-Dichloroethene	40.0	35.68		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	40.0	35.03		ug/Kg		88	70 - 132
Methyl tert-butyl ether	40.0	37.20		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	40.0	35.27		ug/Kg		88	70 - 130
Methylene Chloride	40.0	33.56		ug/Kg		84	61 - 150
Acrylonitrile	400	374.6		ug/Kg		94	66 - 137
cis-1,2-Dichloroethene	40.0	36.33		ug/Kg		91	70 - 130
Carbon tetrachloride	40.0	31.85		ug/Kg		80	70 - 136
Benzene	40.0	35.70		ug/Kg		89	70 - 131
1,2-Dichloroethane	40.0	31.23		ug/Kg		78	70 - 130
Trichloroethene	40.0	34.26		ug/Kg		86	70 - 130
1,1,1-Trichloroethane	40.0	31.86		ug/Kg		80	70 - 132
1,1-Dichloroethane	40.0	34.37		ug/Kg		86	70 - 130
1,2-Dichloropropane	40.0	36.83		ug/Kg		92	70 - 130
1,4-Dioxane	800	833.9		ug/Kg		104	10 - 150
Chloroform	40.0	32.99		ug/Kg		82	70 - 130
Bromodichloromethane	40.0	34.83		ug/Kg		87	70 - 130
1,1-Dichloropropene	40.0	37.02		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	32.77		ug/Kg		82	70 - 130
Toluene	40.0	32.19		ug/Kg		80	70 - 130
trans-1,3-Dichloropropene	40.0	35.13		ug/Kg		88	70 - 131
1,1,2-Trichloroethane	40.0	33.40		ug/Kg		84	70 - 130
Tetrachloroethene	40.0	27.27	*	ug/Kg		68	70 - 130
1,3-Dichloropropene, Total	80.0	67.90		ug/Kg		85	
1,2-Dibromoethane	40.0	32.91		ug/Kg		82	70 - 130
Monochlorobenzene	40.0	31.49		ug/Kg		79	70 - 130
Ethylbenzene	40.0	35.33		ug/Kg		88	70 - 130
Xylenes, Total	80.0	73.91		ug/Kg		92	70 - 130
Styrene	40.0	36.75		ug/Kg		92	70 - 130
Tribromomethane	40.0	29.36		ug/Kg		73	59 - 137
1,1,2,2-Tetrachloroethane	40.0	38.53		ug/Kg		96	70 - 130
1,4-Dichlorobenzene	40.0	33.92		ug/Kg		85	70 - 130
1,2-Dichlorobenzene	40.0	34.72		ug/Kg		87	70 - 130
1,2,4-Trichlorobenzene	40.0	36.85		ug/Kg		92	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*94*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

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

Lab Sample ID: LCSD 560-192640/4
Matrix: Solid
Analysis Batch: 192640

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
Dichlorodifluoromethane			40.0	40.95		ug/Kg		102	13 - 130	13	30.0
Chloromethane			40.0	32.52		ug/Kg		81	61 - 137	11	30.0
Vinyl chloride			40.0	37.63		ug/Kg		94	65 - 139	9	30.0
Bromomethane			40.0	36.48		ug/Kg		91	57 - 155	13	30.0
Trichlorofluoromethane			40.0	37.52		ug/Kg		94	68 - 146	13	30.0
Acrolein			395	450.0		ug/Kg		114	20 - 150	16	30.0
1,1-Dichloroethene			40.0	40.79		ug/Kg		102	70 - 130	13	30.0
trans-1,2-Dichloroethene			40.0	40.86		ug/Kg		102	70 - 132	15	30.0
Methyl tert-butyl ether			40.0	44.27		ug/Kg		111	70 - 130	17	30.0
1,3-Dichlorobenzene			40.0	39.74		ug/Kg		99	70 - 130	12	30.0
Methylene Chloride			40.0	38.56		ug/Kg		96	61 - 150	14	30.0
Acrylonitrile			400	428.6		ug/Kg		107	66 - 137	13	30.0
cis-1,2-Dichloroethene			40.0	42.79		ug/Kg		107	70 - 130	16	30.0
Carbon tetrachloride			40.0	38.15		ug/Kg		95	70 - 136	18	30.0
Benzene			40.0	41.87		ug/Kg		105	70 - 131	16	30.0
1,2-Dichloroethane			40.0	36.23		ug/Kg		91	70 - 130	15	30.0
Trichloroethene			40.0	39.85		ug/Kg		100	70 - 130	15	30.0
1,1,1-Trichloroethane			40.0	38.48		ug/Kg		96	70 - 132	19	30.0
1,1-Dichloroethane			40.0	40.81		ug/Kg		102	70 - 130	17	30.0
1,2-Dichloropropane			40.0	41.90		ug/Kg		105	70 - 130	13	30.0
1,4-Dioxane			800	907.5		ug/Kg		113	10 - 150	8	30.0
Chloroform			40.0	38.61		ug/Kg		97	70 - 130	16	30.0
Bromodichloromethane			40.0	41.06		ug/Kg		103	70 - 130	16	30.0
1,1-Dichloropropene			40.0	43.32		ug/Kg		108	70 - 130	16	30.0
cis-1,3-Dichloropropene			40.0	38.69		ug/Kg		97	70 - 130	17	30.0
Toluene			40.0	37.88		ug/Kg		95	70 - 130	16	30.0
trans-1,3-Dichloropropene			40.0	40.99		ug/Kg		102	70 - 131	15	30.0
1,1,2-Trichloroethane			40.0	38.17		ug/Kg		95	70 - 130	13	30.0
Tetrachloroethene			40.0	33.02		ug/Kg		83	70 - 130	19	30.0
1,3-Dichloropropene, Total			80.0	79.68		ug/Kg		100		16	30
1,2-Dibromoethane			40.0	37.63		ug/Kg		94	70 - 130	13	30.0
Monochlorobenzene			40.0	36.20		ug/Kg		90	70 - 130	14	30.0
Ethylbenzene			40.0	40.69		ug/Kg		102	70 - 130	14	30.0
Xylenes, Total			80.0	85.81		ug/Kg		107	70 - 130	15	30.0
Styrene			40.0	41.41		ug/Kg		104	70 - 130	12	30.0
Tribromomethane			40.0	33.15		ug/Kg		83	59 - 137	12	30.0
1,1,2,2-Tetrachloroethane			40.0	44.69		ug/Kg		112	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	38.17		ug/Kg		95	70 - 130	12	30.0
1,2-Dichlorobenzene			40.0	40.46		ug/Kg		101	70 - 130	15	30.0
1,2,4-Trichlorobenzene			40.0	42.88		ug/Kg		107	68 - 140	15	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*96*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16
Matrix: Solid
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11
Matrix: Solid
Analysis Batch: 39864

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	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12
Matrix: Solid
Analysis Batch: 39864

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	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Lab Sample ID: MB 860-40051/16
Matrix: Solid
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11
Matrix: Solid
Analysis Batch: 40051

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	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40051/12 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-565562/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/04/22 15:17	02/08/22 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*02/04/22 15:17*	*02/08/22 14:41*	*1*

Lab Sample ID: LCS 400-565562/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565810 **Prep Batch: 565562**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	272.6		ug/Kg		82	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*95*	*	*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39056/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

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		01/27/22 07:17	01/27/22 17:18	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39056/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/27/22 07:17	01/27/22 17:18	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/27/22 07:17	01/27/22 17:18	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/27/22 07:17	01/27/22 17:18	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*	*01/27/22 07:17*	*01/27/22 17:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*122*	*X*	*30 - 115*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
2-Fluorophenol	*116*		*25 - 121*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
2,4,6-Tribromophenol	*121*		*19 - 122*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
Nitrobenzene-d5	*118*		*23 - 129*	*01/27/22 07:17*	*01/27/22 17:18*	*1*
Phenol-d5 (Surr)	*114*	*X*	*24 - 113*	*01/27/22 07:17*	*01/27/22 17:18*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39056/1-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39056

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	130		18 - 137	01/27/22 07:17	01/27/22 17:18	1

Lab Sample ID: LCS 860-39056/2-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1153		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1005		ug/Kg		75	35 - 135
1-Methylnaphthalene	1330	995.9		ug/Kg		75	38 - 127
bis (2-chloroisopropyl) ether	1330	820.5		ug/Kg		62	25 - 124
2,4,5-Trichlorophenol	1330	1092		ug/Kg		82	40 - 135
2,4,6-Trichlorophenol	1330	1074		ug/Kg		81	39 - 139
2,4-Dinitrotoluene	1330	1098		ug/Kg		82	48 - 131
Dinitrophenols	1330	870.1		ug/Kg		65	19 - 131
2,4-Dichlorophenol	1330	1073		ug/Kg		80	36 - 135
2,6-Dinitrotoluene	1330	1053		ug/Kg		79	42 - 136
Dichlorobenzidine, 3,3'-	1330	803.4		ug/Kg		60	35 - 134
4,6-Dinitro-2-methylphenol	1330	1055		ug/Kg		79	30 - 146
Acenaphthene	1330	1019		ug/Kg		76	37 - 131
Anthracene	1330	1099		ug/Kg		82	39 - 139
Acenaphthylene	1330	1049		ug/Kg		79	39 - 129
Benzo[a]anthracene	1330	1036		ug/Kg		78	44 - 135
Benzo[b]fluoranthene	1330	1068		ug/Kg		80	40 - 153
Benzo[k]fluoranthene	1330	1147		ug/Kg		86	33 - 156
Benzo[g,h,i]perylene	1330	987.0		ug/Kg		74	40 - 153
Benzo[a]pyrene	1330	1089		ug/Kg		82	43 - 153
Di (2-ethylhexyl)phthalate	1330	1147		ug/Kg		86	46 - 145
Bis(2-chloroethyl)ether	1330	885.3		ug/Kg		66	33 - 127
Chrysene	1330	993.1		ug/Kg		74	42 - 135
Dibutylphthalate	1330	1107		ug/Kg		83	43 - 142
Dibenz(a,h)anthracene	1330	1024		ug/Kg		77	41 - 155
Diethyl phthalate	1330	1000		ug/Kg		75	45 - 131
Dimethyl phthalate	1330	1044		ug/Kg		78	43 - 132
Fluoranthene	1330	1067		ug/Kg		80	41 - 138
Fluorene	1330	1028		ug/Kg		77	41 - 131
Hexachlorobenzene	1330	1061		ug/Kg		80	36 - 142
Hexachlorobutadiene	1330	976.2		ug/Kg		73	35 - 129
Hexachlorocyclopentadiene	1330	884.0		ug/Kg		66	16 - 106
Hexachloroethane	1330	895.2		ug/Kg		67	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1013		ug/Kg		76	39 - 154
Isophorone	1330	1016		ug/Kg		76	36 - 128
N-Nitrosodi-n-butylamine	1330	1017		ug/Kg		76	34 - 135
N-Nitrosodiethylamine	1330	1017		ug/Kg		76	36 - 127
N-Nitrosodiphenylamine	1330	1094		ug/Kg		82	27 - 155
N-Nitrosopyrrolidine	1330	978.2		ug/Kg		73	38 - 136
Pentachlorobenzene	1330	984.6		ug/Kg		74	38 - 136
Pentachlorophenol	1330	952.3		ug/Kg		71	14 - 148

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39056/2-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39056

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenanthrene			1330	1058		ug/Kg		79	37 - 139		
Pyrene			1330	1129		ug/Kg		85	42 - 138		
Naphthalene			1330	982.5		ug/Kg		74	35 - 128		
2-Methylnaphthalene			1330	1020		ug/Kg		76	36 - 126		
Nitrobenzene			1330	1040		ug/Kg		78	32 - 129		
Benzidine			1330	387.8		ug/Kg		29	12 - 112		
Phenol			1.33	0.9754		mg/Kg		73	34 - 127		
N-Nitrosodimethylamine			1330	963.1		ug/Kg		72	27 - 126		
Atrazine			1330	1185		ug/Kg		89	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	991.3		ug/Kg		74	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*30 - 115*
2-Fluorophenol	*94*		*25 - 121*
2,4,6-Tribromophenol	*110*		*19 - 122*
Nitrobenzene-d5	*96*		*23 - 129*
Phenol-d5 (Surr)	*97*		*24 - 113*
p-Terphenyl-d14 (Surr)	*107*		*18 - 137*

Lab Sample ID: LCSD 860-39056/3-A
Matrix: Solid
Analysis Batch: 39132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39056

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1158		ug/Kg		87	20 - 157	0	30
1,2,4,5-Tetrachlorobenzene			1330	1097		ug/Kg		82	35 - 135	9	30
1-Methylnaphthalene			1330	1068		ug/Kg		80	38 - 127	7	30
bis (2-chloroisopropyl) ether			1330	855.5		ug/Kg		64	25 - 124	4	30
2,4,5-Trichlorophenol			1330	1220		ug/Kg		91	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1198		ug/Kg		90	39 - 139	11	30
2,4-Dinitrotoluene			1330	1263		ug/Kg		95	48 - 131	14	30
Dinitrophenols			1330	1040		ug/Kg		78	19 - 131	18	40
2,4-Dichlorophenol			1330	1162		ug/Kg		87	36 - 135	8	30
2,6-Dinitrotoluene			1330	1196		ug/Kg		90	42 - 136	13	30
Dichlorobenzidine, 3,3'-			1330	890.3		ug/Kg		67	35 - 134	10	40
4,6-Dinitro-2-methylphenol			1330	1173		ug/Kg		88	30 - 146	11	40
Acenaphthene			1330	1092		ug/Kg		82	37 - 131	7	30
Anthracene			1330	1171		ug/Kg		88	39 - 139	6	30
Acenaphthylene			1330	1162		ug/Kg		87	39 - 129	10	30
Benzo[a]anthracene			1330	1132		ug/Kg		85	44 - 135	9	30
Benzo[b]fluoranthene			1330	1163		ug/Kg		87	40 - 153	9	30
Benzo[k]fluoranthene			1330	1186		ug/Kg		89	33 - 156	3	30
Benzo[g,h,i]perylene			1330	1119		ug/Kg		84	40 - 153	13	30
Benzo[a]pyrene			1330	1147		ug/Kg		86	43 - 153	5	30
Di (2-ethylhexyl)phthalate			1330	1234		ug/Kg		93	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	941.8		ug/Kg		71	33 - 127	6	30
Chrysene			1330	1063		ug/Kg		80	42 - 135	7	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39056/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibutylphthalate			1330	1192		ug/Kg		89	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1172		ug/Kg		88	41 - 155	13	30
Diethyl phthalate			1330	1121		ug/Kg		84	45 - 131	11	30
Dimethyl phthalate			1330	1151		ug/Kg		86	43 - 132	10	30
Fluoranthene			1330	1171		ug/Kg		88	41 - 138	9	30
Fluorene			1330	1183		ug/Kg		89	41 - 131	14	30
Hexachlorobenzene			1330	1112		ug/Kg		83	36 - 142	5	30
Hexachlorobutadiene			1330	1038		ug/Kg		78	35 - 129	6	30
Hexachlorocyclopentadiene			1330	1004		ug/Kg		75	16 - 106	13	30
Hexachloroethane			1330	952.0		ug/Kg		71	36 - 121	6	30
Indeno[1,2,3-cd]pyrene			1330	1169		ug/Kg		88	39 - 154	14	30
Isophorone			1330	1050		ug/Kg		79	36 - 128	3	30
N-Nitrosodi-n-butylamine			1330	1143		ug/Kg		86	34 - 135	12	30
N-Nitrosodiethylamine			1330	1098		ug/Kg		82	36 - 127	8	30
N-Nitrosodiphenylamine			1330	1134		ug/Kg		85	27 - 155	4	30
N-Nitrosopyrrolidine			1330	1101		ug/Kg		83	38 - 136	12	30
Pentachlorobenzene			1330	1125		ug/Kg		84	38 - 136	13	30
Pentachlorophenol			1330	1089		ug/Kg		82	14 - 148	13	40
Phenanthrene			1330	1146		ug/Kg		86	37 - 139	8	30
Pyrene			1330	1120		ug/Kg		84	42 - 138	1	30
Naphthalene			1330	1027		ug/Kg		77	35 - 128	4	30
2-Methylnaphthalene			1330	1057		ug/Kg		79	36 - 126	4	30
Nitrobenzene			1330	1077		ug/Kg		81	32 - 129	3	30
Benzidine			1330	426.7		ug/Kg		32	12 - 112	10	40
Phenol			1.33	1.054		mg/Kg		79	34 - 127	8	40
N-Nitrosodimethylamine			1330	992.7		ug/Kg		74	27 - 126	3	30
Atrazine			1330	1217		ug/Kg		91	18 - 134	3	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1047		ug/Kg		79	30 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*30 - 115*
2-Fluorophenol	*101*		*25 - 121*
2,4,6-Tribromophenol	*116*		*19 - 122*
Nitrobenzene-d5	*97*		*23 - 129*
Phenol-d5 (Surr)	*104*		*24 - 113*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

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	1043		ug/Kg		78	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	971.8		ug/Kg		73	35 - 135
1-Methylnaphthalene	26.6	U	1330	973.3		ug/Kg		73	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	810.4		ug/Kg		61	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1050		ug/Kg		79	40 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,6-Trichlorophenol	15.7	U	1330	1047		ug/Kg		79	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1075		ug/Kg		81	48 - 131
Dinitrophenols	24.2	U	1330	743.4		ug/Kg		56	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1016		ug/Kg		76	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	1044		ug/Kg		79	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	822.9		ug/Kg		62	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	987.8		ug/Kg		74	30 - 146
Acenaphthene	15.5	U	1330	986.4		ug/Kg		74	37 - 131
Anthracene	13.8	U	1330	1027		ug/Kg		77	39 - 139
Acenaphthylene	14.7	U	1330	994.6		ug/Kg		75	39 - 129
Benzo[a]anthracene	14.0	U	1330	1012		ug/Kg		76	44 - 135
Benzo[b]fluoranthene	12.5	U	1330	992.9		ug/Kg		75	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1072		ug/Kg		81	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1005		ug/Kg		76	40 - 153
Benzo[a]pyrene	17.2	U	1330	1016		ug/Kg		76	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1330	1094		ug/Kg		82	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	864.0		ug/Kg		65	33 - 127
Chrysene	16.5	U	1330	975.3		ug/Kg		73	42 - 135
Dibutylphthalate	16.0	U	1330	1047		ug/Kg		79	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1021		ug/Kg		77	41 - 155
Diethyl phthalate	15.3	U	1330	993.2		ug/Kg		75	45 - 131
Dimethyl phthalate	15.9	U	1330	999.4		ug/Kg		75	43 - 132
Fluoranthene	14.7	U	1330	1060		ug/Kg		80	41 - 138
Fluorene	13.8	U	1330	1029		ug/Kg		77	41 - 131
Hexachlorobenzene	16.2	U	1330	998.9		ug/Kg		75	36 - 142
Hexachlorobutadiene	13.8	U	1330	921.7		ug/Kg		69	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	815.0		ug/Kg		61	16 - 106
Hexachloroethane	17.3	U	1330	861.7		ug/Kg		65	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1024		ug/Kg		77	39 - 154
Isophorone	14.5	U	1330	968.7		ug/Kg		73	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1013		ug/Kg		76	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	999.6		ug/Kg		75	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1019		ug/Kg		77	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	986.7		ug/Kg		74	38 - 136
Pentachlorobenzene	15.9	U	1330	969.1		ug/Kg		73	38 - 136
Pentachlorophenol	12.1	U	1330	918.6		ug/Kg		69	14 - 148
Phenanthrene	16.5	U	1330	1031		ug/Kg		78	37 - 139
Pyrene	14.6	U	1330	1026		ug/Kg		77	42 - 138
Naphthalene	15.6	U	1330	954.5		ug/Kg		72	35 - 128
2-Methylnaphthalene	45.1	U	1330	975.3		ug/Kg		73	36 - 126
Nitrobenzene	18.5	U	1330	976.2		ug/Kg		73	32 - 129
Benzidine	12.1	U	1330	157.5	J	ug/Kg		12	12 - 112
Phenol	0.0149	U	1.33	0.9671		mg/Kg		73	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	919.5		ug/Kg		69	27 - 126
Atrazine	16.5	U	1330	1145		ug/Kg		86	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1330	979.4		ug/Kg		74	

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MS **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	93		30 - 115
2-Fluorophenol	92		25 - 121
2,4,6-Tribromophenol	101		19 - 122
Nitrobenzene-d5	89		23 - 129
Phenol-d5 (Surr)	94		24 - 113
p-Terphenyl-d14 (Surr)	97		18 - 137

Lab Sample ID: 860-19761-2 MSD **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

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	1129		ug/Kg		85	20 - 157	8	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1330	1026		ug/Kg		77	35 - 135	5	30
1-Methylnaphthalene	26.6	U	1330	1021		ug/Kg		77	38 - 127	5	30
bis (2-chloroisopropyl) ether	17.8	U	1330	818.9		ug/Kg		62	25 - 124	1	30
2,4,5-Trichlorophenol	19.0	U	1330	1156		ug/Kg		87	40 - 135	10	30
2,4,6-Trichlorophenol	15.7	U	1330	1133		ug/Kg		85	39 - 139	8	30
2,4-Dinitrotoluene	12.7	U	1330	1165		ug/Kg		87	48 - 131	8	30
Dinitrophenols	24.2	U	1330	893.6		ug/Kg		67	19 - 131	18	40
2,4-Dichlorophenol	17.4	U	1330	1067		ug/Kg		80	36 - 135	5	30
2,6-Dinitrotoluene	23.3	U	1330	1121		ug/Kg		84	42 - 136	7	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	897.1		ug/Kg		67	35 - 134	9	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1100		ug/Kg		83	30 - 146	11	40
Acenaphthene	15.5	U	1330	1058		ug/Kg		79	37 - 131	7	30
Anthracene	13.8	U	1330	1111		ug/Kg		83	39 - 139	8	30
Acenaphthylene	14.7	U	1330	1087		ug/Kg		82	39 - 129	9	30
Benzo[a]anthracene	14.0	U	1330	1101		ug/Kg		83	44 - 135	8	30
Benzo[b]fluoranthene	12.5	U	1330	1078		ug/Kg		81	40 - 153	8	30
Benzo[k]fluoranthene	19.3	U	1330	1147		ug/Kg		86	33 - 156	7	30
Benzo[g,h,i]perylene	15.3	U	1330	1079		ug/Kg		81	40 - 153	7	30
Benzo[a]pyrene	17.2	U	1330	1112		ug/Kg		83	43 - 153	9	30
Di (2-ethylhexyl)phthalate	166	U	1330	1182		ug/Kg		89	46 - 145	8	30
Bis(2-chloroethyl)ether	15.2	U	1330	885.6		ug/Kg		67	33 - 127	2	30
Chrysene	16.5	U	1330	1053		ug/Kg		79	42 - 135	8	30
Dibutylphthalate	16.0	U	1330	1154		ug/Kg		87	43 - 142	10	30
Dibenz(a,h)anthracene	12.7	U	1330	1113		ug/Kg		84	41 - 155	9	30
Diethyl phthalate	15.3	U	1330	1099		ug/Kg		83	45 - 131	10	30
Dimethyl phthalate	15.9	U	1330	1097		ug/Kg		82	43 - 132	9	30
Fluoranthene	14.7	U	1330	1143		ug/Kg		86	41 - 138	8	30
Fluorene	13.8	U	1330	1113		ug/Kg		84	41 - 131	8	30
Hexachlorobenzene	16.2	U	1330	1081		ug/Kg		81	36 - 142	8	30
Hexachlorobutadiene	13.8	U	1330	947.5		ug/Kg		71	35 - 129	3	30
Hexachlorocyclopentadiene	15.2	U	1330	879.8		ug/Kg		66	16 - 106	8	30
Hexachloroethane	17.3	U	1330	870.0		ug/Kg		65	36 - 121	1	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1110		ug/Kg		83	39 - 154	8	30
Isophorone	14.5	U	1330	997.5		ug/Kg		75	36 - 128	3	30
N-Nitrosodi-n-butylamine	25.2	U	1330	1053		ug/Kg		79	34 - 135	4	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19761-2 MSD **Client Sample ID: Cell19-Square 6-S-3-4-220125**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39132 **Prep Batch: 39056**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodiethylamine	21.9	U	1330	1025		ug/Kg		77	36 - 127	2	30
N-Nitrosodiphenylamine	18.6	U	1330	1084		ug/Kg		81	27 - 155	6	30
N-Nitrosopyrrolidine	14.1	U	1330	1011		ug/Kg		76	38 - 136	2	30
Pentachlorobenzene	15.9	U	1330	1047		ug/Kg		79	38 - 136	8	30
Pentachlorophenol	12.1	U	1330	1005		ug/Kg		75	14 - 148	9	40
Phenanthrene	16.5	U	1330	1111		ug/Kg		83	37 - 139	7	30
Pyrene	14.6	U	1330	1105		ug/Kg		83	42 - 138	7	30
Naphthalene	15.6	U	1330	965.6		ug/Kg		73	35 - 128	1	30
2-Methylnaphthalene	45.1	U	1330	1007		ug/Kg		76	36 - 126	3	30
Nitrobenzene	18.5	U	1330	1006		ug/Kg		76	32 - 129	3	30
Benzidine	12.1	U	1330	320.9	J N2	ug/Kg		24	12 - 112	68	40
Phenol	0.0149	U	1.33	1.012		mg/Kg		76	34 - 127	5	40
N-Nitrosodimethylamine	16.7	U	1330	923.8		ug/Kg		69	27 - 126	0	30
Atrazine	16.5	U	1330	1215		ug/Kg		91	18 - 134	6	40
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1330	1020		ug/Kg		77		4	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*30 - 115*
2-Fluorophenol	*95*		*25 - 121*
2,4,6-Tribromophenol	*116*		*19 - 122*
Nitrobenzene-d5	*92*		*23 - 129*
Phenol-d5 (Surr)	*101*		*24 - 113*
p-Terphenyl-d14 (Surr)	*108*		*18 - 137*

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-38890/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38895 **Prep Batch: 38890**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/26/22 08:34	01/26/22 14:18	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/26/22 08:34	01/26/22 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/26/22 08:34*	*01/26/22 14:18*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*25 - 143*	*01/26/22 08:34*	*01/26/22 14:18*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-38890/2-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.14		ug/Kg		115	13 - 192		
Aldrin			16.7	18.43		ug/Kg		111	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	17.42		ug/Kg		105	29 - 160		
Hexachlorocyclohexane, beta-			16.7	19.15		ug/Kg		115	30 - 155		
Hexachlorocyclohexane, delta-			16.7	17.69		ug/Kg		106	20 - 161		
Dieldrin			16.7	19.24		ug/Kg		115	33 - 153		
Endosulfan I			16.7	18.57		ug/Kg		111	30 - 151		
Endosulfan II			16.7	17.20		ug/Kg		103	27 - 153		
Endosulfan sulfate			16.7	18.75		ug/Kg		112	15 - 170		
Endrin			16.7	20.31		ug/Kg		122	25 - 162		
Endrin aldehyde			16.7	18.29		ug/Kg		110	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	18.31		ug/Kg		110	30 - 158		
Heptachlor			16.7	18.86		ug/Kg		113	29 - 163		
Heptachlor epoxide			16.7	18.26		ug/Kg		110	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

Lab Sample ID: LCSD 860-38890/3-A
Matrix: Solid
Analysis Batch: 38895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	18.62		ug/Kg		112	13 - 192	3	25
Aldrin			16.7	18.12		ug/Kg		109	30 - 152	2	25
Hexachlorocyclohexane, alpha-			16.7	17.11		ug/Kg		103	29 - 160	2	25
Hexachlorocyclohexane, beta-			16.7	18.75		ug/Kg		113	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	17.26		ug/Kg		104	20 - 161	2	25
Dieldrin			16.7	18.81		ug/Kg		113	33 - 153	2	25
Endosulfan I			16.7	18.15		ug/Kg		109	30 - 151	2	25
Endosulfan II			16.7	16.84		ug/Kg		101	27 - 153	2	25
Endosulfan sulfate			16.7	18.21		ug/Kg		109	15 - 170	3	25
Endrin			16.7	19.79		ug/Kg		119	25 - 162	3	25
Endrin aldehyde			16.7	17.90		ug/Kg		107	49 - 117	2	25
Hexachlorocyclohexane, gamma-			16.7	17.85		ug/Kg		107	30 - 158	3	25
Heptachlor			16.7	18.53		ug/Kg		111	29 - 163	2	25
Heptachlor epoxide			16.7	17.76		ug/Kg		107	30 - 150	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*107*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-38890/1-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/26/22 08:34	01/26/22 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 140*	*01/26/22 08:34*	*01/26/22 14:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*01/26/22 08:34*	*01/26/22 14:24*	*1*

Lab Sample ID: LCS 860-38890/4-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1416		mg/Kg		85	27 - 121		
Aroclor 1260			0.167	0.1484		mg/Kg		89	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*86*		*37 - 142*

Lab Sample ID: LCSD 860-38890/5-A
Matrix: Solid
Analysis Batch: 38913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1363		mg/Kg		82	27 - 121	4	20
Aroclor 1260			0.167	0.1452		mg/Kg		87	27 - 139	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A
Matrix: Solid
Analysis Batch: 565637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565272

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene	1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39027/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 18:46	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 18:46	1

Lab Sample ID: MB 860-39027/28-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/26/22 23:31	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/26/22 23:31	1

Lab Sample ID: MB 860-39027/57-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 38814 **Prep Batch: 39027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrite as N	0.08762	J	1.00	0.0500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Nitrate Nitrite as N	0.1812	J	1.00	0.00500	mg/Kg		01/26/22 10:18	01/27/22 06:39	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		01/26/22 10:18	01/27/22 06:39	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-39027/58-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	103.2		mg/Kg		103	80 - 120
Nitrate as N	100	96.19		mg/Kg		96	80 - 120
Fluoride	100	100.1		mg/Kg		100	80 - 120
Nitrite as N	50.0	48.60		mg/Kg		97	80 - 120
Sulfate	100	95.71		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-39027/3-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	103.9		mg/Kg		104	80 - 120	0	20
Fluoride	100	101.5		mg/Kg		101	80 - 120	0	20
Sulfate	100	97.19		mg/Kg		97	80 - 120	0	20

Lab Sample ID: LCSD 860-39027/59-A
Matrix: Solid
Analysis Batch: 38814
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.30		mg/Kg		99	80 - 120	4	20
Nitrate as N	100	93.62		mg/Kg		94	80 - 120	3	20
Fluoride	100	97.49		mg/Kg		97	80 - 120	3	20
Nitrite as N	50.0	47.43		mg/Kg		95	80 - 120	2	20
Sulfate	100	93.07		mg/Kg		93	80 - 120	3	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566232 — **Prep Batch: 565681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566232 — **Prep Batch: 565681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-39983/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40322 — **Prep Batch: 39983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-39983/1-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/02/22 12:56	02/04/22 12:37	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/02/22 12:56	02/04/22 12:37	1

Lab Sample ID: LCS 860-39983/2-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.00	4.950		mg/Kg		99	80 - 120
Arsenic	10.0	10.41		mg/Kg		104	80 - 120
Barium	10.0	9.918		mg/Kg		99	80 - 120
Beryllium	10.0	10.08		mg/Kg		101	80 - 120
Cadmium	10.0	10.42		mg/Kg		104	80 - 120
Chromium	10.0	10.57		mg/Kg		106	80 - 120
Copper	10.0	10.37		mg/Kg		104	80 - 120
Iron	50.0	52.35		mg/Kg		105	80 - 120
Manganese	10.0	10.93		mg/Kg		109	80 - 120
Lead	10.0	9.971		mg/Kg		100	80 - 120
Antimony	10.0	9.820		mg/Kg		98	80 - 120
Selenium	10.0	10.46		mg/Kg		105	80 - 120
Thallium	10.0	9.997		mg/Kg		100	80 - 120
Uranium	2.50	2.407		mg/Kg		96	80 - 120
Zinc	10.0	11.99		mg/Kg		120	80 - 120

Lab Sample ID: LCSD 860-39983/3-A
Matrix: Solid
Analysis Batch: 40322

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.888		mg/Kg		100	80 - 120	1	20
Arsenic	9.80	10.36		mg/Kg		106	80 - 120	0	20
Barium	9.80	9.905		mg/Kg		101	80 - 120	0	20
Beryllium	9.80	10.11		mg/Kg		103	80 - 120	0	20
Cadmium	9.80	10.29		mg/Kg		105	80 - 120	1	20
Chromium	9.80	10.30		mg/Kg		105	80 - 120	3	20
Copper	9.80	10.18		mg/Kg		104	80 - 120	2	20
Iron	49.0	51.04		mg/Kg		104	80 - 120	3	20
Manganese	9.80	10.60		mg/Kg		108	80 - 120	3	20
Lead	9.80	9.940		mg/Kg		101	80 - 120	0	20
Antimony	9.80	9.828		mg/Kg		100	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19761-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-39983/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40322 — **Prep Batch: 39983**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium			9.80	10.36		mg/Kg		106	80 - 120	1	20
Thallium			9.80	9.988		mg/Kg		102	80 - 120	0	20
Uranium			2.45	2.417		mg/Kg		99	80 - 120	0	20
Zinc			9.80	11.39		mg/Kg		116	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39207/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00356	U	0.0185	0.00356	mg/Kg		01/28/22 08:00	01/28/22 12:43	1

Lab Sample ID: LCS 860-39207/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.192	0.2007		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 860-39207/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39396 — **Prep Batch: 39207**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.192	0.1950		mg/Kg		101	80 - 120	3	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40711/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 16:20	1

Lab Sample ID: MB 860-40711/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/08/22 15:02	02/08/22 15:59	1

Lab Sample ID: LCS 860-40711/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	101.9		ug/Kg		102	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40711/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40738 — **Prep Batch: 40711**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.87		ug/Kg		106	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19761-1 DU — **Client Sample ID: Cell19-Square 193-S-3-4-220125**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 40717

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.6	HF	8.7		SU		0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552706 — **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	5035	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8260B	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8260B	
MB 560-192640/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192640/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192640/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-39056/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39056/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39056/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	

Analysis Batch: 39132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8270D	39056
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056
MB 860-39056/1-A	Method Blank	Total/NA	Solid	8270D	39056
LCS 860-39056/2-A	Lab Control Sample	Total/NA	Solid	8270D	39056
LCSD 860-39056/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39056
860-19761-2 MS	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056
860-19761-2 MSD	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	39056

Prep Batch: 565562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3546	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 565562 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-565562/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 565810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8270D	565562
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8270D	565562
MB 400-565562/1-A	Method Blank	Total/NA	Solid	8270D	565562
LCS 400-565562/2-A	Lab Control Sample	Total/NA	Solid	8270D	565562

GC Semi VOA

Prep Batch: 38890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3550C	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3550C	
MB 860-38890/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 38895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8081B	38890
LCS 860-38890/2-A	Lab Control Sample	Total/NA	Solid	8081B	38890
LCSD 860-38890/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	38890

Analysis Batch: 38913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-38890/1-A	Method Blank	Total/NA	Solid	8082A	38890
LCS 860-38890/4-A	Lab Control Sample	Total/NA	Solid	8082A	38890
LCSD 860-38890/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	38890

Analysis Batch: 39187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8082A	38890
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8082A	38890

Analysis Batch: 39319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8081B	38890
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8081B	38890

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8015NM Prep	
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1 - RA	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8015B NM	39790
860-19761-2 - RA	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Analysis Batch: 38814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/1-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/28-A	Method Blank	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Analysis Batch: 38815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9056A	39027
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9056A	39027
MB 860-39027/57-A	Method Blank	Total/NA	Solid	9056A	39027
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	9056A	39027
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39027

Prep Batch: 39027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	300_Prep	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	300_Prep	
MB 860-39027/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-39027/57-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39027/58-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39027/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-39027/59-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8330B	564725
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	8330B	565272
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6860	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6860	565161
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	PFC leach	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	7471A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	7471A	
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	7471A	39207
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	7471A	39207
MB 860-39207/10-A	Method Blank	Total/NA	Solid	7471A	39207
LCS 860-39207/11-A	Lab Control Sample	Total/NA	Solid	7471A	39207
LCSD 860-39207/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39207

Prep Batch: 39983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	3051A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	3051A	
MB 860-39983/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	6020A	39983
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	6020A	39983
MB 860-39983/1-A	Method Blank	Total/NA	Solid	6020A	39983
LCS 860-39983/2-A	Lab Control Sample	Total/NA	Solid	6020A	39983
LCSD 860-39983/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	39983

General Chemistry

Analysis Batch: 39359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Moisture - 2540	
MB 860-39359/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19761-2 DU	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Soluble	Solid	DI Leach	
860-19761-2	Cell19-Square 6-S-3-4-220125	Soluble	Solid	DI Leach	
860-19761-1 DU	Cell19-Square 193-S-3-4-220125	Soluble	Solid	DI Leach	

Prep Batch: 40711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9012A	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9012A	
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Soluble	Solid	9045D	40687
860-19761-2	Cell19-Square 6-S-3-4-220125	Soluble	Solid	9045D	40687
860-19761-1 DU	Cell19-Square 193-S-3-4-220125	Soluble	Solid	9045D	40687

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9012A	40711
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9012A	40711
MB 860-40711/16-A	Method Blank	Total/NA	Solid	9012A	40711
MB 860-40711/3-A	Method Blank	Total/NA	Solid	9012A	40711
LCS 860-40711/4-A	Lab Control Sample	Total/NA	Solid	9012A	40711
LLCS 860-40711/18-A	Lab Control Sample	Total/NA	Solid	9012A	40711

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Distill/Phenol	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	9066	42223
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	9066	42223

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	7 Day Leach	Solid	335.521	
860-19761-2	Cell19-Square 6-S-3-4-220125	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
860-19761-2	Cell19-Square 6-S-3-4-220125	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Dry and Grind	
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19761-1	Cell19-Square 193-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
860-19761-2	Cell19-Square 6-S-3-4-220125	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 193-S-3-4-220125 **Lab Sample ID: 860-19761-1**
Date Collected: 01/25/22 12:55 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.95 g	5 mL	192640	01/27/22 22:45	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 20:54	EM	XEN STF
Total/NA	Prep	3550C			30.01 g	1 mL	39056	01/27/22 07:17	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 21:19	T1S	XEN STF
Total/NA	Prep	3546			15.33 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 20:40	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.02 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:00	T1S	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 16:59	WP	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:18	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.25 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 12:37	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 13:01	ANP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 13:01	ANP	XEN STF
Total/NA	Prep	6860			10.64 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:34	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.66 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:15	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:49	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:04	SHZ	XEN STF
Total/NA	Prep	9012A			0.4940 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:33	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:38	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			333.7000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 11:02	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square 6-S-3-4-220125 Lab Sample ID: 860-19761-2

Date Collected: 01/25/22 12:23 **Matrix: Solid**
Date Received: 01/26/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.12 g	5 mL	192640	01/27/22 23:11	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:53	A1S	XEN STF
Total/NA	Prep	3550C			30.05 g	1 mL	39056	01/27/22 07:17	JN	XEN STF
Total/NA	Analysis	8270D		1			39132	01/27/22 18:18	T1S	XEN STF
Total/NA	Prep	3546			15.23 g	1 mL	565562	02/04/22 15:17	NGB	TAL PEN
Total/NA	Analysis	8270D		1			565810	02/08/22 21:06	PP1	TAL PEN
Total/NA	Prep	8015NM Prep	RA		10.04 g	10 mL	39790	02/01/22 12:48	SAR	XEN STF
Total/NA	Analysis	8015B NM	RA	1			39915	02/02/22 20:19	T1S	XEN STF
Total/NA	Prep	3550C			30.07 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8081B		1			39319	01/28/22 17:12	WP	XEN STF
Total/NA	Prep	3550C			30.07 g	5 mL	38890	01/26/22 08:34	TH	XEN STF
Total/NA	Analysis	8082A		1			39187	01/27/22 21:27	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.01 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:00	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38814	01/27/22 13:12	ANP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39027	01/26/22 15:18	ANP	XEN STF
Total/NA	Analysis	9056A		1			38815	01/27/22 13:12	ANP	XEN STF
Total/NA	Prep	6860			10.93 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:39	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.46 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:24	AGCM	TAL DEN
Total/NA	Prep	3051A			.52 g	50 mL	39983	02/02/22 12:57	PB	XEN STF
Total/NA	Analysis	6020A		10			40322	02/04/22 13:52	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39207	01/28/22 08:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			39396	01/28/22 13:05	SHZ	XEN STF
Total/NA	Prep	9012A			0.4882 g	6 mL	40711	02/08/22 15:02	CM1	XEN STF
Total/NA	Analysis	9012A		1			40738	02/08/22 16:34	CM1	XEN STF
Soluble	Leach	DI Leach			20.01 g	20 mL	40687	02/08/22 12:55	TL	XEN STF
Soluble	Analysis	9045D		1	20.01 g	20 mL	40717	02/08/22 15:18	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:46	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39359	01/28/22 10:50	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			301.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 11:01	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19761-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19761-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19761-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19761-1	Cell19-Square 193-S-3-4-220125	Solid	01/25/22 12:55	01/26/22 11:22
860-19761-2	Cell19-Square 6-S-3-4-220125	Solid	01/25/22 12:23	01/26/22 11:22

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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

2/28/2022

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-631-3011	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 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	6850 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 Lasal Method/ Moisture/ pH 8046	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 193-S-3-4-220125	1/25/22	1255	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 19-Square 6-S-3-4-220125	1/25/22	1223	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19761 Chain of Custody

Temp 3.1 IR ID HOU-323
C/F +0.2
Corrected Temp: 3.3

TB

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	Cory Rodriguez	1/25/22 1700	Arcadis			
2	Relinquished by:	Date/Time:	Company	Received by: Linda	Date/Time: 1/26/22 14:22	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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9688.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/14/2022			
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, 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-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 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 out 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 complicance 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
FED EX	1/26/22		FED EX		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				JAN 28 2022 1120	EA STL
Relinquished by	Date/Time	Company	Received by: Autumn R. Johnson	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9687.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/11/2022			
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, 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	X	X	2	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 Central		Solid			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 out 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 complicance 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
				1/27/22 1005	ETAPEN
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: 1.4 IR13(F-0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9686.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/14/2022			
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, 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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 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 out 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 complicance 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	1/26/22				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1-27-22 1427	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0 °C IR8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9685.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19761-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/11/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	8260B/5030B_Solid (MOD) mod	2540C/TX_7Day_T	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square 193-5-3-4-220125 (860-19761-1)	1/25/22	12:55 Central		Solid			X	X	1	
Cell19-Square 6-5-3-4-220125 (860-19761-2)	1/25/22	12:23 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 out 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 complicance 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	1/26/22		Caitlyn Torres	01/27/2022 1130	EX
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: 2.9 Cor IR-10 2.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Corpus Christi**
List Number: 3 **List Creation: 01/27/22 01:39 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19761-1

Login Number: 19761 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/27/22 04:37 PM**
Creator: Rystrom, Joshua R

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.	False	COC not relinquished.
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").	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: 860-19761-1

Login Number: 19761 **List Source: Eurofins Pensacola**
List Number: 4 **List Creation: 01/27/22 04:55 PM**
Creator: Whitley, Adrian

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 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: 860-19761-1

Login Number: 19761 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19931-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer



Authorized for release by:
2/28/2022 6:02:59 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19931-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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
*	RPD of the LCS and LCSD exceeds the control 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.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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.
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 U.S., Inc. Job ID: 860-19931-1
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 U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19931-1

Receipt
The samples were received on 1/28/2022 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

GC/MS VOA
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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (860-19931-E-1-B MS). These results have been reported and qualified.

Method 8270D: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) associated with preparation batch 860-40040 and analytical batch 860-40104 was outside the upper control limits.

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

GC Semi VOA
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
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell20-Square 66-S-3-4-220127 (860-19931-1) and Cell20-Square 40-S-3-4-220127 (860-19931-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell20-Square 66-S-3-4-220127 (860-19931-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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

General Chemistry

Method 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell20-Square 66-S-3-4-220127 (860-19931-1), Cell20-Square 40-S-3-4-220127 (860-19931-2), (LCS 160-549553/2-A) and (MB 160-549553/1-A)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 — Lab Sample ID: 860-19931-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.8		9.88	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	24.7		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	1.96	J	4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.522	J	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	25.2		0.988	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	461		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	2.34	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	138		3.57	0.310	mg/Kg	10		6020A	Total/NA
Beryllium	0.195	J	1.79	0.165	mg/Kg	10		6020A	Total/NA
Chromium	4.80		3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	2.13	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	3370		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	39.9		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	2.09		1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	2.38		1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.322	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	10.2		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00580	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
Cyanide, Total	44.7	J	60.6	30.1	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	347		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square 40-S-3-4-220127 — Lab Sample ID: 860-19931-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.36	J	9.84	3.48	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.4		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	1.72	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.442	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.8		0.984	0.106	mg/Kg	1		9056A	Total/NA
Sulfate	136		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.83	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	242		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	1.81	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.35	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	1370		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	12.9		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	0.865	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Uranium	0.306	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	5.44		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00824	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	159		10.0	10.0	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. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.678	U	4.65	0.678	ug/Kg			01/31/22 18:22	1
Chloromethane	1.12	U	4.65	1.12	ug/Kg			01/31/22 18:22	1
Vinyl chloride	0.558	U	4.65	0.558	ug/Kg			01/31/22 18:22	1
Bromomethane	1.02	U	4.65	1.02	ug/Kg			01/31/22 18:22	1
Trichlorofluoromethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Acrolein	7.99	U	46.5	7.99	ug/Kg			01/31/22 18:22	1
1,1-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
trans-1,2-Dichloroethene	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Methyl tert-butyl ether	0.567	U	4.65	0.567	ug/Kg			01/31/22 18:22	1
1,3-Dichlorobenzene	0.288	U	4.65	0.288	ug/Kg			01/31/22 18:22	1
Methylene Chloride	4.65	U	23.2	4.65	ug/Kg			01/31/22 18:22	1
Acrylonitrile	3.35	U	46.5	3.35	ug/Kg			01/31/22 18:22	1
cis-1,2-Dichloroethene	0.530	U	4.65	0.530	ug/Kg			01/31/22 18:22	1
Carbon tetrachloride	0.474	U	4.65	0.474	ug/Kg			01/31/22 18:22	1
Benzene	0.586	U	4.65	0.586	ug/Kg			01/31/22 18:22	1
1,2-Dichloroethane	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
Trichloroethene	0.260	U	4.65	0.260	ug/Kg			01/31/22 18:22	1
1,1,1-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
1,1-Dichloroethane	0.548	U	4.65	0.548	ug/Kg			01/31/22 18:22	1
1,2-Dichloropropane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
1,4-Dioxane	17.7	U	92.9	17.7	ug/Kg			01/31/22 18:22	1
Chloroform	0.809	U	4.65	0.809	ug/Kg			01/31/22 18:22	1
Bromodichloromethane	0.186	U	4.65	0.186	ug/Kg			01/31/22 18:22	1
1,1-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
cis-1,3-Dichloropropene	0.418	U	4.65	0.418	ug/Kg			01/31/22 18:22	1
Toluene	0.836	U	4.65	0.836	ug/Kg			01/31/22 18:22	1
trans-1,3-Dichloropropene	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
1,1,2-Trichloroethane	0.465	U	4.65	0.465	ug/Kg			01/31/22 18:22	1
Tetrachloroethene	0.688	U	4.65	0.688	ug/Kg			01/31/22 18:22	1
1,3-Dichloropropene, Total	0.483	U	4.65	0.483	ug/Kg			01/31/22 18:22	1
1,2-Dibromoethane	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Monochlorobenzene	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Ethylbenzene	0.418	U	4.65	0.418	ug/Kg			01/31/22 18:22	1
Xylenes, Total	0.465	U	9.29	0.465	ug/Kg			01/31/22 18:22	1
Styrene	0.279	U	4.65	0.279	ug/Kg			01/31/22 18:22	1
Tribromomethane	0.474	U	4.65	0.474	ug/Kg			01/31/22 18:22	1
1,1,2,2-Tetrachloroethane	0.353	U	4.65	0.353	ug/Kg			01/31/22 18:22	1
1,4-Dichlorobenzene	0.297	U	4.65	0.297	ug/Kg			01/31/22 18:22	1
1,2-Dichlorobenzene	0.232	U	4.65	0.232	ug/Kg			01/31/22 18:22	1
1,2,4-Trichlorobenzene	0.901	U	4.65	0.901	ug/Kg			01/31/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*01/31/22 18:22*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*01/31/22 18:22*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*01/31/22 18:22*	*1*
4-Bromofluorobenzene (Surr)	*107*		*61 - 142*		*01/31/22 18:22*	*1*

Method: 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		02/01/22 11:08	02/03/22 02:15	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:15*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.4	11.9	ug/Kg		02/10/22 13:33	02/14/22 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:02*	*1*

Method: 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		02/02/22 16:54	02/03/22 16:40	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Anthracene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Chrysene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Fluorene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Isophorone	14.5	U	167	14.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Pyrene	14.6	U	167	14.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Naphthalene	15.6	U	167	15.6	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Benzidine	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		02/02/22 16:54	02/03/22 16:40	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Atrazine	16.5	U	333	16.5	ug/Kg		02/02/22 16:54	02/03/22 16:40	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		02/02/22 16:54	02/03/22 16:40	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*	*02/02/22 16:54*	*02/03/22 16:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*30 - 115*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
2-Fluorophenol	*78*		*25 - 121*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
2,4,6-Tribromophenol	*105*		*19 - 122*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
Nitrobenzene-d5	*81*		*23 - 129*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
Phenol-d5 (Surr)	*81*		*24 - 113*	*02/02/22 16:54*	*02/03/22 16:40*	*1*
p-Terphenyl-d14 (Surr)	*104*		*18 - 137*	*02/02/22 16:54*	*02/03/22 16:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1
Diesel Range Organics (Over C10-C28)	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1
OII Range Organics (Over C28-C36)	20.9	U	49.5	20.9	mg/Kg		02/02/22 10:33	02/02/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:18*	*1*
o-Terphenyl (Surr)	*89*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:18*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, beta-	0.473	U	0.833	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Endrin aldehyde	0.247	U *	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Hexachlorocyclohexane, gamma-	0.438	U	0.833	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 14:06	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:06*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:28	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:28*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:28*	*1*

Method: 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	0.0948	0.0215	mg/Kg		02/05/22 11:25	02/10/22 13:23	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0408	U	0.190	0.0408	mg/Kg		02/05/22 11:25	02/10/22 13:23	1
2,4,6-Trinitrotoluene	0.0291	U	0.0948	0.0291	mg/Kg		02/05/22 11:25	02/10/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:23*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.8**		9.88	3.50	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrate as N	**24.7**		0.988	0.107	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Fluoride	**1.96**	**J**	4.94	0.988	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrite as N	**0.522**	**J**	0.988	0.0494	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Nitrate Nitrite as N	**25.2**		0.988	0.107	mg/Kg		02/01/22 20:42	02/02/22 02:56	1
Sulfate	**461**		9.88	4.27	mg/Kg		02/01/22 20:42	02/02/22 02:56	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0816	U	0.495	0.0816	ug/Kg		02/03/22 17:49	02/08/22 19:44	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U	0.742	0.213	ug/Kg		02/10/22 11:04	02/16/22 13:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	0.742	0.260	ug/Kg		02/10/22 11:04	02/16/22 13:33	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U	0.742	0.130	ug/Kg		02/10/22 11:04	02/16/22 13:33	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127 **Lab Sample ID: 860-19931-1**
Date Collected: 01/27/22 10:30 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*02/10/22 11:04*	*02/16/22 13:33*	*1*
13C8 PFOS	*105*		*70 - 130*	*02/10/22 11:04*	*02/16/22 13:33*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Arsenic	**2.34**	**J**	3.57	0.551	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Barium	**138**		3.57	0.310	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Beryllium	**0.195**	**J**	1.79	0.165	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Chromium	**4.80**		3.57	0.242	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Copper	**2.13**	**J**	3.57	0.233	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Iron	**3370**		17.9	2.09	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Manganese	**39.9**		1.79	0.227	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Lead	**2.09**		1.79	0.173	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Antimony	**2.38**		1.79	0.106	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Uranium	**0.322**	**J**	0.893	0.0534	mg/Kg		02/03/22 09:33	02/03/22 13:09	10
Zinc	**10.2**		3.57	0.395	mg/Kg		02/03/22 09:33	02/03/22 13:09	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00580**	**J**	0.0200	0.00384	mg/Kg		02/01/22 08:30	02/01/22 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**44.7**	**J**	60.6	30.1	ug/Kg		02/09/22 15:50	02/09/22 17:21	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:47	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**347**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.624**		0.160	0.176	1.00	0.123	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Radium-228	0.199	U	0.144	0.145		0.330	pCi/g	02/07/22 10:12	02/28/22 11:00	1
Combined Radium 226 + 228	**0.823**		0.215	0.228		0.330	pCi/g	02/07/22 10:12	02/28/22 11:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.681	U	4.66	0.681	ug/Kg			01/31/22 18:48	1
Chloromethane	1.12	U	4.66	1.12	ug/Kg			01/31/22 18:48	1
Vinyl chloride	0.560	U	4.66	0.560	ug/Kg			01/31/22 18:48	1
Bromomethane	1.03	U	4.66	1.03	ug/Kg			01/31/22 18:48	1
Trichlorofluoromethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Acrolein	8.02	U	46.6	8.02	ug/Kg			01/31/22 18:48	1
1,1-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
trans-1,2-Dichloroethene	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Methyl tert-butyl ether	0.569	U	4.66	0.569	ug/Kg			01/31/22 18:48	1
1,3-Dichlorobenzene	0.289	U	4.66	0.289	ug/Kg			01/31/22 18:48	1
Methylene Chloride	4.66	U	23.3	4.66	ug/Kg			01/31/22 18:48	1
Acrylonitrile	3.36	U	46.6	3.36	ug/Kg			01/31/22 18:48	1
cis-1,2-Dichloroethene	0.532	U	4.66	0.532	ug/Kg			01/31/22 18:48	1
Carbon tetrachloride	0.476	U	4.66	0.476	ug/Kg			01/31/22 18:48	1
Benzene	0.588	U	4.66	0.588	ug/Kg			01/31/22 18:48	1
1,2-Dichloroethane	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
Trichloroethene	0.261	U	4.66	0.261	ug/Kg			01/31/22 18:48	1
1,1,1-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
1,1-Dichloroethane	0.550	U	4.66	0.550	ug/Kg			01/31/22 18:48	1
1,2-Dichloropropane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
1,4-Dioxane	17.7	U	93.3	17.7	ug/Kg			01/31/22 18:48	1
Chloroform	0.812	U	4.66	0.812	ug/Kg			01/31/22 18:48	1
Bromodichloromethane	0.187	U	4.66	0.187	ug/Kg			01/31/22 18:48	1
1,1-Dichloropropene	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
cis-1,3-Dichloropropene	0.420	U	4.66	0.420	ug/Kg			01/31/22 18:48	1
Toluene	0.840	U	4.66	0.840	ug/Kg			01/31/22 18:48	1
trans-1,3-Dichloropropene	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
1,1,2-Trichloroethane	0.466	U	4.66	0.466	ug/Kg			01/31/22 18:48	1
Tetrachloroethene	0.690	U	4.66	0.690	ug/Kg			01/31/22 18:48	1
1,3-Dichloropropene, Total	0.485	U	4.66	0.485	ug/Kg			01/31/22 18:48	1
1,2-Dibromoethane	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Monochlorobenzene	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Ethylbenzene	0.420	U	4.66	0.420	ug/Kg			01/31/22 18:48	1
Xylenes, Total	0.466	U	9.33	0.466	ug/Kg			01/31/22 18:48	1
Styrene	0.280	U	4.66	0.280	ug/Kg			01/31/22 18:48	1
Tribromomethane	0.476	U	4.66	0.476	ug/Kg			01/31/22 18:48	1
1,1,2,2-Tetrachloroethane	0.354	U	4.66	0.354	ug/Kg			01/31/22 18:48	1
1,4-Dichlorobenzene	0.299	U	4.66	0.299	ug/Kg			01/31/22 18:48	1
1,2-Dichlorobenzene	0.233	U	4.66	0.233	ug/Kg			01/31/22 18:48	1
1,2,4-Trichlorobenzene	0.905	U	4.66	0.905	ug/Kg			01/31/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 152*		*01/31/22 18:48*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*01/31/22 18:48*	*1*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*01/31/22 18:48*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 18:48*	*1*

Method: 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		02/01/22 11:08	02/03/22 02:37	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.2	11.7	ug/Kg		02/10/22 13:33	02/14/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*91*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:28*	*1*

Method: 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		01/31/22 07:24	02/03/22 17:59	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,4-Dichlorophenol	17.3	U	166	17.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Anthracene	13.7	U	166	13.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Chrysene	16.4	U	166	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Isophorone	14.4	U	166	14.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodi-n-butylamine	25.1	U	166	25.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127
Lab Sample ID: 860-19931-2
Date Collected: 01/27/22 10:55
Matrix: Solid
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Pyrene	14.5	U	166	14.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Naphthalene	15.5	U	166	15.5	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Benzidine	12.0	U	332	12.0	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/31/22 07:24	02/03/22 17:59	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Atrazine	16.4	U *	332	16.4	ug/Kg		01/31/22 07:24	02/03/22 17:59	1
Thiophene, tetrahydro-, 1,1-dioxide	331	U	332	331	ug/Kg		01/31/22 07:24	02/03/22 17:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.663*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/03/22 17:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*30 - 115*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
2-Fluorophenol	*73*		*25 - 121*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
2,4,6-Tribromophenol	*96*		*19 - 122*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
Phenol-d5 (Surr)	*73*		*24 - 113*	*01/31/22 07:24*	*02/03/22 17:59*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 07:24*	*02/03/22 17:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:38*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:38*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:22	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 **Lab Sample ID: 860-19931-2**
Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 14:22	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:22*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:37	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:37*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:37*	*1*

Method: 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	0.0222	U	0.0978	0.0222	mg/Kg		02/05/22 11:25	02/10/22 13:46	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.196	0.0420	mg/Kg		02/05/22 11:25	02/10/22 13:46	1
2,4,6-Trinitrotoluene	0.0300	U	0.0978	0.0300	mg/Kg		02/05/22 11:25	02/10/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 13:46*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.36**	**J**	9.84	3.48	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrate as N	**10.4**		0.984	0.106	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Fluoride	**1.72**	**J**	4.92	0.984	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrite as N	**0.442**	**J**	0.984	0.0492	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Nitrate Nitrite as N	**10.8**		0.984	0.106	mg/Kg		02/01/22 20:42	02/02/22 03:08	1
Sulfate	**136**		9.84	4.25	mg/Kg		02/01/22 20:42	02/02/22 03:08	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0772	U	0.468	0.0772	ug/Kg		02/03/22 17:49	02/08/22 19:49	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U	0.771	0.222	ug/Kg		02/10/22 11:04	02/16/22 13:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.270	U	0.771	0.270	ug/Kg		02/10/22 11:04	02/16/22 13:42	1
Perfluorooctanesulfonic acid (PFOS)	0.135	U	0.771	0.135	ug/Kg		02/10/22 11:04	02/16/22 13:42	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 Lab Sample ID: 860-19931-2

Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 13:42	1
13C8 PFOS	104		70 - 130	02/10/22 11:04	02/16/22 13:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Arsenic	**2.83**	**J**	3.51	0.541	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Barium	**242**		3.51	0.304	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Chromium	**1.81**	**J**	3.51	0.238	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Copper	**1.35**	**J**	3.51	0.229	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Iron	**1370**		17.5	2.06	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Manganese	**12.9**		1.75	0.223	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Lead	**0.865**	**J**	1.75	0.170	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Antimony	0.104	U	1.75	0.104	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Uranium	**0.306**	**J**	0.877	0.0524	mg/Kg		02/03/22 09:33	02/03/22 16:51	10
Zinc	**5.44**		3.51	0.388	mg/Kg		02/03/22 09:33	02/03/22 16:51	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00824**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	59.8	29.7	ug/Kg		02/09/22 15:50	02/09/22 17:25	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 12:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**159**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.35**		0.231	0.281	1.00	0.141	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Radium-228	0.195	U	0.275	0.276		0.446	pCi/g	02/07/22 10:12	02/28/22 11:01	1
Combined Radium 226 + 228	**1.54**		0.359	0.394		0.446	pCi/g	02/07/22 10:12	02/28/22 11:01	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19931-1	Cell20-Square 66-S-3-4-220127	100	93	96	107
860-19931-2	Cell20-Square 40-S-3-4-220127	104	93	98	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19931-1	Cell20-Square 66-S-3-4-220127	106
860-19931-2	Cell20-Square 40-S-3-4-220127	111
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19931-1	Cell20-Square 66-S-3-4-220127	86
860-19931-2	Cell20-Square 40-S-3-4-220127	91
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend
TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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)
860-19931-1	Cell20-Square 66-S-3-4-220127	95	78	105	81	81	104
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	113	108	142 X	99	108	130
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	105	90	120	85	87	109
860-19931-2	Cell20-Square 40-S-3-4-220127	85	73	96	73	73	98
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82
LCS 860-40040/2-A	Lab Control Sample	114	115	131 X	101	104	124
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
LCSD 860-40040/3-A	Lab Control Sample Dup	115	109	131 X	99	106	124
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91
MB 860-40040/1-A	Method Blank	114	105	120	103	101	122

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
860-19931-1	Cell20-Square 66-S-3-4-220127	101	89
860-19931-2	Cell20-Square 40-S-3-4-220127	93	82
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)
860-19931-1	Cell20-Square 66-S-3-4-220127	95	103
860-19931-2	Cell20-Square 40-S-3-4-220127	92	90
LCS 860-39480/2-A	Lab Control Sample	101	123
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)								
MB 860-39480/1-A	Method Blank	96	108								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

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)								
860-19931-1	Cell20-Square 66-S-3-4-220127	82	95								
860-19931-2	Cell20-Square 40-S-3-4-220127	78	82								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
860-19931-1	Cell20-Square 66-S-3-4-220127	106									
860-19931-2	Cell20-Square 40-S-3-4-220127	105									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19931-1	Cell20-Square 66-S-3-4-220127	102	105								
860-19931-2	Cell20-Square 40-S-3-4-220127	103	104								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19931-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	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*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

Lab Sample ID: MB 860-40040/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

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		02/02/22 16:54	02/03/22 12:59	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Anthracene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Chrysene	16.5	U	167	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Fluorene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Isophorone	14.5	U	167	14.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-40040/1-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Pyrene	14.6	U	167	14.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Naphthalene	15.6	U	167	15.6	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Benzidine	12.1	U	333	12.1	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		02/02/22 16:54	02/03/22 12:59	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Atrazine	16.5	U	333	16.5	ug/Kg		02/02/22 16:54	02/03/22 12:59	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		02/02/22 16:54	02/03/22 12:59	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*	*02/02/22 16:54*	*02/03/22 12:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*114*		*30 - 115*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
2-Fluorophenol	*105*		*25 - 121*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
2,4,6-Tribromophenol	*120*		*19 - 122*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
Nitrobenzene-d5	*103*		*23 - 129*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
Phenol-d5 (Surr)	*101*		*24 - 113*	*02/02/22 16:54*	*02/03/22 12:59*	*1*
p-Terphenyl-d14 (Surr)	*122*		*18 - 137*	*02/02/22 16:54*	*02/03/22 12:59*	*1*

Lab Sample ID: LCS 860-40040/2-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1126		ug/Kg		84	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1260		ug/Kg		94	35 - 135
1-Methylnaphthalene	1330	1111		ug/Kg		83	38 - 127
bis (2-chloroisopropyl) ether	1330	741.6		ug/Kg		56	25 - 124
2,4,5-Trichlorophenol	1330	1294		ug/Kg		97	40 - 135
2,4,6-Trichlorophenol	1330	1322		ug/Kg		99	39 - 139
2,4-Dinitrotoluene	1330	1217		ug/Kg		91	48 - 131
Dinitrophenols	1330	997.0		ug/Kg		75	19 - 131
2,4-Dichlorophenol	1330	1230		ug/Kg		92	36 - 135
2,6-Dinitrotoluene	1330	1217		ug/Kg		91	42 - 136
Dichlorobenzidine, 3,3'-	1330	1003		ug/Kg		75	35 - 134
4,6-Dinitro-2-methylphenol	1330	1313		ug/Kg		98	30 - 146
Acenaphthene	1330	1148		ug/Kg		86	37 - 131
Anthracene	1330	1216		ug/Kg		91	39 - 139
Acenaphthylene	1330	1161		ug/Kg		87	39 - 129
Benzo[a]anthracene	1330	1149		ug/Kg		86	44 - 135
Benzo[b]fluoranthene	1330	1134		ug/Kg		85	40 - 153
Benzo[k]fluoranthene	1330	1295		ug/Kg		97	33 - 156

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-40040/2-A
Matrix: Solid
Analysis Batch: 40104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	1330	1208		ug/Kg		91	40 - 153
Benzo[a]pyrene	1330	1184		ug/Kg		89	43 - 153
Di (2-ethylhexyl)phthalate	1330	1236		ug/Kg		93	46 - 145
Bis(2-chloroethyl)ether	1330	941.4		ug/Kg		71	33 - 127
Chrysene	1330	1176		ug/Kg		88	42 - 135
Dibutylphthalate	1330	1170		ug/Kg		88	43 - 142
Dibenz(a,h)anthracene	1330	1173		ug/Kg		88	41 - 155
Diethyl phthalate	1330	1113		ug/Kg		83	45 - 131
Dimethyl phthalate	1330	1175		ug/Kg		88	43 - 132
Fluoranthene	1330	1147		ug/Kg		86	41 - 138
Fluorene	1330	1206		ug/Kg		90	41 - 131
Hexachlorobenzene	1330	1232		ug/Kg		92	36 - 142
Hexachlorobutadiene	1330	1196		ug/Kg		90	35 - 129
Hexachlorocyclopentadiene	1330	1289		ug/Kg		97	16 - 106
Hexachloroethane	1330	969.0		ug/Kg		73	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1169		ug/Kg		88	39 - 154
Isophorone	1330	1054		ug/Kg		79	36 - 128
N-Nitrosodi-n-butylamine	1330	1063		ug/Kg		80	34 - 135
N-Nitrosodiethylamine	1330	1186		ug/Kg		89	36 - 127
N-Nitrosodiphenylamine	1330	1268		ug/Kg		95	27 - 155
N-Nitrosopyrrolidine	1330	987.7		ug/Kg		74	38 - 136
Pentachlorobenzene	1330	1224		ug/Kg		92	38 - 136
Pentachlorophenol	1330	981.3		ug/Kg		74	14 - 148
Phenanthrene	1330	1212		ug/Kg		91	37 - 139
Pyrene	1330	1265		ug/Kg		95	42 - 138
Naphthalene	1330	1161		ug/Kg		87	35 - 128
2-Methylnaphthalene	1330	1135		ug/Kg		85	36 - 126
Nitrobenzene	1330	1073		ug/Kg		80	32 - 129
Benzidine	1330	630.4		ug/Kg		47	12 - 112
Phenol	1.33	1.054		mg/Kg		79	34 - 127
N-Nitrosodimethylamine	1330	1168		ug/Kg		88	27 - 126
Atrazine	1330	1341		ug/Kg		101	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	887.4		ug/Kg		67	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*114*		*30 - 115*
2-Fluorophenol	*115*		*25 - 121*
2,4,6-Tribromophenol	*131*	*X*	*19 - 122*
Nitrobenzene-d5	*101*		*23 - 129*
Phenol-d5 (Surr)	*104*		*24 - 113*
p-Terphenyl-d14 (Surr)	*124*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40040/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	1150		ug/Kg		86	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene	1330	1271		ug/Kg		95	35 - 135	1	30
1-Methylnaphthalene	1330	1116		ug/Kg		84	38 - 127	0	30
bis (2-chloroisopropyl) ether	1330	790.0		ug/Kg		59	25 - 124	6	30
2,4,5-Trichlorophenol	1330	1311		ug/Kg		98	40 - 135	1	30
2,4,6-Trichlorophenol	1330	1292		ug/Kg		97	39 - 139	2	30
2,4-Dinitrotoluene	1330	1225		ug/Kg		92	48 - 131	1	30
Dinitrophenols	1330	1053		ug/Kg		79	19 - 131	5	40
2,4-Dichlorophenol	1330	1262		ug/Kg		95	36 - 135	3	30
2,6-Dinitrotoluene	1330	1237		ug/Kg		93	42 - 136	2	30
Dichlorobenzidine, 3,3'-	1330	1023		ug/Kg		77	35 - 134	2	40
4,6-Dinitro-2-methylphenol	1330	1342		ug/Kg		101	30 - 146	2	40
Acenaphthene	1330	1147		ug/Kg		86	37 - 131	0	30
Anthracene	1330	1209		ug/Kg		91	39 - 139	1	30
Acenaphthylene	1330	1169		ug/Kg		88	39 - 129	1	30
Benzo[a]anthracene	1330	1166		ug/Kg		87	44 - 135	1	30
Benzo[b]fluoranthene	1330	1166		ug/Kg		87	40 - 153	3	30
Benzo[k]fluoranthene	1330	1289		ug/Kg		97	33 - 156	0	30
Benzo[g,h,i]perylene	1330	1186		ug/Kg		89	40 - 153	2	30
Benzo[a]pyrene	1330	1207		ug/Kg		91	43 - 153	2	30
Di (2-ethylhexyl)phthalate	1330	1271		ug/Kg		95	46 - 145	3	30
Bis(2-chloroethyl)ether	1330	974.7		ug/Kg		73	33 - 127	3	30
Chrysene	1330	1191		ug/Kg		89	42 - 135	1	30
Dibutylphthalate	1330	1167		ug/Kg		87	43 - 142	0	30
Dibenz(a,h)anthracene	1330	1169		ug/Kg		88	41 - 155	0	30
Diethyl phthalate	1330	1067		ug/Kg		80	45 - 131	4	30
Dimethyl phthalate	1330	1154		ug/Kg		87	43 - 132	2	30
Fluoranthene	1330	1119		ug/Kg		84	41 - 138	2	30
Fluorene	1330	1205		ug/Kg		90	41 - 131	0	30
Hexachlorobenzene	1330	1291		ug/Kg		97	36 - 142	5	30
Hexachlorobutadiene	1330	1185		ug/Kg		89	35 - 129	1	30
Hexachlorocyclopentadiene	1330	1295		ug/Kg		97	16 - 106	0	30
Hexachloroethane	1330	1006		ug/Kg		75	36 - 121	4	30
Indeno[1,2,3-cd]pyrene	1330	1157		ug/Kg		87	39 - 154	1	30
Isophorone	1330	1066		ug/Kg		80	36 - 128	1	30
N-Nitrosodi-n-butylamine	1330	1119		ug/Kg		84	34 - 135	5	30
N-Nitrosodiethylamine	1330	1186		ug/Kg		89	36 - 127	0	30
N-Nitrosodiphenylamine	1330	1244		ug/Kg		93	27 - 155	2	30
N-Nitrosopyrrolidine	1330	1086		ug/Kg		81	38 - 136	9	30
Pentachlorobenzene	1330	1225		ug/Kg		92	38 - 136	0	30
Pentachlorophenol	1330	1008		ug/Kg		76	14 - 148	3	40
Phenanthrene	1330	1174		ug/Kg		88	37 - 139	3	30
Pyrene	1330	1331		ug/Kg		100	42 - 138	5	30
Naphthalene	1330	1145		ug/Kg		86	35 - 128	1	30
2-Methylnaphthalene	1330	1126		ug/Kg		84	36 - 126	1	30
Nitrobenzene	1330	1068		ug/Kg		80	32 - 129	0	30
Benzidine	1330	685.7		ug/Kg		51	12 - 112	8	40
Phenol	1.33	1.078		mg/Kg		81	34 - 127	2	40

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40040/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine			1330	1046		ug/Kg		78	27 - 126	11	30
Atrazine			1330	1328		ug/Kg		100	18 - 134	1	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	853.4		ug/Kg		64	30 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*115*		*30 - 115*
2-Fluorophenol	*109*		*25 - 121*
2,4,6-Tribromophenol	*131*	*X*	*19 - 122*
Nitrobenzene-d5	*99*		*23 - 129*
Phenol-d5 (Surr)	*106*		*24 - 113*
p-Terphenyl-d14 (Surr)	*124*		*18 - 137*

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

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	1145		ug/Kg		86	20 - 157
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1242		ug/Kg		93	35 - 135
1-Methylnaphthalene	26.7	U	1330	1161		ug/Kg		87	38 - 127
bis (2-chloroisopropyl) ether	17.8	U	1330	807.4		ug/Kg		61	25 - 124
2,4,5-Trichlorophenol	19.0	U	1330	1343		ug/Kg		101	40 - 135
2,4,6-Trichlorophenol	15.7	U	1330	1342		ug/Kg		101	39 - 139
2,4-Dinitrotoluene	12.7	U	1330	1322		ug/Kg		99	48 - 131
Dinitrophenols	24.2	U	1330	986.4		ug/Kg		74	19 - 131
2,4-Dichlorophenol	17.4	U	1330	1248		ug/Kg		94	36 - 135
2,6-Dinitrotoluene	23.3	U	1330	1266		ug/Kg		95	42 - 136
Dichlorobenzidine, 3,3'-	15.4	U	1330	1185		ug/Kg		89	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1330	1390		ug/Kg		104	30 - 146
Acenaphthene	15.5	U	1330	1178		ug/Kg		88	37 - 131
Anthracene	13.8	U	1330	1278		ug/Kg		96	39 - 139
Acenaphthylene	14.8	U	1330	1181		ug/Kg		89	39 - 129
Benzo[a]anthracene	14.1	U	1330	1216		ug/Kg		91	44 - 135
Benzo[b]fluoranthene	12.6	U	1330	1293		ug/Kg		97	40 - 153
Benzo[k]fluoranthene	19.3	U	1330	1351		ug/Kg		101	33 - 156
Benzo[g,h,i]perylene	15.3	U	1330	1191		ug/Kg		89	40 - 153
Benzo[a]pyrene	17.2	U	1330	1310		ug/Kg		98	43 - 153
Di (2-ethylhexyl)phthalate	167	U	1330	1317		ug/Kg		99	46 - 145
Bis(2-chloroethyl)ether	15.2	U	1330	972.0		ug/Kg		73	33 - 127
Chrysene	16.5	U	1330	1267		ug/Kg		95	42 - 135
Dibutylphthalate	16.0	U	1330	1275		ug/Kg		96	43 - 142
Dibenz(a,h)anthracene	12.7	U	1330	1204		ug/Kg		90	41 - 155
Diethyl phthalate	15.3	U	1330	1161		ug/Kg		87	45 - 131
Dimethyl phthalate	15.9	U	1330	1196		ug/Kg		90	43 - 132
Fluoranthene	14.7	U	1330	1313		ug/Kg		99	41 - 138
Fluorene	13.8	U	1330	1255		ug/Kg		94	41 - 131
Hexachlorobenzene	16.2	U	1330	1310		ug/Kg		98	36 - 142

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	13.8	U	1330	1145		ug/Kg		86	35 - 129
Hexachlorocyclopentadiene	15.2	U	1330	1084		ug/Kg		81	16 - 106
Hexachloroethane	17.3	U	1330	987.7		ug/Kg		74	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1203		ug/Kg		90	39 - 154
Isophorone	14.5	U	1330	1039		ug/Kg		78	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1330	1100		ug/Kg		83	34 - 135
N-Nitrosodiethylamine	21.9	U	1330	1151		ug/Kg		86	36 - 127
N-Nitrosodiphenylamine	18.6	U	1330	1315		ug/Kg		99	27 - 155
N-Nitrosopyrrolidine	14.1	U	1330	1114		ug/Kg		84	38 - 136
Pentachlorobenzene	15.9	U	1330	1246		ug/Kg		94	38 - 136
Pentachlorophenol	12.1	U	1330	1151		ug/Kg		86	14 - 148
Phenanthrene	16.6	U	1330	1231		ug/Kg		92	37 - 139
Pyrene	14.6	U	1330	1340		ug/Kg		101	42 - 138
Naphthalene	15.6	U	1330	1115		ug/Kg		84	35 - 128
2-Methylnaphthalene	45.1	U	1330	1145		ug/Kg		86	36 - 126
Nitrobenzene	18.5	U	1330	1043		ug/Kg		78	32 - 129
Benzidine	12.1	U	1330	832.7		ug/Kg		63	12 - 112
Phenol	0.0150	U	1.33	1.084		mg/Kg		81	34 - 127
N-Nitrosodimethylamine	16.7	U	1330	1017		ug/Kg		76	27 - 126
Atrazine	16.5	U	1330	1234		ug/Kg		93	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	930.0		ug/Kg		70	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*113*		*30 - 115*
2-Fluorophenol	*108*		*25 - 121*
2,4,6-Tribromophenol	*142*	*X*	*19 - 122*
Nitrobenzene-d5	*99*		*23 - 129*
Phenol-d5 (Surr)	*108*		*24 - 113*
p-Terphenyl-d14 (Surr)	*130*		*18 - 137*

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

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	1038		ug/Kg		78	20 - 157	10	30
1,2,4,5-Tetrachlorobenzene	16.5	U	1330	1158		ug/Kg		87	35 - 135	7	30
1-Methylnaphthalene	26.7	U	1330	954.1		ug/Kg		72	38 - 127	20	30
bis (2-chloroisopropyl) ether	17.8	U	1330	678.9		ug/Kg		51	25 - 124	17	30
2,4,5-Trichlorophenol	19.0	U	1330	1218		ug/Kg		91	40 - 135	10	30
2,4,6-Trichlorophenol	15.7	U	1330	1185		ug/Kg		89	39 - 139	12	30
2,4-Dinitrotoluene	12.7	U	1330	1104		ug/Kg		83	48 - 131	18	30
Dinitrophenols	24.2	U	1330	824.1		ug/Kg		62	19 - 131	18	40
2,4-Dichlorophenol	17.4	U	1330	1040		ug/Kg		78	36 - 135	18	30
2,6-Dinitrotoluene	23.3	U	1330	1095		ug/Kg		82	42 - 136	14	30
Dichlorobenzidine, 3,3'-	15.4	U	1330	1074		ug/Kg		81	35 - 134	10	40
4,6-Dinitro-2-methylphenol	12.7	U	1330	1167		ug/Kg		88	30 - 146	17	40

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40104 **Prep Batch: 40040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	15.5	U	1330	1058		ug/Kg		79	37 - 131	11	30
Anthracene	13.8	U	1330	1136		ug/Kg		85	39 - 139	12	30
Acenaphthylene	14.8	U	1330	1071		ug/Kg		80	39 - 129	10	30
Benzo[a]anthracene	14.1	U	1330	1060		ug/Kg		80	44 - 135	14	30
Benzo[b]fluoranthene	12.6	U	1330	1048		ug/Kg		79	40 - 153	21	30
Benzo[k]fluoranthene	19.3	U	1330	1142		ug/Kg		86	33 - 156	17	30
Benzo[g,h,i]perylene	15.3	U	1330	1168		ug/Kg		88	40 - 153	2	30
Benzo[a]pyrene	17.2	U	1330	1113		ug/Kg		83	43 - 153	16	30
Di (2-ethylhexyl)phthalate	167	U	1330	1125		ug/Kg		84	46 - 145	16	30
Bis(2-chloroethyl)ether	15.2	U	1330	828.8		ug/Kg		62	33 - 127	16	30
Chrysene	16.5	U	1330	1085		ug/Kg		81	42 - 135	15	30
Dibutylphthalate	16.0	U	1330	1067		ug/Kg		80	43 - 142	18	30
Dibenz(a,h)anthracene	12.7	U	1330	1143		ug/Kg		86	41 - 155	5	30
Diethyl phthalate	15.3	U	1330	1016		ug/Kg		76	45 - 131	13	30
Dimethyl phthalate	15.9	U	1330	1063		ug/Kg		80	43 - 132	12	30
Fluoranthene	14.7	U	1330	1085		ug/Kg		81	41 - 138	19	30
Fluorene	13.8	U	1330	1083		ug/Kg		81	41 - 131	15	30
Hexachlorobenzene	16.2	U	1330	1145		ug/Kg		86	36 - 142	13	30
Hexachlorobutadiene	13.8	U	1330	1017		ug/Kg		76	35 - 129	12	30
Hexachlorocyclopentadiene	15.2	U	1330	976.7		ug/Kg		73	16 - 106	10	30
Hexachloroethane	17.3	U	1330	851.6		ug/Kg		64	36 - 121	15	30
Indeno[1,2,3-cd]pyrene	13.4	U	1330	1134		ug/Kg		85	39 - 154	6	30
Isophorone	14.5	U	1330	870.1		ug/Kg		65	36 - 128	18	30
N-Nitrosodi-n-butylamine	25.2	U	1330	902.0		ug/Kg		68	34 - 135	20	30
N-Nitrosodiethylamine	21.9	U	1330	965.2		ug/Kg		72	36 - 127	18	30
N-Nitrosodiphenylamine	18.6	U	1330	1150		ug/Kg		86	27 - 155	13	30
N-Nitrosopyrrolidine	14.1	U	1330	859.2		ug/Kg		64	38 - 136	26	30
Pentachlorobenzene	15.9	U	1330	1115		ug/Kg		84	38 - 136	11	30
Pentachlorophenol	12.1	U	1330	956.3		ug/Kg		72	14 - 148	18	40
Phenanthrene	16.6	U	1330	1087		ug/Kg		82	37 - 139	12	30
Pyrene	14.6	U	1330	1169		ug/Kg		88	42 - 138	14	30
Naphthalene	15.6	U	1330	976.6		ug/Kg		73	35 - 128	13	30
2-Methylnaphthalene	45.1	U	1330	949.9		ug/Kg		71	36 - 126	19	30
Nitrobenzene	18.5	U	1330	912.1		ug/Kg		68	32 - 129	13	30
Benzidine	12.1	U	1330	785.3		ug/Kg		59	12 - 112	6	40
Phenol	0.0150	U	1.33	0.8758		mg/Kg		66	34 - 127	21	40
N-Nitrosodimethylamine	16.7	U	1330	858.9		ug/Kg		64	27 - 126	17	30
Atrazine	16.5	U	1330	1106		ug/Kg		83	18 - 134	11	40
Thiophene, tetrahydro-, 1,1-dioxide	333	U	1330	778.6		ug/Kg		58		18	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*105*		*30 - 115*
2-Fluorophenol	*90*		*25 - 121*
2,4,6-Tribromophenol	*120*		*19 - 122*
Nitrobenzene-d5	*85*		*23 - 129*
Phenol-d5 (Surr)	*87*		*24 - 113*
p-Terphenyl-d14 (Surr)	*109*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Oil Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane - RA	*105*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*
o-Terphenyl (Surr) - RA	*97*		*65 - 130*	*02/01/22 12:48*	*02/02/22 17:41*	*1*

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1024		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28) - RA	996	974.9		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane - RA	*107*		*65 - 130*
o-Terphenyl (Surr) - RA	*100*		*65 - 130*

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA	994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA	996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane - RA	*110*		*65 - 130*
o-Terphenyl (Surr) - RA	*103*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	20.83		ug/Kg		125	13 - 192
Aldrin	16.7	20.27		ug/Kg		122	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.40		ug/Kg		116	29 - 160
Hexachlorocyclohexane, beta-	16.7	21.37		ug/Kg		128	30 - 155
Hexachlorocyclohexane, delta-	16.7	19.40		ug/Kg		116	20 - 161
Dieldrin	16.7	21.61		ug/Kg		130	33 - 153
Endosulfan I	16.7	20.94		ug/Kg		126	30 - 151
Endosulfan II	16.7	19.27		ug/Kg		116	27 - 153
Endosulfan sulfate	16.7	20.37		ug/Kg		122	15 - 170
Endrin	16.7	21.93		ug/Kg		132	25 - 162
Endrin aldehyde	16.7	20.13	*	ug/Kg		121	49 - 117
Hexachlorocyclohexane, gamma-	16.7	20.13		ug/Kg		121	30 - 158
Heptachlor	16.7	20.69		ug/Kg		124	29 - 163
Heptachlor epoxide	16.7	20.38		ug/Kg		122	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	16.7	20.06		ug/Kg		120	13 - 192	4	25

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-			16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-			16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin			16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I			16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II			16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate			16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin			16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde			16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor			16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide			16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1562		mg/Kg		94	27 - 121
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 860-3971/2-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99.5	99.43		mg/Kg		100	80 - 120
Nitrate as N	99.5	99.56		mg/Kg		100	80 - 120
Fluoride	99.5	100.2		mg/Kg		101	80 - 120
Nitrite as N	49.8	46.63		mg/Kg		94	80 - 120
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120
Sulfate	99.5	99.07		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-3971/3-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.5	99.88		mg/Kg		100	80 - 120	0	20
Nitrate as N	99.5	99.51		mg/Kg		100	80 - 120	0	20
Fluoride	99.5	100.3		mg/Kg		101	80 - 120	0	20
Nitrite as N	49.8	46.64		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120	0	20
Sulfate	99.5	99.07		mg/Kg		100	80 - 120	0	20

Lab Sample ID: MB 860-39863/1-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 17:11	02/02/22 09:59	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

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	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40114/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese			9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead			9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony			9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium			9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium			9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium			2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc			9.80	9.952		mg/Kg		102	80 - 120	5	20

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.142	U	4.55	4.578		mg/Kg		101	75 - 125
Arsenic	2.34	J	9.09	10.88		mg/Kg		94	75 - 125
Barium	138		9.09	144.9	4	mg/Kg		72	75 - 125
Beryllium	0.195	J	9.09	8.990		mg/Kg		97	75 - 125
Cadmium	0.104	U	9.09	8.506		mg/Kg		94	75 - 125
Chromium	4.80		9.09	13.25		mg/Kg		93	75 - 125
Copper	2.13	J	9.09	10.37		mg/Kg		91	75 - 125
Iron	3370		45.5	3384	4	mg/Kg		40	75 - 125
Manganese	39.9		9.09	47.73	4	mg/Kg		86	75 - 125
Lead	2.09		9.09	10.51		mg/Kg		93	75 - 125
Antimony	2.38		9.09	10.61		mg/Kg		91	75 - 125
Selenium	0.443	U	9.09	8.662		mg/Kg		95	75 - 125
Thallium	0.213	U	9.09	8.587		mg/Kg		94	75 - 125
Uranium	0.322	J	2.27	2.495		mg/Kg		96	75 - 125
Zinc	10.2		9.09	18.49		mg/Kg		91	75 - 125

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.142	U	4.24	4.267		mg/Kg		101	75 - 125	7	20
Arsenic	2.34	J	8.47	10.18		mg/Kg		93	75 - 125	7	20
Barium	138		8.47	134.4	4	mg/Kg		-46	75 - 125	7	20
Beryllium	0.195	J	8.47	8.252		mg/Kg		95	75 - 125	9	20
Cadmium	0.104	U	8.47	7.960		mg/Kg		94	75 - 125	7	20
Chromium	4.80		8.47	12.48		mg/Kg		91	75 - 125	6	20
Copper	2.13	J	8.47	9.736		mg/Kg		90	75 - 125	6	20
Iron	3370		42.4	3182	4	mg/Kg		-435	75 - 125	6	20
Manganese	39.9		8.47	44.43	4	mg/Kg		54	75 - 125	7	20
Lead	2.09		8.47	9.850		mg/Kg		92	75 - 125	6	20
Antimony	2.38		8.47	9.494		mg/Kg		84	75 - 125	11	20
Selenium	0.443	U	8.47	7.990		mg/Kg		94	75 - 125	8	20
Thallium	0.213	U	8.47	8.175		mg/Kg		96	75 - 125	5	20
Uranium	0.322	J	2.12	2.292		mg/Kg		93	75 - 125	8	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	10.2		8.47	17.18		mg/Kg		83	75 - 125	7	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 860-19931-1 MS **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00580	J	0.192	0.1729		mg/Kg		87	75 - 125

Lab Sample ID: 860-19931-1 MSD **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00580	J	0.192	0.1732		mg/Kg		87	75 - 125	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			100	102.7		ug/Kg		103	90 - 110		

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.26		ug/Kg		105	90 - 110		

Lab Sample ID: 860-19931-1 MS — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	44.7	J	2400	1214	N1	ug/Kg		49	90 - 110		

Lab Sample ID: 860-19931-1 MSD — **Client Sample ID: Cell20-Square 66-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	44.7	J	2410	1215	N1	ug/Kg		49	90 - 110	0	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total			1.00	1.120	*	mg/Kg		112	90 - 110		

Lab Sample ID: LCSD 860-42380/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	1.040		mg/Kg		104	90 - 110	7	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19931-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1
Matrix: Solid
Analysis Batch: 193206

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	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2
Matrix: Solid
Analysis Batch: 193206

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	2250	2124		mg/L		94	90 - 110

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	5035	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8260B	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Prep Batch: 40040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-40040/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40040/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40040/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	

Analysis Batch: 40104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8270D	39525
MB 860-40040/1-A	Method Blank	Total/NA	Solid	8270D	40040
LCS 860-40040/2-A	Lab Control Sample	Total/NA	Solid	8270D	40040
LCSD 860-40040/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	40040
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 40104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	40040

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3546	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3550C	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Prep Batch: 3971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	MEHL Prep	
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	MEHL Prep	

Analysis Batch: 39718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Analysis Batch: 39719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/1-A	Method Blank	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6860	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6860	565161
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19931-2 DU	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Soluble	Solid	DI Leach	
860-19931-2	Cell20-Square 40-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Soluble	Solid	9045D	40845
860-19931-2	Cell20-Square 40-S-3-4-220127	Soluble	Solid	9045D	40845

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886
860-19931-1 MS	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19931-1 MSD	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	9066	42380
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19931-2	Cell20-Square 40-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19931-2	Cell20-Square 40-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Rad (Continued)

Leach Batch: 549041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19931-1	Cell20-Square 66-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19931-2	Cell20-Square 40-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 66-S-3-4-220127
Lab Sample ID: 860-19931-1
Date Collected: 01/27/22 10:30
Matrix: Solid
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.38 g	5 mL	192708	01/31/22 18:22	RJD	XEN CC
Total/NA	Prep	5035			5.01 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:15	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	40040	02/02/22 16:54	JN	XEN STF
Total/NA	Analysis	8270D		1			40104	02/03/22 16:40	PXS	XEN STF
Total/NA	Prep	3546			15.14 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:02	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.1 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:18	T1S	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:06	WP	XEN STF
Total/NA	Prep	3550C			30.02 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:28	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.55 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:23	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 02:56	WP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 02:56	WP	XEN STF
Total/NA	Prep	6860			10.1 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:44	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:33	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40171	02/03/22 13:09	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:27	SHZ	XEN STF
Total/NA	Prep	9012A			0.4949 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:21	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:47	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			309.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 11:00	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 40-S-3-4-220127 Lab Sample ID: 860-19931-2

Date Collected: 01/27/22 10:55 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.36 g	5 mL	192708	01/31/22 18:48	RJD	XEN CC
Total/NA	Prep	5035			4.96 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:37	A1S	XEN STF
Total/NA	Prep	3550C			30.15 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		1			40104	02/03/22 17:59	PXS	XEN STF
Total/NA	Prep	3546			15.43 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:28	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:38	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:22	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:37	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.23 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 13:46	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:08	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:08	WP	XEN STF
Total/NA	Prep	6860			10.68 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:49	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.38 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:42	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:51	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:37	SHZ	XEN STF
Total/NA	Prep	9012A			0.5016 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:25	CM1	XEN STF
Soluble	Leach	DI Leach			20.04 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.04 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 12:00	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			292.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 11:01	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19931-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19931-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19931-1	Cell20-Square 66-S-3-4-220127	Solid	01/27/22 10:30	01/28/22 10:19
860-19931-2	Cell20-Square 40-S-3-4-220127	Solid	01/27/22 10:55	01/28/22 10:19

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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: Tony Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-559-5994	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1-1
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	6330B 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 228/228- 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:																		
Cell20-Square 66-S-3-4-220127	1/27/22	1030	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell20-Square 40-S-3-4-220127	1/27/22	1055	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19931 Chain of Custody

Temp: 2.5 IR ID HOU-323
C/F +0.2
Corrected Temp: 2.7

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
	Tony Rodriguez	1/27/22 1700	Arcadis			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					1/28/22 10:19	
	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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

2/28/2022

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/16/2022			
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, 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:									
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	1	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 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 out 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 complicance 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	Linda	1/28/22		FED EX		
2					1/31/22 0905	ETA SLC
3	FED EX					

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
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

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	X	X	2	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 Central		Solid			X	X	X	2	

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:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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:	1/28/22			01/29/2022 KB	ESTHOUSTON
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: 1.6 IR 13-0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Houston
oriar Dr
, TX 77477
e: 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: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19931-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
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#:			

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:

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square 66-S-3-4-220127 (860-19931-1)	1/27/22	10:30 Central		Solid			X	1	
Cell20-Square 40-S-3-4-220127 (860-19931-2)	1/27/22	10:55 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 out 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 complicance 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: 1/27	Company	Received by:	Date/Time: 1-27-22 839	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: 4.6 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:19 AM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19931-1

Login Number: 19931 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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?	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").	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: 860-19931-1

Login Number: 19931 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19931-1

Login Number: 19931 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19938-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:03:48 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19938-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control 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 TICs

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

GC Semi 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.

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
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
*	LCS or LCSD is outside acceptance limits.
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.

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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19938-1

Receipt
The samples were received on 1/28/2022 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC/MS VOA
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_AgChem: The following sample was diluted due to the nature of the sample matrix: Cell21-Square 146-S-3-4-220127 (860-19938-1). Elevated reporting limits (RLs) are provided.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2). 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.

GC Semi VOA
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
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell21-Square 146-S-3-4-220127 (860-19938-1) and Cell21-Square 41-S-3-4-220127 (860-19938-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 8330B.

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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1 (Continued)

Laboratory: Eurofins Houston (Continued)

LCMS

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

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell21-Square 146-S-3-4-220127 (860-19938-1). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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

General Chemistry

Method 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell21-Square 146-S-3-4-220127 (860-19938 -1), Cell21-Square 41-S-3-4-220127 (860-19938-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 Lab Sample ID: 860-19938-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2.00	J	8.43	0.422	ug/Kg	1		8260B	Total/NA
Diesel Range Organics (Over C10-C28)	25.5	J	49.8	21.0	mg/Kg	1		8015B NM	Total/NA
Nitrate as N	3.93		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	6.95		5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.602	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	4.53		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	71.1		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	2.06	J	3.70	0.571	mg/Kg	10		6020A	Total/NA
Barium	201		3.70	0.321	mg/Kg	10		6020A	Total/NA
Beryllium	0.202	J	1.85	0.171	mg/Kg	10		6020A	Total/NA
Chromium	4.69		3.70	0.251	mg/Kg	10		6020A	Total/NA
Copper	1.93	J	3.70	0.242	mg/Kg	10		6020A	Total/NA
Iron	3560		18.5	2.17	mg/Kg	10		6020A	Total/NA
Manganese	34.1		1.85	0.236	mg/Kg	10		6020A	Total/NA
Lead	2.39		1.85	0.179	mg/Kg	10		6020A	Total/NA
Antimony	0.120	J	1.85	0.110	mg/Kg	10		6020A	Total/NA
Uranium	0.289	J	0.926	0.0554	mg/Kg	10		6020A	Total/NA
Zinc	14.6		3.70	0.410	mg/Kg	10		6020A	Total/NA
Mercury	0.00582	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	46.4	J	59.4	29.5	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	204		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square 41-S-3-4-220127 Lab Sample ID: 860-19938-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	14.1		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.25	J	5.08	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.613	J	1.02	0.0508	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	14.7		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	346		10.2	4.39	mg/Kg	1		9056A	Total/NA
Arsenic	2.43	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	260		3.51	0.304	mg/Kg	10		6020A	Total/NA
Chromium	2.93	J	3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.19	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	2460		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	23.5		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	1.41	J	1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.127	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.362	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	8.43		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00573	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	249		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.616	U	4.22	0.616	ug/Kg			01/31/22 19:13	1
Chloromethane	1.01	U	4.22	1.01	ug/Kg			01/31/22 19:13	1
Vinyl chloride	0.506	U	4.22	0.506	ug/Kg			01/31/22 19:13	1
Bromomethane	0.927	U	4.22	0.927	ug/Kg			01/31/22 19:13	1
Trichlorofluoromethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Acrolein	7.25	U	42.2	7.25	ug/Kg			01/31/22 19:13	1
1,1-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
trans-1,2-Dichloroethene	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Methyl tert-butyl ether	0.514	U	4.22	0.514	ug/Kg			01/31/22 19:13	1
1,3-Dichlorobenzene	0.261	U	4.22	0.261	ug/Kg			01/31/22 19:13	1
Methylene Chloride	4.22	U	21.1	4.22	ug/Kg			01/31/22 19:13	1
Acrylonitrile	3.04	U	42.2	3.04	ug/Kg			01/31/22 19:13	1
cis-1,2-Dichloroethene	0.481	U	4.22	0.481	ug/Kg			01/31/22 19:13	1
Carbon tetrachloride	0.430	U	4.22	0.430	ug/Kg			01/31/22 19:13	1
Benzene	0.531	U	4.22	0.531	ug/Kg			01/31/22 19:13	1
1,2-Dichloroethane	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
Trichloroethene	0.236	U	4.22	0.236	ug/Kg			01/31/22 19:13	1
1,1,1-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
1,1-Dichloroethane	0.497	U	4.22	0.497	ug/Kg			01/31/22 19:13	1
1,2-Dichloropropane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
1,4-Dioxane	16.0	U	84.3	16.0	ug/Kg			01/31/22 19:13	1
Chloroform	0.734	U	4.22	0.734	ug/Kg			01/31/22 19:13	1
Bromodichloromethane	0.169	U	4.22	0.169	ug/Kg			01/31/22 19:13	1
1,1-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
cis-1,3-Dichloropropene	0.379	U	4.22	0.379	ug/Kg			01/31/22 19:13	1
Toluene	0.759	U	4.22	0.759	ug/Kg			01/31/22 19:13	1
trans-1,3-Dichloropropene	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
1,1,2-Trichloroethane	0.422	U	4.22	0.422	ug/Kg			01/31/22 19:13	1
Tetrachloroethene	0.624	U	4.22	0.624	ug/Kg			01/31/22 19:13	1
1,3-Dichloropropene, Total	0.438	U	4.22	0.438	ug/Kg			01/31/22 19:13	1
1,2-Dibromoethane	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Monochlorobenzene	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Ethylbenzene	0.379	U	4.22	0.379	ug/Kg			01/31/22 19:13	1
Xylenes, Total	**2.00**	**J**	8.43	0.422	ug/Kg			01/31/22 19:13	1
Styrene	0.253	U	4.22	0.253	ug/Kg			01/31/22 19:13	1
Tribromomethane	0.430	U	4.22	0.430	ug/Kg			01/31/22 19:13	1
1,1,2,2-Tetrachloroethane	0.320	U	4.22	0.320	ug/Kg			01/31/22 19:13	1
1,4-Dichlorobenzene	0.270	U	4.22	0.270	ug/Kg			01/31/22 19:13	1
1,2-Dichlorobenzene	0.211	U	4.22	0.211	ug/Kg			01/31/22 19:13	1
1,2,4-Trichlorobenzene	0.818	U	4.22	0.818	ug/Kg			01/31/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/31/22 19:13*	*1*
Toluene-d8 (Surr)	*98*		*65 - 139*		*01/31/22 19:13*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/31/22 19:13*	*1*
4-Bromofluorobenzene (Surr)	*129*		*61 - 142*		*01/31/22 19:13*	*1*

Method: 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		02/01/22 11:08	02/01/22 21:16	1

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Released to Imaging: 1/29/2025 3:31:29 PM

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127
Lab Sample ID: 860-19938-1
Date Collected: 01/27/22 13:36
Matrix: Solid
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*	*02/01/22 11:08*	*02/01/22 21:16*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	59.3	U	326	59.3	ug/Kg		02/10/22 13:33	02/14/22 19:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:33*	*02/14/22 19:10*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	169	U	1620	169	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
1,2,4,5-Tetrachlorobenzene	160	U	1620	160	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
1-Methylnaphthalene	260	U	1620	260	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
bis (2-chloroisopropyl) ether	173	U	1620	173	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4,5-Trichlorophenol	185	U	1620	185	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4,6-Trichlorophenol	153	U	1620	153	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4-Dinitrotoluene	124	U	1620	124	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dinitrophenols	235	U	3240	235	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,4-Dichlorophenol	170	U	1620	170	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2,6-Dinitrotoluene	226	U	1620	226	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dichlorobenzidine, 3,3'-	150	U	3240	150	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
4,6-Dinitro-2-methylphenol	124	U	3240	124	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Acenaphthene	151	U	1620	151	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Anthracene	134	U	1620	134	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Acenaphthylene	144	U	1620	144	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[a]anthracene	137	U	1620	137	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[b]fluoranthene	122	U	1620	122	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[k]fluoranthene	188	U	1620	188	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[g,h,i]perylene	149	U	1620	149	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzo[a]pyrene	167	U	1620	167	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Di (2-ethylhexyl)phthalate	1620	U	3240	1620	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Bis(2-chloroethyl)ether	148	U	1620	148	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Chrysene	161	U	1620	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dibutylphthalate	156	U	1620	156	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dibenz(a,h)anthracene	123	U	1620	123	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Diethyl phthalate	149	U	1620	149	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Dimethyl phthalate	154	U	1620	154	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Fluoranthene	143	U	1620	143	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Fluorene	135	U	1620	135	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorobenzene	158	U	1620	158	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorobutadiene	135	U	1620	135	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachlorocyclopentadiene	148	U	1620	148	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Hexachloroethane	168	U	1620	168	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Indeno[1,2,3-cd]pyrene	131	U	1620	131	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Isophorone	141	U	1620	141	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodi-n-butylamine	246	U	1620	246	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodiethylamine	213	U	1620	213	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodiphenylamine	181	U	1620	181	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosopyrrolidine	137	U	1620	137	ug/Kg		01/31/22 07:24	02/02/22 03:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	155	U	1620	155	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Pentachlorophenol	118	U	3240	118	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Phenanthrene	161	U	1620	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Pyrene	142	U	1620	142	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Naphthalene	152	U	1620	152	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
2-Methylnaphthalene	439	U	1620	439	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Nitrobenzene	180	U	1620	180	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Benzidine	118	U	3240	118	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Phenol	0.146	U	3.24	0.146	mg/Kg		01/31/22 07:24	02/02/22 03:49	10
N-Nitrosodimethylamine	163	U	1620	163	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Atrazine	161	U *	3240	161	ug/Kg		01/31/22 07:24	02/02/22 03:49	10
Thiophene, tetrahydro-, 1,1-dioxide	3240	U	3240	3240	ug/Kg		01/31/22 07:24	02/02/22 03:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.48*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 03:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*30 - 115*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
2-Fluorophenol	*71*		*25 - 121*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
2,4,6-Tribromophenol	*76*		*19 - 122*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
Nitrobenzene-d5	*59*		*23 - 129*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/31/22 07:24*	*02/02/22 03:49*	*10*
p-Terphenyl-d14 (Surr)	*75*		*18 - 137*	*01/31/22 07:24*	*02/02/22 03:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1
Diesel Range Organics (Over C10-C28)	**25.5**	**J**	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:57*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/02/22 10:33*	*02/02/22 21:57*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:38	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/29/22 11:03	01/31/22 14:38	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:38*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:47	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:47*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:47*	*1*

Method: 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	0.0949	0.0215	mg/Kg		02/05/22 11:25	02/10/22 14:32	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0408	U	0.190	0.0408	mg/Kg		02/05/22 11:25	02/10/22 14:32	1
2,4,6-Trinitrotoluene	0.0291	U	0.0949	0.0291	mg/Kg		02/05/22 11:25	02/10/22 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 14:32*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.56	U	10.1	3.56	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrate as N	**3.93**		1.01	0.109	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Fluoride	**6.95**		5.03	1.01	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrite as N	**0.602**	**J**	1.01	0.0503	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Nitrate Nitrite as N	**4.53**		1.01	0.109	mg/Kg		02/01/22 20:42	02/02/22 03:20	1
Sulfate	**71.1**		10.1	4.35	mg/Kg		02/01/22 20:42	02/02/22 03:20	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0800	U	0.485	0.0800	ug/Kg		02/03/22 17:49	02/08/22 19:54	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.229	U	0.796	0.229	ug/Kg		02/10/22 11:04	02/16/22 13:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U	0.796	0.279	ug/Kg		02/10/22 11:04	02/16/22 13:50	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.796	0.139	ug/Kg		02/10/22 11:04	02/16/22 13:50	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		57 - 153	02/10/22 11:04	02/16/22 13:50	1
13C8 PFOS	109		70 - 130	02/10/22 11:04	02/16/22 13:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.147	U	1.85	0.147	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Arsenic	**2.06**	**J**	3.70	0.571	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Barium	**201**		3.70	0.321	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Beryllium	**0.202**	**J**	1.85	0.171	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Cadmium	0.107	U	1.85	0.107	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Chromium	**4.69**		3.70	0.251	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Copper	**1.93**	**J**	3.70	0.242	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Iron	**3560**		18.5	2.17	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Manganese	**34.1**		1.85	0.236	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Lead	**2.39**		1.85	0.179	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Antimony	**0.120**	**J**	1.85	0.110	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Selenium	0.459	U	1.85	0.459	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Thallium	0.221	U	1.85	0.221	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Uranium	**0.289**	**J**	0.926	0.0554	mg/Kg		02/03/22 09:33	02/03/22 16:54	10
Zinc	**14.6**		3.70	0.410	mg/Kg		02/03/22 09:33	02/03/22 16:54	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00582**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**46.4**	**J**	59.4	29.5	ug/Kg		02/09/22 15:50	02/09/22 17:27	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**204**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.451**		0.103	0.113	1.00	0.0735	pCi/g	02/07/22 10:12	02/28/22 11:44	1
Radium-228	**0.262**		0.145	0.148		0.220	pCi/g	02/07/22 10:12	02/28/22 11:44	1
Combined Radium 226 + 228	**0.713**		0.178	0.186		0.220	pCi/g	02/07/22 10:12	02/28/22 11:44	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/31/22 19:39	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/31/22 19:39	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/31/22 19:39	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/31/22 19:39	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/31/22 19:39	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/31/22 19:39	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/31/22 19:39	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/31/22 19:39	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/31/22 19:39	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/31/22 19:39	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/31/22 19:39	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/31/22 19:39	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/31/22 19:39	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/31/22 19:39	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/31/22 19:39	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/31/22 19:39	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/31/22 19:39	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/31/22 19:39	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/31/22 19:39	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 19:39	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			01/31/22 19:39	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/31/22 19:39	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/31/22 19:39	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/31/22 19:39	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/31/22 19:39	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/31/22 19:39	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/31/22 19:39	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/31/22 19:39	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/31/22 19:39	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/31/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*		*01/31/22 19:39*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 19:39*	*1*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*01/31/22 19:39*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 19:39*	*1*

Method: 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		02/01/22 11:08	02/03/22 01:31	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*	*02/01/22 11:08*	*02/03/22 01:31*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:33*	*02/14/22 19:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
1,2,4,5-Tetrachlorobenzene	163	U	1650	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
1-Methylnaphthalene	264	U	1650	264	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
bis (2-chloroisopropyl) ether	176	U	1650	176	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4,5-Trichlorophenol	188	U	1650	188	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dinitrophenols	239	U	3300	239	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,4-Dichlorophenol	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2,6-Dinitrotoluene	230	U	1650	230	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dichlorobenzidine, 3,3'-	152	U	3300	152	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
4,6-Dinitro-2-methylphenol	126	U	3300	126	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Acenaphthene	153	U	1650	153	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Acenaphthylene	146	U	1650	146	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[a]anthracene	139	U	1650	139	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[b]fluoranthene	124	U	1650	124	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[k]fluoranthene	191	U	1650	191	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzo[a]pyrene	170	U	1650	170	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Di (2-ethylhexyl)phthalate	1650	U	3300	1650	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Bis(2-chloroethyl)ether	150	U	1650	150	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Chrysene	163	U	1650	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dibenz(a,h)anthracene	125	U	1650	125	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Diethyl phthalate	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Dimethyl phthalate	157	U	1650	157	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Fluoranthene	145	U	1650	145	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorobenzene	160	U	1650	160	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachlorocyclopentadiene	150	U	1650	150	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Hexachloroethane	171	U	1650	171	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Isophorone	143	U	1650	143	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodi-n-butylamine	250	U	1650	250	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodiethylamine	217	U	1650	217	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodiphenylamine	184	U	1650	184	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosopyrrolidine	139	U	1650	139	ug/Kg		01/31/22 07:24	02/02/22 04:14	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	157	U	1650	157	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Pentachlorophenol	120	U	3300	120	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Phenanthrene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Pyrene	144	U	1650	144	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Naphthalene	154	U	1650	154	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
2-Methylnaphthalene	447	U	1650	447	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Nitrobenzene	183	U	1650	183	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Benzidine	120	U	3300	120	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Phenol	0.148	U	3.30	0.148	mg/Kg		01/31/22 07:24	02/02/22 04:14	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Atrazine	163	U *	3300	163	ug/Kg		01/31/22 07:24	02/02/22 04:14	10
Thiophene, tetrahydro-, 1,1-dioxide	3290	U	3300	3290	ug/Kg		01/31/22 07:24	02/02/22 04:14	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.59*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 04:14*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*30 - 115*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
2-Fluorophenol	*70*		*25 - 121*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
2,4,6-Tribromophenol	*86*		*19 - 122*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
Nitrobenzene-d5	*58*		*23 - 129*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
Phenol-d5 (Surr)	*64*		*24 - 113*	*01/31/22 07:24*	*02/02/22 04:14*	*10*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*	*01/31/22 07:24*	*02/02/22 04:14*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:17*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 14:54	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 **Lab Sample ID: 860-19938-2**
Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		01/29/22 11:03	01/31/22 14:54	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*35 - 135*	*01/29/22 11:03*	*01/31/22 14:54*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*25 - 143*	*01/29/22 11:03*	*01/31/22 14:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:57	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:57*	*1*

Method: 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	0.0940	0.0213	mg/Kg		02/05/22 11:25	02/10/22 14:55	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0404	U	0.188	0.0404	mg/Kg		02/05/22 11:25	02/10/22 14:55	1
2,4,6-Trinitrotoluene	0.0289	U	0.0940	0.0289	mg/Kg		02/05/22 11:25	02/10/22 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*02/05/22 11:25*	*02/10/22 14:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.60	U	10.2	3.60	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrate as N	**14.1**		1.02	0.110	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Fluoride	**4.25**	**J**	5.08	1.02	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrite as N	**0.613**	**J**	1.02	0.0508	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Nitrate Nitrite as N	**14.7**		1.02	0.110	mg/Kg		02/01/22 20:42	02/02/22 03:32	1
Sulfate	**346**		10.2	4.39	mg/Kg		02/01/22 20:42	02/02/22 03:32	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0813	U	0.493	0.0813	ug/Kg		02/03/22 17:49	02/08/22 20:15	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.211	U	0.735	0.211	ug/Kg		02/10/22 11:04	02/16/22 13:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.257	U	0.735	0.257	ug/Kg		02/10/22 11:04	02/16/22 13:59	1
Perfluorooctanesulfonic acid (PFOS)	0.129	U	0.735	0.129	ug/Kg		02/10/22 11:04	02/16/22 13:59	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127 Lab Sample ID: 860-19938-2

Date Collected: 01/27/22 14:10 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	02/10/22 11:04	02/16/22 13:59	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 13:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Arsenic	**2.43**	**J**	3.51	0.541	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Barium	**260**		3.51	0.304	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Beryllium	0.162	U	1.75	0.162	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Chromium	**2.93**	**J**	3.51	0.238	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Copper	**1.19**	**J**	3.51	0.229	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Iron	**2460**		17.5	2.06	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Manganese	**23.5**		1.75	0.223	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Lead	**1.41**	**J**	1.75	0.170	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Antimony	**0.127**	**J**	1.75	0.104	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Uranium	**0.362**	**J**	0.877	0.0524	mg/Kg		02/03/22 09:33	02/03/22 16:57	10
Zinc	**8.43**		3.51	0.388	mg/Kg		02/03/22 09:33	02/03/22 16:57	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00573**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.5	U	57.5	28.5	ug/Kg		02/09/22 15:50	02/09/22 17:28	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:44	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**249**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.24**		0.208	0.244	1.00	0.0927	pCi/g	02/07/22 10:12	02/28/22 11:45	1
Radium-228	0.171	U	0.303	0.304		0.346	pCi/g	02/07/22 10:12	02/28/22 11:45	1
Combined Radium 226 + 228	**1.41**		0.368	0.390		0.346	pCi/g	02/07/22 10:12	02/28/22 11:45	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19938-1	Cell21-Square 146-S-3-4-220127	96	98	95	129
860-19938-2	Cell21-Square 41-S-3-4-220127	96	95	96	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19938-1	Cell21-Square 146-S-3-4-220127	88
860-19938-2	Cell21-Square 41-S-3-4-220127	108
LCS 860-39864/11	Lab Control Sample	90
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-39864/12	Lab Control Sample Dup	92
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-39864/16	Method Blank	91
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19938-1	Cell21-Square 146-S-3-4-220127	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)								
		TPP								
Lab Sample ID	Client Sample ID	(30-164)								
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	102								
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	105								
860-19938-2	Cell21-Square 41-S-3-4-220127	95								
LCS 400-566137/2-A	Lab Control Sample	98								
MB 400-566137/1-A	Method Blank	95								

Surrogate Legend

TPP = Triphenylphosphate

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)		
860-19938-1	Cell21-Square 146-S-3-4-220127	66	71	76	59	71	75		
860-19938-2	Cell21-Square 41-S-3-4-220127	68	70	86	58	64	82		
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82		
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99		
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91		

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

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

		Percent Surrogate Recovery (Acceptance Limits)								
		1CO1	OTPH1							
Lab Sample ID	Client Sample ID	(65-130)	(65-130)							
860-19938-1	Cell21-Square 146-S-3-4-220127	90	79							
860-19938-2	Cell21-Square 41-S-3-4-220127	90	79							
LCS 860-39790/2-A - RA	Lab Control Sample	107	100							
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103							
MB 860-39790/1-A - RA	Method Blank	105	97							

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(35-135)	(25-143)								
860-19938-1	Cell21-Square 146-S-3-4-220127	71	87								
860-19938-2	Cell21-Square 41-S-3-4-220127	89	99								
LCS 860-39480/2-A	Lab Control Sample	101	123								
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112								
MB 860-39480/1-A	Method Blank	96	108								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

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)								
860-19938-1	Cell21-Square 146-S-3-4-220127	58	93								
860-19938-2	Cell21-Square 41-S-3-4-220127	73	98								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
		12DNB1									
Lab Sample ID	Client Sample ID	(83-122)									
860-19938-1	Cell21-Square 146-S-3-4-220127	105									
860-19938-2	Cell21-Square 41-S-3-4-220127	105									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
		C8PFOA	C8PFOS								
Lab Sample ID	Client Sample ID	(57-153)	(70-130)								
860-19938-1	Cell21-Square 146-S-3-4-220127	105	109								
860-19938-2	Cell21-Square 41-S-3-4-220127	101	105								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19938-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCS 560-192708/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39864/16
Matrix: Solid
Analysis Batch: 39864

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			02/01/22 17:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*02/01/22 17:15*	*1*

Lab Sample ID: LCS 860-39864/11
Matrix: Solid
Analysis Batch: 39864

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	0.04692		mg/Kg		94	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 144*

Lab Sample ID: LCSD 860-39864/12
Matrix: Solid
Analysis Batch: 39864

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	0.04791		mg/Kg		96	65 - 135	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Lab Sample ID: MB 860-40051/16
Matrix: Solid
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11
Matrix: Solid
Analysis Batch: 40051

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	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

Lab Sample ID: 860-19938-1 MS — **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	59.3	U	330	307.6	J	ug/Kg		93	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*102*		*30 - 164*

Lab Sample ID: 860-19938-1 MSD — **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	59.3	U	331	332.8		ug/Kg		101	40 - 140	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*105*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	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*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA	105		65 - 130	02/01/22 12:48	02/02/22 17:41	1
o-Terphenyl (Surr) - RA	97		65 - 130	02/01/22 12:48	02/02/22 17:41	1

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1024		mg/Kg		103	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	100		65 - 130

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane - RA	110		65 - 130
o-Terphenyl (Surr) - RA	103		65 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	20.83		ug/Kg		125	13 - 192
Aldrin	16.7	20.27		ug/Kg		122	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.40		ug/Kg		116	29 - 160
Hexachlorocyclohexane, beta-	16.7	21.37		ug/Kg		128	30 - 155
Hexachlorocyclohexane, delta-	16.7	19.40		ug/Kg		116	20 - 161
Dieldrin	16.7	21.61		ug/Kg		130	33 - 153
Endosulfan I	16.7	20.94		ug/Kg		126	30 - 151
Endosulfan II	16.7	19.27		ug/Kg		116	27 - 153
Endosulfan sulfate	16.7	20.37		ug/Kg		122	15 - 170
Endrin	16.7	21.93		ug/Kg		132	25 - 162
Endrin aldehyde	16.7	20.13	*	ug/Kg		121	49 - 117
Hexachlorocyclohexane, gamma-	16.7	20.13		ug/Kg		121	30 - 158
Heptachlor	16.7	20.69		ug/Kg		124	29 - 163
Heptachlor epoxide	16.7	20.38		ug/Kg		122	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	20.06		ug/Kg		120	13 - 192	4	25
Aldrin			16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-			16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-			16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin			16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I			16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II			16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate			16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin			16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde			16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor			16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide			16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1562		mg/Kg		94	27 - 121
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCS 860-3971/2-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	99.5	99.43		mg/Kg		100	80 - 120
Nitrate as N	99.5	99.56		mg/Kg		100	80 - 120
Fluoride	99.5	100.2		mg/Kg		101	80 - 120
Nitrite as N	49.8	46.63		mg/Kg		94	80 - 120
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120
Sulfate	99.5	99.07		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-3971/3-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	99.5	99.88		mg/Kg		100	80 - 120	0	20
Nitrate as N	99.5	99.51		mg/Kg		100	80 - 120	0	20
Fluoride	99.5	100.3		mg/Kg		101	80 - 120	0	20
Nitrite as N	49.8	46.64		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	149	146.2		mg/Kg		98	80 - 120	0	20
Sulfate	99.5	99.07		mg/Kg		100	80 - 120	0	20

Lab Sample ID: MB 860-39863/1-A
Matrix: Solid
Analysis Batch: 39718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 17:11	02/02/22 09:59	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 17:11	02/02/22 09:59	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

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	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40114/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese	9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead	9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony	9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium	9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium	9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium	2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc	9.80	9.952		mg/Kg		102	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	1.120	*	mg/Kg		112	90 - 110

Lab Sample ID: LCSD 860-42380/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	1.00	1.040		mg/Kg		104	90 - 110	7	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2124		mg/L		94	90 - 110

Lab Sample ID: 860-19938-1 DU — **Client Sample ID: Cell21-Square 146-S-3-4-220127**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 193206

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	204		198.0		mg/L		3	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19938-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A
Matrix: Solid
Analysis Batch: 552706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549553

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125
Cobalt-60	8.07	8.469		1.06		0.145	pCi/g	105	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	5035	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 39864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-39864/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-39864/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-39864/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8260B	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3550C	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	39525
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8270D	39525

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Prep Batch: 566137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137
860-19938-1 MS	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19938-1 MSD	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3550C	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

HPLC/IC

Prep Batch: 3971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	MEHL Prep	
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	MEHL Prep	

Analysis Batch: 39718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Analysis Batch: 39719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/1-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-3971/2-A	Lab Control Sample	Total/NA	Solid	9056A	3971
LCSD 860-3971/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	3971

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/1-A	Method Blank	Total/NA	Solid	300_Prep	

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6860	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6860	565161
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	7471A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	3051A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Soluble	Solid	DI Leach	
860-19938-2	Cell21-Square 41-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Soluble	Solid	9045D	40845
860-19938-2	Cell21-Square 41-S-3-4-220127	Soluble	Solid	9045D	40845

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9012A	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	9066	42380
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19938-2	Cell21-Square 41-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19938-1 DU	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19938-2	Cell21-Square 41-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
860-19938-1 DU	Cell21-Square 146-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Dry and Grind	
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19938-1	Cell21-Square 146-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19938-2	Cell21-Square 41-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 146-S-3-4-220127 **Lab Sample ID: 860-19938-1**
Date Collected: 01/27/22 13:36 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.93 g	5 mL	192708	01/31/22 19:13	RJD	XEN CC
Total/NA	Prep	5035			5.05 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	39864	02/01/22 21:16	EM	XEN STF
Total/NA	Prep	3550C			30.85 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 03:49	T1S	XEN STF
Total/NA	Prep	3546			15.18 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		5			566465	02/14/22 19:10	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 21:57	T1S	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:38	WP	XEN STF
Total/NA	Prep	3550C			30.05 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:47	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.54 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 14:32	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:20	WP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:20	WP	XEN STF
Total/NA	Prep	6860			10.3 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 19:54	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.05 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:50	AGCM	TAL DEN
Total/NA	Prep	3051A			.54 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:54	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:38	SHZ	XEN STF
Total/NA	Prep	9012A			0.5050 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:27	CM1	XEN STF
Soluble	Leach	DI Leach			20.20 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.20 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:42	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			339.2000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552702	02/28/22 11:44	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square 41-S-3-4-220127
Lab Sample ID: 860-19938-2
Date Collected: 01/27/22 14:10
Matrix: Solid
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192708	01/31/22 19:39	RJD	XEN CC
Total/NA	Prep	5035			5.04 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 01:31	A1S	XEN STF
Total/NA	Prep	3550C			30.34 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 04:14	T1S	XEN STF
Total/NA	Prep	3546			15.24 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 19:36	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:17	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 14:54	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:57	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.64 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 14:55	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.92 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39718	02/02/22 03:32	WP	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1	0 mL	1.0 mL	39719	02/02/22 03:32	WP	XEN STF
Total/NA	Prep	6860			10.14 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:15	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.89 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 13:59	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 16:57	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:40	SHZ	XEN STF
Total/NA	Prep	9012A			0.5220 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:28	CM1	XEN STF
Soluble	Leach	DI Leach			20.17 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.17 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:44	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			306.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552700	02/28/22 11:45	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19938-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19938-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19938-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19938-1	Cell21-Square 146-S-3-4-220127	Solid	01/27/22 13:36	01/28/22 10:19
860-19938-2	Cell21-Square 41-S-3-4-220127	Solid	01/27/22 14:10	01/28/22 10:19

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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: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 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, 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	6330B Denver soil jar 4 oz	PFC Denver- plastic 16 oz jar	8270D_AgChem -Penacola 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:																		
Cell21-Square Kb-5-3-4-220127	1/27/22	1334	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell21-Square 41-5-3-4-220127	1/27/22	1410	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
TB				Solid																	

Temp: 3-4 IR ID:HOU-323
C/F:+0.2
Corrected Temp: 36

860-19938 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
Cory Rodriguez	1/27/22 1700	Arcadis			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			Lucia	1/28/22 10:19	
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: 7/18/2023 11:20:27 AM
Released to Imaging: 1/29/2025 3:31:29 PM
2/28/2022
Page 56 of 65

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/16/2022			
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, 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:						
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	1	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 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 out 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 complicance 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] FED EX	1/28/22		FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: 1/31/22 0905	Company ETA JTL
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

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
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	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:

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	X	X	2	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 Central		Solid			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 out 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 complicance 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: 1/28/22	Company	Received by:	Date/Time: 01/29/2022 1013	Company ESTEN
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: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19938-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514	PO #:			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	WO #:			
Email:	Project #: 86002103			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:				

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell21-Square 146-S-3-4-220127 (860-19938-1)	1/27/22	13:36 Central		Solid			X	1	
Cell21-Square 41-S-3-4-220127 (860-19938-2)	1/27/22	14:10 Central		Solid			X	1	

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:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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: Linda	Date/Time: 1/28/22	Company	Received by:	Date/Time: 1-28-22 0:31	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	4.6 IR	

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:26 AM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19938-1

Login Number: 19938 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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?	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").	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: 860-19938-1

Login Number: 19938 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19938-1

Login Number: 19938 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19939-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:04:27 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19939-1

Table of Contents

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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
*	RPD of the LCS and LCSD exceeds the control 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 TICs

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

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
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
*	LCS or LCSD is outside acceptance limits.
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.
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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19939-1

Receipt
The samples were received on 1/28/2022 10:19 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 1.7°C

GC/MS VOA
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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2). 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.

GC Semi VOA
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
Method 8081B: The laboratory control sample (LCS) associated with preparation batch 860-39480 and analytical batch 860-39536 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2) in preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-564725 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell22-Square 132-S-3-4-220127 (860-19939-1) and Cell20-Square 200-S-3-4-220127 (860-19939-2) in preparation batch 280-564725 and 280-565272 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1 (Continued)

Laboratory: Eurofins Houston (Continued)

PFAS

Method PFC: During pH adjustment, the following samples required 2 mL of acid to reach the desired pH: Cell22-Square 132-S-3-4-220127 (860-19939-1), Cell20-Square 200-S-3-4-220127 (860-19939-2), (860-19939-D-2 MS) and (860-19939-D-2 MSD). Most samples take less than 1 mL to reach the desired range preparation batch 280-565681. Method:PFC

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

Metals

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

General Chemistry

Method 9066: The laboratory control sample (LCS) for preparation batch 860-42380 and analytical batch 860-43154 recovered outside control limits for the following analytes: Phenols, Total. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell22-Square 132-S-3-4-220127 (860-19939-1), Cell20-Square 200-S-3-4-220127 (860-19939-2), (LCS 160-549553/2-A), (MB 160-549553/1-A), (860-19990-D-2-B) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 — Lab Sample ID: 860-19939-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.81	J	10.1	3.59	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.2		1.01	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	5.84		5.07	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.427	J	1.01	0.0507	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.6		1.01	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	373		10.1	4.38	mg/Kg	1		9056A	Total/NA
Arsenic	2.24	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	337		3.77	0.327	mg/Kg	10		6020A	Total/NA
Chromium	3.40	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.42	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	2620		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	31.3		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	1.62	J	1.89	0.183	mg/Kg	10		6020A	Total/NA
Uranium	0.256	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	8.38		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.00679	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
Cyanide, Total	31.3	J	59.3	29.4	ug/Kg	1		9012A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	238		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square 200-S-3-4-220127 — Lab Sample ID: 860-19939-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.01		0.988	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.06	J	4.94	0.988	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.422	J	0.988	0.0494	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	5.43		0.988	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	91.5		9.88	4.27	mg/Kg	1		9056A	Total/NA
Arsenic	1.61	J	3.45	0.532	mg/Kg	10		6020A	Total/NA
Barium	37.6		3.45	0.299	mg/Kg	10		6020A	Total/NA
Chromium	2.79	J	3.45	0.234	mg/Kg	10		6020A	Total/NA
Copper	1.42	J	3.45	0.225	mg/Kg	10		6020A	Total/NA
Iron	3350		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	162		1.72	0.219	mg/Kg	10		6020A	Total/NA
Lead	2.31		1.72	0.167	mg/Kg	10		6020A	Total/NA
Antimony	0.108	J	1.72	0.103	mg/Kg	10		6020A	Total/NA
Uranium	0.127	J	0.862	0.0515	mg/Kg	10		6020A	Total/NA
Zinc	7.17		3.45	0.382	mg/Kg	10		6020A	Total/NA
Mercury	0.00830	J	0.0189	0.00363	mg/Kg	1		7471A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	121		10.0	10.0	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. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.641	U	4.39	0.641	ug/Kg			01/31/22 20:04	1
Chloromethane	1.05	U	4.39	1.05	ug/Kg			01/31/22 20:04	1
Vinyl chloride	0.527	U	4.39	0.527	ug/Kg			01/31/22 20:04	1
Bromomethane	0.967	U	4.39	0.967	ug/Kg			01/31/22 20:04	1
Trichlorofluoromethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Acrolein	7.56	U	43.9	7.56	ug/Kg			01/31/22 20:04	1
1,1-Dichloroethene	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
trans-1,2-Dichloroethene	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Methyl tert-butyl ether	0.536	U	4.39	0.536	ug/Kg			01/31/22 20:04	1
1,3-Dichlorobenzene	0.272	U	4.39	0.272	ug/Kg			01/31/22 20:04	1
Methylene Chloride	4.39	U	22.0	4.39	ug/Kg			01/31/22 20:04	1
Acrylonitrile	3.16	U	43.9	3.16	ug/Kg			01/31/22 20:04	1
cis-1,2-Dichloroethene	0.501	U	4.39	0.501	ug/Kg			01/31/22 20:04	1
Carbon tetrachloride	0.448	U	4.39	0.448	ug/Kg			01/31/22 20:04	1
Benzene	0.554	U	4.39	0.554	ug/Kg			01/31/22 20:04	1
1,2-Dichloroethane	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
Trichloroethene	0.246	U	4.39	0.246	ug/Kg			01/31/22 20:04	1
1,1,1-Trichloroethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
1,1-Dichloroethane	0.518	U	4.39	0.518	ug/Kg			01/31/22 20:04	1
1,2-Dichloropropane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
1,4-Dioxane	16.7	U	87.9	16.7	ug/Kg			01/31/22 20:04	1
Chloroform	0.764	U	4.39	0.764	ug/Kg			01/31/22 20:04	1
Bromodichloromethane	0.176	U	4.39	0.176	ug/Kg			01/31/22 20:04	1
1,1-Dichloropropene	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
cis-1,3-Dichloropropene	0.395	U	4.39	0.395	ug/Kg			01/31/22 20:04	1
Toluene	0.791	U	4.39	0.791	ug/Kg			01/31/22 20:04	1
trans-1,3-Dichloropropene	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
1,1,2-Trichloroethane	0.439	U	4.39	0.439	ug/Kg			01/31/22 20:04	1
Tetrachloroethene	0.650	U	4.39	0.650	ug/Kg			01/31/22 20:04	1
1,3-Dichloropropene, Total	0.457	U	4.39	0.457	ug/Kg			01/31/22 20:04	1
1,2-Dibromoethane	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Monochlorobenzene	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Ethylbenzene	0.395	U	4.39	0.395	ug/Kg			01/31/22 20:04	1
Xylenes, Total	0.439	U	8.79	0.439	ug/Kg			01/31/22 20:04	1
Styrene	0.264	U	4.39	0.264	ug/Kg			01/31/22 20:04	1
Tribromomethane	0.448	U	4.39	0.448	ug/Kg			01/31/22 20:04	1
1,1,2,2-Tetrachloroethane	0.334	U	4.39	0.334	ug/Kg			01/31/22 20:04	1
1,4-Dichlorobenzene	0.281	U	4.39	0.281	ug/Kg			01/31/22 20:04	1
1,2-Dichlorobenzene	0.220	U	4.39	0.220	ug/Kg			01/31/22 20:04	1
1,2,4-Trichlorobenzene	0.852	U	4.39	0.852	ug/Kg			01/31/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 152*		*01/31/22 20:04*	*1*
Toluene-d8 (Surr)	*95*		*65 - 139*		*01/31/22 20:04*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 136*		*01/31/22 20:04*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*01/31/22 20:04*	*1*

Method: 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		02/01/22 11:08	02/03/22 02:59	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127
Lab Sample ID: 860-19939-1
Date Collected: 01/27/22 09:46
Matrix: Solid
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*	*02/01/22 11:08*	*02/03/22 02:59*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	65.8	12.0	ug/Kg		02/10/22 13:33	02/14/22 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*87*		*30 - 164*	*02/10/22 13:33*	*02/14/22 20:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	173	U	1660	173	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
1,2,4,5-Tetrachlorobenzene	164	U	1660	164	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
1-Methylnaphthalene	266	U	1660	266	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
bis (2-chloroisopropyl) ether	177	U	1660	177	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4,5-Trichlorophenol	190	U	1660	190	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4,6-Trichlorophenol	157	U	1660	157	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4-Dinitrotoluene	127	U	1660	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dinitrophenols	242	U	3330	242	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,4-Dichlorophenol	174	U	1660	174	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2,6-Dinitrotoluene	232	U	1660	232	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dichlorobenzidine, 3,3'-	154	U	3330	154	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
4,6-Dinitro-2-methylphenol	127	U	3330	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Acenaphthene	155	U	1660	155	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Anthracene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Acenaphthylene	147	U	1660	147	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[a]anthracene	140	U	1660	140	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[b]fluoranthene	125	U	1660	125	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[k]fluoranthene	193	U	1660	193	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[g,h,i]perylene	153	U	1660	153	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzo[a]pyrene	172	U	1660	172	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Di (2-ethylhexyl)phthalate	1660	U	3330	1660	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Bis(2-chloroethyl)ether	152	U	1660	152	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Chrysene	165	U	1660	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dibutylphthalate	160	U	1660	160	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dibenz(a,h)anthracene	127	U	1660	127	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Diethyl phthalate	153	U	1660	153	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Dimethyl phthalate	158	U	1660	158	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Fluoranthene	147	U	1660	147	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Fluorene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorobenzene	162	U	1660	162	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorobutadiene	138	U	1660	138	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachlorocyclopentadiene	152	U	1660	152	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Hexachloroethane	172	U	1660	172	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Indeno[1,2,3-cd]pyrene	134	U	1660	134	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Isophorone	145	U	1660	145	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodi-n-butylamine	252	U	1660	252	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodiethylamine	219	U	1660	219	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodiphenylamine	186	U	1660	186	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosopyrrolidine	141	U	1660	141	ug/Kg		01/31/22 07:24	02/02/22 04:38	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	159	U	1660	159	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Pentachlorophenol	121	U	3330	121	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Phenanthrene	165	U	1660	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Pyrene	146	U	1660	146	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Naphthalene	156	U	1660	156	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
2-Methylnaphthalene	451	U	1660	451	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Nitrobenzene	185	U	1660	185	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Benzidine	121	U	3330	121	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Phenol	0.149	U	3.33	0.149	mg/Kg		01/31/22 07:24	02/02/22 04:38	10
N-Nitrosodimethylamine	167	U	1660	167	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Atrazine	165	U *	3330	165	ug/Kg		01/31/22 07:24	02/02/22 04:38	10
Thiophene, tetrahydro-, 1,1-dioxide	3320	U	3330	3320	ug/Kg		01/31/22 07:24	02/02/22 04:38	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.65*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 04:38*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*30 - 115*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
2-Fluorophenol	*89*		*25 - 121*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
2,4,6-Tribromophenol	*113*		*19 - 122*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
Nitrobenzene-d5	*76*		*23 - 129*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
Phenol-d5 (Surr)	*86*		*24 - 113*	*01/31/22 07:24*	*02/02/22 04:38*	*10*
p-Terphenyl-d14 (Surr)	*102*		*18 - 137*	*01/31/22 07:24*	*02/02/22 04:38*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		02/02/22 10:33	02/02/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:37*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:37*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endrin	0.290	U	0.832	0.290	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 12:04	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 12:04	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*35 - 135*	*01/29/22 11:03*	*01/31/22 12:04*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*25 - 143*	*01/29/22 11:03*	*01/31/22 12:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:09	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:09*	*1*

Method: 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	0.0921	0.0209	mg/Kg		02/05/22 11:25	02/10/22 15:18	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0396	U	0.184	0.0396	mg/Kg		02/05/22 11:25	02/10/22 15:18	1
2,4,6-Trinitrotoluene	0.0283	U	0.0921	0.0283	mg/Kg		02/05/22 11:25	02/10/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*02/05/22 11:25*	*02/10/22 15:18*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.81**	**J**	10.1	3.59	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrate as N	**10.2**		1.01	0.110	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Fluoride	**5.84**		5.07	1.01	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrite as N	**0.427**	**J**	1.01	0.0507	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Nitrate Nitrite as N	**10.6**		1.01	0.110	mg/Kg		02/01/22 20:42	02/02/22 23:27	1
Sulfate	**373**		10.1	4.38	mg/Kg		02/01/22 20:42	02/02/22 23:27	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0822	U	0.499	0.0822	ug/Kg		02/03/22 17:49	02/08/22 20:20	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.215	U	0.748	0.215	ug/Kg		02/10/22 11:04	02/16/22 14:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.262	U	0.748	0.262	ug/Kg		02/10/22 11:04	02/16/22 14:17	1
Perfluorooctanesulfonic acid (PFOS)	0.131	U	0.748	0.131	ug/Kg		02/10/22 11:04	02/16/22 14:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/10/22 11:04	02/16/22 14:17	1
13C8 PFOS	105		70 - 130	02/10/22 11:04	02/16/22 14:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Arsenic	**2.24**	**J**	3.77	0.582	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Barium	**337**		3.77	0.327	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Chromium	**3.40**	**J**	3.77	0.256	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Copper	**1.42**	**J**	3.77	0.246	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Iron	**2620**		18.9	2.21	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Manganese	**31.3**		1.89	0.240	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Lead	**1.62**	**J**	1.89	0.183	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Antimony	0.112	U	1.89	0.112	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Selenium	0.468	U	1.89	0.468	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Thallium	0.225	U	1.89	0.225	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Uranium	**0.256**	**J**	0.943	0.0564	mg/Kg		02/03/22 09:33	02/03/22 17:01	10
Zinc	**8.38**		3.77	0.418	mg/Kg		02/03/22 09:33	02/03/22 17:01	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00679**	**J**	0.0189	0.00363	mg/Kg		02/01/22 08:30	02/01/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.3**	**J**	59.3	29.4	ug/Kg		02/09/22 15:50	02/09/22 17:30	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:31	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**238**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**0.473**		0.113	0.123	1.00	0.0722	pCi/g	02/07/22 10:12	02/28/22 11:47	1
Radium-228	0.108	U	0.143	0.143		0.207	pCi/g	02/07/22 10:12	02/28/22 11:47	1
Combined Radium 226 + 228	**0.581**		0.182	0.189		0.207	pCi/g	02/07/22 10:12	02/28/22 11:47	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			01/31/22 20:30	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			01/31/22 20:30	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			01/31/22 20:30	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			01/31/22 20:30	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			01/31/22 20:30	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			01/31/22 20:30	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			01/31/22 20:30	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			01/31/22 20:30	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			01/31/22 20:30	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			01/31/22 20:30	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			01/31/22 20:30	1
Benzene	0.618	U	4.90	0.618	ug/Kg			01/31/22 20:30	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			01/31/22 20:30	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			01/31/22 20:30	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			01/31/22 20:30	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			01/31/22 20:30	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			01/31/22 20:30	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			01/31/22 20:30	1
Toluene	0.882	U	4.90	0.882	ug/Kg			01/31/22 20:30	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			01/31/22 20:30	1
Tetrachloroethene	0.725	U	4.90	0.725	ug/Kg			01/31/22 20:30	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			01/31/22 20:30	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			01/31/22 20:30	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			01/31/22 20:30	1
Styrene	0.294	U	4.90	0.294	ug/Kg			01/31/22 20:30	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			01/31/22 20:30	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			01/31/22 20:30	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			01/31/22 20:30	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			01/31/22 20:30	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			01/31/22 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*01/31/22 20:30*	*1*
Toluene-d8 (Surr)	*92*		*65 - 139*		*01/31/22 20:30*	*1*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*01/31/22 20:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 20:30*	*1*

Method: 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		02/01/22 11:08	02/03/22 03:20	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*	*02/01/22 11:08*	*02/03/22 03:20*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		02/10/22 13:33	02/14/22 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*97*		*30 - 164*	*02/10/22 13:33*	*02/14/22 21:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1630	170	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
1,2,4,5-Tetrachlorobenzene	161	U	1630	161	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
1-Methylnaphthalene	261	U	1630	261	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
bis (2-chloroisopropyl) ether	174	U	1630	174	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4,5-Trichlorophenol	186	U	1630	186	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4,6-Trichlorophenol	154	U	1630	154	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4-Dinitrotoluene	125	U	1630	125	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dinitrophenols	237	U	3260	237	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,4-Dichlorophenol	171	U	1630	171	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2,6-Dinitrotoluene	228	U	1630	228	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dichlorobenzidine, 3,3'-	151	U	3260	151	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
4,6-Dinitro-2-methylphenol	124	U	3260	124	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Acenaphthene	152	U	1630	152	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Anthracene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Acenaphthylene	144	U	1630	144	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[a]anthracene	138	U	1630	138	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[b]fluoranthene	123	U	1630	123	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[k]fluoranthene	189	U	1630	189	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[g,h,i]perylene	150	U	1630	150	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzo[a]pyrene	168	U	1630	168	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Di (2-ethylhexyl)phthalate	1630	U	3260	1630	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Bis(2-chloroethyl)ether	149	U	1630	149	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Chrysene	162	U	1630	162	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dibutylphthalate	157	U	1630	157	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dibenz(a,h)anthracene	124	U	1630	124	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Diethyl phthalate	150	U	1630	150	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Dimethyl phthalate	155	U	1630	155	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Fluoranthene	144	U	1630	144	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Fluorene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorobenzene	159	U	1630	159	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorobutadiene	135	U	1630	135	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachlorocyclopentadiene	149	U	1630	149	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Hexachloroethane	169	U	1630	169	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Indeno[1,2,3-cd]pyrene	131	U	1630	131	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Isophorone	142	U	1630	142	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodi-n-butylamine	247	U	1630	247	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodiethylamine	214	U	1630	214	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodiphenylamine	182	U	1630	182	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosopyrrolidine	138	U	1630	138	ug/Kg		01/31/22 07:24	02/02/22 05:02	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	155	U	1630	155	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Pentachlorophenol	119	U	3260	119	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Phenanthrene	162	U	1630	162	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Pyrene	143	U	1630	143	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Naphthalene	153	U	1630	153	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
2-Methylnaphthalene	442	U	1630	442	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Nitrobenzene	181	U	1630	181	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Benzidine	118	U	3260	118	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Phenol	0.146	U	3.26	0.146	mg/Kg		01/31/22 07:24	02/02/22 05:02	10
N-Nitrosodimethylamine	164	U	1630	164	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Atrazine	161	U *	3260	161	ug/Kg		01/31/22 07:24	02/02/22 05:02	10
Thiophene, tetrahydro-, 1,1-dioxide	3260	U	3260	3260	ug/Kg		01/31/22 07:24	02/02/22 05:02	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.52*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 05:02*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*30 - 115*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
2-Fluorophenol	*96*		*25 - 121*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
2,4,6-Tribromophenol	*111*		*19 - 122*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
Nitrobenzene-d5	*82*		*23 - 129*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
Phenol-d5 (Surr)	*91*		*24 - 113*	*01/31/22 07:24*	*02/02/22 05:02*	*10*
p-Terphenyl-d14 (Surr)	*105*		*18 - 137*	*01/31/22 07:24*	*02/02/22 05:02*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/02/22 10:33	02/02/22 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:57*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/02/22 10:33*	*02/02/22 22:57*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endrin	0.291	U	0.832	0.291	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Endrin aldehyde	0.247	U *	0.832	0.247	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		01/29/22 11:03	01/31/22 12:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.832	0.562	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		01/29/22 11:03	01/31/22 12:20	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		01/29/22 11:03	01/31/22 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*35 - 135*	*01/29/22 11:03*	*01/31/22 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*25 - 143*	*01/29/22 11:03*	*01/31/22 12:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:18	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		01/29/22 11:03	01/31/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*01/29/22 11:03*	*01/31/22 19:18*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 142*	*01/29/22 11:03*	*01/31/22 19:18*	*1*

Method: 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	0.0924	0.0210	mg/Kg		02/05/22 11:25	02/10/22 15:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		02/05/22 11:25	02/10/22 15:41	1
2,4,6-Trinitrotoluene	0.0284	U	0.0924	0.0284	mg/Kg		02/05/22 11:25	02/10/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*02/05/22 11:25*	*02/10/22 15:41*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.50	U	9.88	3.50	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrate as N	**5.01**		0.988	0.107	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Fluoride	**2.06**	**J**	4.94	0.988	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrite as N	**0.422**	**J**	0.988	0.0494	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Nitrate Nitrite as N	**5.43**		0.988	0.107	mg/Kg		02/01/22 20:43	02/03/22 01:02	1
Sulfate	**91.5**		9.88	4.27	mg/Kg		02/01/22 20:43	02/03/22 01:02	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0784	U	0.476	0.0784	ug/Kg		02/03/22 17:49	02/08/22 20:25	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U	0.742	0.213	ug/Kg		02/10/22 11:04	02/16/22 14:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	0.742	0.260	ug/Kg		02/10/22 11:04	02/16/22 14:25	1
Perfluorooctanesulfonic acid (PFOS)	0.130	U	0.742	0.130	ug/Kg		02/10/22 11:04	02/16/22 14:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*105*		*57 - 153*	*02/10/22 11:04*	*02/16/22 14:25*	*1*
13C8 PFOS	*108*		*70 - 130*	*02/10/22 11:04*	*02/16/22 14:25*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.137	U	1.72	0.137	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Arsenic	**1.61**	**J**	3.45	0.532	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Barium	**37.6**		3.45	0.299	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Beryllium	0.160	U	1.72	0.160	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Cadmium	0.100	U	1.72	0.100	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Chromium	**2.79**	**J**	3.45	0.234	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Copper	**1.42**	**J**	3.45	0.225	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Iron	**3350**		17.2	2.02	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Manganese	**162**		1.72	0.219	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Lead	**2.31**		1.72	0.167	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Antimony	**0.108**	**J**	1.72	0.103	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Selenium	0.428	U	1.72	0.428	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Thallium	0.206	U	1.72	0.206	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Uranium	**0.127**	**J**	0.862	0.0515	mg/Kg		02/03/22 09:33	02/03/22 17:04	10
Zinc	**7.17**		3.45	0.382	mg/Kg		02/03/22 09:33	02/03/22 17:04	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00830**	**J**	0.0189	0.00363	mg/Kg		02/01/22 08:30	02/01/22 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	30.2	U	60.8	30.2	ug/Kg		02/09/22 15:50	02/09/22 17:31	1
Phenols, Total	0.0600	U *	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:39	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			02/09/22 14:16	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**121**		10.0	10.0	mg/L			02/15/22 15:10	1

Method: 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	**1.16**		0.223	0.262	1.00	0.137	pCi/g	02/07/22 10:12	02/28/22 11:46	1
Radium-228	0.174	U	0.264	0.265		0.409	pCi/g	02/07/22 10:12	02/28/22 11:46	1
Combined Radium 226 + 228	**1.34**		0.346	0.373		0.409	pCi/g	02/07/22 10:12	02/28/22 11:46	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID	(65-152)	(65-139)	(50-136)	(61-142)
860-19939-1	Cell22-Square 132-S-3-4-220127	98	95	95	113
860-19939-2	Cell20-Square 200-S-3-4-220127	101	92	97	109
LCS 560-192708/3	Lab Control Sample	97	95	97	116
MB 560-192708/7	Method Blank	93	94	94	109

Surrogate Legend

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

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	DBFM	BFB
Lab Sample ID	Client Sample ID				
LCSD 560-192708/4	Lab Control Sample Dup				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (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)
860-19939-1	Cell22-Square 132-S-3-4-220127	103
860-19939-2	Cell20-Square 200-S-3-4-220127	105
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19939-1	Cell22-Square 132-S-3-4-220127	87
860-19939-2	Cell20-Square 200-S-3-4-220127	97
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Surrogate Legend
TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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)
860-19939-1	Cell22-Square 132-S-3-4-220127	90	89	113	76	86	102
860-19939-2	Cell20-Square 200-S-3-4-220127	90	96	111	82	91	105
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
860-19939-1	Cell22-Square 132-S-3-4-220127	88	78
860-19939-2	Cell20-Square 200-S-3-4-220127	88	78
LCS 860-39790/2-A - RA	Lab Control Sample	107	100
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	110	103
MB 860-39790/1-A - RA	Method Blank	105	97

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (35-135)	DCB1 (25-143)
860-19939-1	Cell22-Square 132-S-3-4-220127	81	93
860-19939-2	Cell20-Square 200-S-3-4-220127	83	94
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	63	95
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	83	96
LCS 860-39480/2-A	Lab Control Sample	101	123
LCSD 860-39480/3-A	Lab Control Sample Dup	100	112
MB 860-39480/1-A	Method Blank	96	108

Surrogate Legend
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

DCB = DCB Decachlorobiphenyl (Surr)

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)								
860-19939-1	Cell22-Square 132-S-3-4-220127	67	80								
860-19939-2	Cell20-Square 200-S-3-4-220127	66	83								
LCS 860-39480/4-A	Lab Control Sample	84	83								
LCSD 860-39480/5-A	Lab Control Sample Dup	79	80								
MB 860-39480/1-A	Method Blank	75	81								

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)									
860-19939-1	Cell22-Square 132-S-3-4-220127	103									
860-19939-2	Cell20-Square 200-S-3-4-220127	107									
LCS 280-565272/2-A	Lab Control Sample	99									
MB 280-565272/1-A	Method Blank	105									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19939-1	Cell22-Square 132-S-3-4-220127	103	105								
860-19939-2	Cell20-Square 200-S-3-4-220127	105	108								
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	102	109								
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	103	110								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565681/2-A	Lab Control Sample	104	108								
MB 280-565681/1-A	Method Blank	104	107								

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: 860-19939-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192708/7
Matrix: Solid
Analysis Batch: 192708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			01/31/22 17:31	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			01/31/22 17:31	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			01/31/22 17:31	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			01/31/22 17:31	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			01/31/22 17:31	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			01/31/22 17:31	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			01/31/22 17:31	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			01/31/22 17:31	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			01/31/22 17:31	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
Benzene	0.630	U	5.00	0.630	ug/Kg			01/31/22 17:31	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			01/31/22 17:31	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			01/31/22 17:31	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			01/31/22 17:31	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			01/31/22 17:31	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			01/31/22 17:31	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Toluene	0.900	U	5.00	0.900	ug/Kg			01/31/22 17:31	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			01/31/22 17:31	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			01/31/22 17:31	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			01/31/22 17:31	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			01/31/22 17:31	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			01/31/22 17:31	1
Styrene	0.300	U	5.00	0.300	ug/Kg			01/31/22 17:31	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			01/31/22 17:31	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			01/31/22 17:31	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			01/31/22 17:31	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			01/31/22 17:31	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			01/31/22 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 152*		*01/31/22 17:31*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*01/31/22 17:31*	*1*
Dibromofluoromethane (Surr)	*94*		*50 - 136*		*01/31/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*01/31/22 17:31*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

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

Lab Sample ID: LCS 560-192708/3
Matrix: Solid
Analysis Batch: 192708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	34.36		ug/Kg		86	13 - 130
Chloromethane	40.0	27.10		ug/Kg		68	61 - 137
Vinyl chloride	40.0	34.62		ug/Kg		87	65 - 139
Bromomethane	40.0	33.04		ug/Kg		83	57 - 155
Trichlorofluoromethane	40.0	33.86		ug/Kg		85	68 - 146
Acrolein	395	400.4		ug/Kg		101	20 - 150
1,1-Dichloroethene	40.0	36.01		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	40.0	36.31		ug/Kg		91	70 - 132
Methyl tert-butyl ether	40.0	37.80		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	40.0	35.81		ug/Kg		90	70 - 130
Methylene Chloride	40.0	35.93		ug/Kg		90	61 - 150
Acrylonitrile	400	383.7		ug/Kg		96	66 - 137
cis-1,2-Dichloroethene	40.0	37.19		ug/Kg		93	70 - 130
Carbon tetrachloride	40.0	32.72		ug/Kg		82	70 - 136
Benzene	40.0	37.15		ug/Kg		93	70 - 131
1,2-Dichloroethane	40.0	33.42		ug/Kg		84	70 - 130
Trichloroethene	40.0	34.77		ug/Kg		87	70 - 130
1,1,1-Trichloroethane	40.0	34.21		ug/Kg		86	70 - 132
1,1-Dichloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,2-Dichloropropane	40.0	37.59		ug/Kg		94	70 - 130
1,4-Dioxane	800	826.6		ug/Kg		103	10 - 150
Chloroform	40.0	34.91		ug/Kg		87	70 - 130
Bromodichloromethane	40.0	36.92		ug/Kg		92	70 - 130
1,1-Dichloropropene	40.0	37.35		ug/Kg		93	70 - 130
cis-1,3-Dichloropropene	40.0	34.37		ug/Kg		86	70 - 130
Toluene	40.0	33.36		ug/Kg		83	70 - 130
trans-1,3-Dichloropropene	40.0	36.54		ug/Kg		91	70 - 131
1,1,2-Trichloroethane	40.0	35.23		ug/Kg		88	70 - 130
Tetrachloroethene	40.0	29.92		ug/Kg		75	70 - 130
1,3-Dichloropropene, Total	80.0	70.91		ug/Kg		89	
1,2-Dibromoethane	40.0	34.45		ug/Kg		86	70 - 130
Monochlorobenzene	40.0	32.86		ug/Kg		82	70 - 130
Ethylbenzene	40.0	36.53		ug/Kg		91	70 - 130
Xylenes, Total	80.0	76.14		ug/Kg		95	70 - 130
Styrene	40.0	37.34		ug/Kg		93	70 - 130
Tribromomethane	40.0	30.61		ug/Kg		77	59 - 137
1,1,2,2-Tetrachloroethane	40.0	40.95		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	40.0	34.59		ug/Kg		86	70 - 130
1,2-Dichlorobenzene	40.0	36.35		ug/Kg		91	70 - 130
1,2,4-Trichlorobenzene	40.0	37.86		ug/Kg		95	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 560-192708/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 192708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			40.0	33.29		ug/Kg					
Chloromethane			40.0	28.33		ug/Kg					
Vinyl chloride			40.0	32.66		ug/Kg					
Bromomethane			40.0	31.81		ug/Kg					
Trichlorofluoromethane			40.0	32.59		ug/Kg					
Acrolein			395	377.9		ug/Kg					
1,1-Dichloroethene			40.0	34.97		ug/Kg					
trans-1,2-Dichloroethene			40.0	35.70		ug/Kg					
Methyl tert-butyl ether			40.0	37.35		ug/Kg					
1,3-Dichlorobenzene			40.0	34.31		ug/Kg					
Methylene Chloride			40.0	34.74		ug/Kg					
Acrylonitrile			400	369.0		ug/Kg					
cis-1,2-Dichloroethene			40.0	36.26		ug/Kg					
Carbon tetrachloride			40.0	32.07		ug/Kg					
Benzene			40.0	36.36		ug/Kg					
1,2-Dichloroethane			40.0	32.07		ug/Kg					
Trichloroethene			40.0	33.88		ug/Kg					
1,1,1-Trichloroethane			40.0	32.99		ug/Kg					
1,1-Dichloroethane			40.0	35.18		ug/Kg					
1,2-Dichloropropane			40.0	36.68		ug/Kg					
1,4-Dioxane			800	795.1		ug/Kg					
Chloroform			40.0	34.02		ug/Kg					
Bromodichloromethane			40.0	35.77		ug/Kg					
1,1-Dichloropropene			40.0	36.69		ug/Kg					
cis-1,3-Dichloropropene			40.0	33.41		ug/Kg					
Toluene			40.0	32.50		ug/Kg					
trans-1,3-Dichloropropene			40.0	35.22		ug/Kg					
1,1,2-Trichloroethane			40.0	33.98		ug/Kg					
Tetrachloroethene			40.0	28.74		ug/Kg					
1,3-Dichloropropene, Total			80.0	68.63		ug/Kg					
1,2-Dibromoethane			40.0	33.01		ug/Kg					
Monochlorobenzene			40.0	31.64		ug/Kg					
Ethylbenzene			40.0	35.09		ug/Kg					
Xylenes, Total			80.0	73.57		ug/Kg					
Styrene			40.0	36.06		ug/Kg					
Tribromomethane			40.0	29.33		ug/Kg					
1,1,2,2-Tetrachloroethane			40.0	38.63		ug/Kg					
1,4-Dichlorobenzene			40.0	33.25		ug/Kg					
1,2-Dichlorobenzene			40.0	34.68		ug/Kg					
1,2,4-Trichlorobenzene			40.0	35.73		ug/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)			
Toluene-d8 (Surr)			
Dibromofluoromethane (Surr)			
4-Bromofluorobenzene (Surr)			

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	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*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

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

Lab Sample ID: MB 860-39790/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
Diesel Range Organics (Over C10-C28) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1
OII Range Organics (Over C28-C36) - RA	21.1	U	50.0	21.1	mg/Kg		02/01/22 12:48	02/02/22 17:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA	105		65 - 130	02/01/22 12:48	02/02/22 17:41	1
o-Terphenyl (Surr) - RA	97		65 - 130	02/01/22 12:48	02/02/22 17:41	1

Lab Sample ID: LCS 860-39790/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1024		mg/Kg		103	70 - 135		
Diesel Range Organics (Over C10-C28) - RA			996	974.9		mg/Kg		98	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane - RA	107		65 - 130
o-Terphenyl (Surr) - RA	100		65 - 130

Lab Sample ID: LCSD 860-39790/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39915 **Prep Batch: 39790**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10 - RA			994	1028		mg/Kg		103	70 - 135	0	35
Diesel Range Organics (Over C10-C28) - RA			996	1002		mg/Kg		101	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane - RA	110		65 - 130
o-Terphenyl (Surr) - RA	103		65 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-39480/1-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin	0.291	U	0.833	0.291	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		01/29/22 11:03	01/31/22 10:45	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		01/29/22 11:03	01/31/22 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*35 - 135*	*01/29/22 11:03*	*01/31/22 10:45*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*25 - 143*	*01/29/22 11:03*	*01/31/22 10:45*	*1*

Lab Sample ID: LCS 860-39480/2-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	16.7	20.83		ug/Kg		125	13 - 192
Aldrin	16.7	20.27		ug/Kg		122	30 - 152
Hexachlorocyclohexane, alpha-	16.7	19.40		ug/Kg		116	29 - 160
Hexachlorocyclohexane, beta-	16.7	21.37		ug/Kg		128	30 - 155
Hexachlorocyclohexane, delta-	16.7	19.40		ug/Kg		116	20 - 161
Dieldrin	16.7	21.61		ug/Kg		130	33 - 153
Endosulfan I	16.7	20.94		ug/Kg		126	30 - 151
Endosulfan II	16.7	19.27		ug/Kg		116	27 - 153
Endosulfan sulfate	16.7	20.37		ug/Kg		122	15 - 170
Endrin	16.7	21.93		ug/Kg		132	25 - 162
Endrin aldehyde	16.7	20.13	*	ug/Kg		121	49 - 117
Hexachlorocyclohexane, gamma-	16.7	20.13		ug/Kg		121	30 - 158
Heptachlor	16.7	20.69		ug/Kg		124	29 - 163
Heptachlor epoxide	16.7	20.38		ug/Kg		122	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*123*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-39480/3-A
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39480

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	20.06		ug/Kg		120	13 - 192	4	25
Aldrin			16.7	20.31		ug/Kg		122	30 - 152	0	25
Hexachlorocyclohexane, alpha-			16.7	19.67		ug/Kg		118	29 - 160	1	25
Hexachlorocyclohexane, beta-			16.7	20.97		ug/Kg		126	30 - 155	2	25
Hexachlorocyclohexane, delta-			16.7	19.02		ug/Kg		114	20 - 161	2	25
Dieldrin			16.7	21.09		ug/Kg		127	33 - 153	2	25
Endosulfan I			16.7	20.45		ug/Kg		123	30 - 151	2	25
Endosulfan II			16.7	18.59		ug/Kg		112	27 - 153	4	25
Endosulfan sulfate			16.7	19.57		ug/Kg		117	15 - 170	4	25
Endrin			16.7	21.16		ug/Kg		127	25 - 162	4	25
Endrin aldehyde			16.7	19.32		ug/Kg		116	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	20.03		ug/Kg		120	30 - 158	0	25
Heptachlor			16.7	20.86		ug/Kg		125	29 - 163	1	25
Heptachlor epoxide			16.7	19.96		ug/Kg		120	30 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*112*		*25 - 143*

Lab Sample ID: 860-19939-2 MS
Matrix: Solid
Analysis Batch: 39536

Client Sample ID: Cell20-Square 200-S-3-4-220127
Prep Type: Total/NA
Prep Batch: 39480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.254	U	16.7	18.00		ug/Kg		108	13 - 192
Aldrin	0.362	U	16.7	15.65		ug/Kg		94	30 - 152
Hexachlorocyclohexane, alpha-	0.679	U	16.7	14.00		ug/Kg		84	29 - 160
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.00		ug/Kg		108	30 - 155
Hexachlorocyclohexane, delta-	0.832	U	16.7	16.02		ug/Kg		96	20 - 161
Dieldrin	0.169	U	16.7	18.45		ug/Kg		111	33 - 153
Endosulfan I	0.202	U	16.7	17.54		ug/Kg		105	30 - 151
Endosulfan II	0.372	U	16.7	16.62		ug/Kg		100	27 - 153
Endosulfan sulfate	0.276	U	16.7	17.25		ug/Kg		103	15 - 170
Endrin	0.291	U	16.7	19.72		ug/Kg		118	25 - 162
Endrin aldehyde	0.247	U *	16.7	16.86		ug/Kg		101	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.7	15.19		ug/Kg		91	30 - 158
Heptachlor	0.562	U	16.7	15.71		ug/Kg		94	29 - 163
Heptachlor epoxide	0.245	U	16.7	17.05		ug/Kg		102	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*95*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39536 **Prep Batch: 39480**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.254	U	16.7	17.37		ug/Kg		104	13 - 192	4	25
Aldrin	0.362	U	16.7	16.76		ug/Kg		101	30 - 152	7	25
Hexachlorocyclohexane, alpha-	0.679	U	16.7	16.46		ug/Kg		99	29 - 160	16	25
Hexachlorocyclohexane, beta-	0.473	U	16.7	18.06		ug/Kg		108	30 - 155	0	25
Hexachlorocyclohexane, delta-	0.832	U	16.7	16.36		ug/Kg		98	20 - 161	2	25
Dieldrin	0.169	U	16.7	18.26		ug/Kg		110	33 - 153	1	25
Endosulfan I	0.202	U	16.7	17.49		ug/Kg		105	30 - 151	0	25
Endosulfan II	0.372	U	16.7	16.34		ug/Kg		98	27 - 153	2	25
Endosulfan sulfate	0.276	U	16.7	16.95		ug/Kg		102	15 - 170	2	25
Endrin	0.291	U	16.7	19.25		ug/Kg		116	25 - 162	2	25
Endrin aldehyde	0.247	U *	16.7	16.39		ug/Kg		98	49 - 117	3	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	16.93		ug/Kg		102	30 - 158	11	25
Heptachlor	0.562	U	16.7	17.56		ug/Kg		105	29 - 163	11	25
Heptachlor epoxide	0.245	U	16.7	17.33		ug/Kg		104	30 - 150	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*96*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-39480/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		01/29/22 11:03	01/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 140*	*01/29/22 11:03*	*01/31/22 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*01/29/22 11:03*	*01/31/22 17:36*	*1*

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1562		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-39480/4-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Lab Sample ID: LCSD 860-39480/5-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39558 **Prep Batch: 39480**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1508		mg/Kg		90	27 - 121	4	20
Aroclor 1260			0.167	0.1483		mg/Kg		89	27 - 139	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565272/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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		02/05/22 11:25	02/10/22 06:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/05/22 11:25	02/10/22 06:07	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/05/22 11:25	02/10/22 06:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	105		83 - 122	02/05/22 11:25	02/10/22 06:07	1

Lab Sample ID: LCS 280-565272/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565637 **Prep Batch: 565272**

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	0.9312		mg/Kg		93	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9739		mg/Kg		97	80 - 124
2,4,6-Trinitrotoluene			1.00	0.9953		mg/Kg		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	99		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40032
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40032
Prep Batch: 39863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.2		mg/Kg		100	80 - 120
Nitrate as N	100	100.1		mg/Kg		100	80 - 120
Fluoride	100	102.1		mg/Kg		102	80 - 120
Nitrite as N	50.0	47.27		mg/Kg		95	80 - 120
Nitrate Nitrite as N	150	147.4		mg/Kg		98	80 - 120
Sulfate	100	99.86		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-39863/34-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40032
Prep Batch: 39863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N	100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride	100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate	100	99.95		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 860-19939-1 MS
Client Sample ID: Cell22-Square 132-S-3-4-220127
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40032
Prep Batch: 39863

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.81	J	99.6	111.4		mg/Kg		104	80 - 120
Nitrate as N	10.2		99.6	110.8		mg/Kg		101	80 - 120
Fluoride	5.84		99.6	108.3		mg/Kg		103	80 - 120
Nitrite as N	0.427	J	24.9	28.15		mg/Kg		111	80 - 120
Nitrate Nitrite as N	10.6		125	139.0		mg/Kg		103	80 - 120
Sulfate	373		99.6	463.7		mg/Kg		91	80 - 120

Lab Sample ID: 860-19939-1 MSD
Client Sample ID: Cell22-Square 132-S-3-4-220127
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40032
Prep Batch: 39863

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.81	J	99.8	112.0		mg/Kg		104	80 - 120	1	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-19939-1 MSD **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40033 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.2		99.8	111.1		mg/Kg		101	80 - 120	0	15
Fluoride	5.84		99.8	108.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	0.427	J	25.0	28.20		mg/Kg		111	80 - 120	0	15
Nitrate Nitrite as N	10.6		125	139.3		mg/Kg		103	80 - 120	0	15
Sulfate	373		99.8	464.7		mg/Kg		92	80 - 120	0	20

Lab Sample ID: 860-19939-2 MS **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.50	U	99.6	104.6		mg/Kg		105	80 - 120
Nitrate as N	5.01		99.6	106.1		mg/Kg		101	80 - 120
Fluoride	2.06	J	99.6	105.9		mg/Kg		104	80 - 120
Nitrite as N	0.422	J	24.9	27.33		mg/Kg		108	80 - 120
Nitrate Nitrite as N	5.43		125	133.4		mg/Kg		103	80 - 120
Sulfate	91.5		99.6	194.6		mg/Kg		104	80 - 120

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.50	U	99.8	105.0		mg/Kg		105	80 - 120	0	20
Nitrate as N	5.01		99.8	106.3		mg/Kg		102	80 - 120	0	15
Fluoride	2.06	J	99.8	106.0		mg/Kg		104	80 - 120	0	20
Nitrite as N	0.422	J	25.0	27.39		mg/Kg		108	80 - 120	0	15
Nitrate Nitrite as N	5.43		125	133.7		mg/Kg		103	80 - 120	0	15
Sulfate	91.5		99.8	194.9		mg/Kg		104	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565161/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565540 **Prep Batch: 565161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/03/22 17:49	02/08/22 18:01	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565161/2-A
Matrix: Solid
Analysis Batch: 565540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5047		ug/Kg		101	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565681/1-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/10/22 11:04	02/16/22 11:21	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/10/22 11:04	02/16/22 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/10/22 11:04*	*02/16/22 11:21*	*1*
13C8 PFOS	*107*		*70 - 130*	*02/10/22 11:04*	*02/16/22 11:21*	*1*

Lab Sample ID: LCS 280-565681/2-A
Matrix: Solid
Analysis Batch: 566232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	20.31		ug/Kg		102	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.45		ug/Kg		101	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.74		ug/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-19939-2 MS **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.213	U	18.9	18.62		ug/Kg		99	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	17.2	16.11		ug/Kg		94	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.130	U	17.5	17.24		ug/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*102*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

Lab Sample ID: 860-19939-2 MSD **Client Sample ID: Cell20-Square 200-S-3-4-220127**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566232 **Prep Batch: 565681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.213	U	18.6	18.23		ug/Kg		98	70 - 131	2	30
Perfluorohexanesulfonic acid (PFHxS)	0.260	U	16.9	15.53		ug/Kg		92	70 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)	0.130	U	17.2	16.44		ug/Kg		95	70 - 130	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*110*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40114/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40171 **Prep Batch: 40114**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/03/22 09:32	02/03/22 13:00	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/03/22 09:32	02/03/22 13:00	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-40114/2-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40114

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	9.424		mg/Kg		94	80 - 120
Barium	10.0	9.503		mg/Kg		95	80 - 120
Beryllium	10.0	9.650		mg/Kg		96	80 - 120
Cadmium	10.0	9.511		mg/Kg		95	80 - 120
Chromium	10.0	9.366		mg/Kg		94	80 - 120
Copper	10.0	9.347		mg/Kg		93	80 - 120
Iron	50.0	46.41		mg/Kg		93	80 - 120
Manganese	10.0	9.685		mg/Kg		97	80 - 120
Lead	10.0	9.308		mg/Kg		93	80 - 120
Antimony	10.0	9.708		mg/Kg		97	80 - 120
Selenium	10.0	9.491		mg/Kg		95	80 - 120
Thallium	10.0	9.419		mg/Kg		94	80 - 120
Uranium	2.50	2.341		mg/Kg		94	80 - 120
Zinc	10.0	10.41		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 860-40114/3-A
Matrix: Solid
Analysis Batch: 40171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40114

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	4.90	4.645		mg/Kg		95	80 - 120	4	20
Arsenic	9.80	9.222		mg/Kg		94	80 - 120	2	20
Barium	9.80	9.259		mg/Kg		94	80 - 120	3	20
Beryllium	9.80	9.570		mg/Kg		98	80 - 120	1	20
Cadmium	9.80	9.279		mg/Kg		95	80 - 120	2	20
Chromium	9.80	9.111		mg/Kg		93	80 - 120	3	20
Copper	9.80	8.911		mg/Kg		91	80 - 120	5	20
Iron	49.0	45.01		mg/Kg		92	80 - 120	3	20
Manganese	9.80	9.456		mg/Kg		96	80 - 120	2	20
Lead	9.80	9.072		mg/Kg		93	80 - 120	3	20
Antimony	9.80	9.488		mg/Kg		97	80 - 120	2	20
Selenium	9.80	9.306		mg/Kg		95	80 - 120	2	20
Thallium	9.80	9.182		mg/Kg		94	80 - 120	3	20
Uranium	2.45	2.324		mg/Kg		95	80 - 120	1	20
Zinc	9.80	9.952		mg/Kg		102	80 - 120	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A
Matrix: Solid
Analysis Batch: 39840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-39690/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39840 — **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-42380/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/22/22 10:19	02/24/22 11:23	1

Lab Sample ID: LCS 860-42380/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	1.00	1.120	*	mg/Kg		112	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9066 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCSD 860-42380/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total			1.00	1.040		mg/Kg		104	90 - 110	7	20

Lab Sample ID: 860-19939-1 MS — **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenols, Total	0.0600	U *	1.00	0.8240	N1	mg/Kg		82	90 - 110		

Lab Sample ID: 860-19939-1 MSD — **Client Sample ID: Cell22-Square 132-S-3-4-220127**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 43154 — **Prep Batch: 42380**

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	0.9800		mg/Kg		98	90 - 110	17	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193206/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/15/22 15:10	1

Lab Sample ID: LCS 560-193206/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2124		mg/L		94	90 - 110		

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552706 — **Prep Batch: 549553**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.2	96.60		11.6		1.13	pCi/g	100	75 - 125		
Cesium-137			26.0	26.44		3.22		0.201	pCi/g	102	75 - 125		
Cobalt-60			8.07	8.469		1.06		0.145	pCi/g	105	75 - 125		

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	5035	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8260B	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8260B	
MB 560-192708/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192708/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192708/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8270D	39525
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8270D	39525

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3546	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8270D	566137
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 566465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 39480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
MB 860-39480/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3550C	

Analysis Batch: 39536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8081B	39480
LCS 860-39480/2-A	Lab Control Sample	Total/NA	Solid	8081B	39480
LCSD 860-39480/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	39480
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8081B	39480

Analysis Batch: 39558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8082A	39480
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8082A	39480
MB 860-39480/1-A	Method Blank	Total/NA	Solid	8082A	39480
LCS 860-39480/4-A	Lab Control Sample	Total/NA	Solid	8082A	39480
LCSD 860-39480/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	39480

Prep Batch: 39790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8015NM Prep	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8015NM Prep	
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8015B NM	39790
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8015B NM	39790
MB 860-39790/1-A - RA	Method Blank	Total/NA	Solid	8015B NM	39790
LCS 860-39790/2-A - RA	Lab Control Sample	Total/NA	Solid	8015B NM	39790
LCSD 860-39790/3-A - RA	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39790

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9056A	39863

Drying Batch: 564725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8330B	564725
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8330B	564725
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	8330B	565272
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	8330B	565272
MB 280-565272/1-A	Method Blank	Total/NA	Solid	8330B	565272

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Analysis Batch: 565637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-565272/2-A	Lab Control Sample	Total/NA	Solid	8330B	565272

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6860	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6860	
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6860	565161
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6860	565161
MB 280-565161/1-A	Method Blank	Total/NA	Solid	6860	565161
LCS 280-565161/2-A	Lab Control Sample	Total/NA	Solid	6860	565161

Prep Batch: 565681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	
MB 280-565681/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	PFC leach	

Analysis Batch: 566232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
MB 280-565681/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565681
LCS 280-565681/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565681
860-19939-2 MS	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681
860-19939-2 MSD	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	DV-LC-0012	565681

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	7471A	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Metals (Continued)

Prep Batch: 39690 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	7471A	39690
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	3051A	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	3051A	
MB 860-40114/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 40171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-40114/1-A	Method Blank	Total/NA	Solid	6020A	40114
LCS 860-40114/2-A	Lab Control Sample	Total/NA	Solid	6020A	40114
LCSD 860-40114/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40114

Analysis Batch: 40235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	6020A	40114
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	6020A	40114

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-19939-1 DU	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Moisture - 2540	

Leach Batch: 40845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Soluble	Solid	DI Leach	
860-19939-2	Cell20-Square 200-S-3-4-220127	Soluble	Solid	DI Leach	

Analysis Batch: 40861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Soluble	Solid	9045D	40845
860-19939-2	Cell20-Square 200-S-3-4-220127	Soluble	Solid	9045D	40845

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9012A	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Prep Batch: 40886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9012A	40886
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Prep Batch: 42380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
MB 860-42380/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 43154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	9066	42380
MB 860-42380/1-A	Method Blank	Total/NA	Solid	9066	42380
LCS 860-42380/2-A	Lab Control Sample	Total/NA	Solid	9066	42380
LCSD 860-42380/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	42380
860-19939-1 MS	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380
860-19939-1 MSD	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	9066	42380

Leach Batch: 193204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	7 Day Leach	Solid	335.521	
860-19939-2	Cell20-Square 200-S-3-4-220127	7 Day Leach	Solid	335.521	

Analysis Batch: 193206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
860-19939-2	Cell20-Square 200-S-3-4-220127	7 Day Leach	Solid	SM 2540C	193204
MB 560-193206/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193206/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Dry and Grind	
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Rad

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19939-1	Cell22-Square 132-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
860-19939-2	Cell20-Square 200-S-3-4-220127	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell22-Square 132-S-3-4-220127 **Lab Sample ID: 860-19939-1**
Date Collected: 01/27/22 09:46 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.69 g	5 mL	192708	01/31/22 20:04	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 02:59	A1S	XEN STF
Total/NA	Prep	3550C			30.06 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 04:38	T1S	XEN STF
Total/NA	Prep	3546			15.04 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 20:54	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:37	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 12:04	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:09	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.86 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 15:18	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.93 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/02/22 23:27	WP	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	39863	02/01/22 20:42	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/02/22 23:27	WP	XEN STF
Total/NA	Prep	6860			10.03 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:20	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.69 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 14:17	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 17:01	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:41	SHZ	XEN STF
Total/NA	Prep	9012A			0.5056 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:30	CM1	XEN STF
Soluble	Leach	DI Leach			20.14 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.14 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:31	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			350.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552701	02/28/22 11:47	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square 200-S-3-4-220127 **Lab Sample ID: 860-19939-2**
Date Collected: 01/27/22 08:58 **Matrix: Solid**
Date Received: 01/28/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192708	01/31/22 20:30	RJD	XEN CC
Total/NA	Prep	5035			5.02 g	5 mL	39768	02/01/22 11:08	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 03:20	A1S	XEN STF
Total/NA	Prep	3550C			30.67 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 05:02	T1S	XEN STF
Total/NA	Prep	3546			15.10 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 21:20	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	39790	02/02/22 10:33	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			39915	02/02/22 22:57	T1S	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8081B		1			39536	01/31/22 12:20	WP	XEN STF
Total/NA	Prep	3550C			30.03 g	5 mL	39480	01/29/22 11:03	JN	XEN STF
Total/NA	Analysis	8082A		1			39558	01/31/22 19:18	JAL	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	564725	01/29/22 12:52	EKB	TAL DEN
Total/NA	Prep	8330B			10.82 g	40 mL	565272	02/05/22 11:25	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565637	02/10/22 15:41	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:43	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:02	WP	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	39863	02/01/22 20:43	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:02	WP	XEN STF
Total/NA	Prep	6860			10.51 g	100 mL	565161	02/03/22 17:49	TEH	TAL DEN
Total/NA	Analysis	6860		1			565540	02/08/22 20:25	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	565681	02/10/22 11:04	DCL	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566232	02/16/22 14:25	AGCM	TAL DEN
Total/NA	Prep	3051A			.58 g	50 mL	40114	02/03/22 09:33	PB	XEN STF
Total/NA	Analysis	6020A		10			40235	02/03/22 17:04	DCL	XEN STF
Total/NA	Prep	7471A			.53 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:43	SHZ	XEN STF
Total/NA	Prep	9012A			0.4935 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:31	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	40845	02/09/22 12:58	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	40861	02/09/22 14:16	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42380	02/22/22 10:19	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	43154	02/24/22 11:39	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193204	02/07/22 15:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193206	02/15/22 15:10	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			332.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 11:46	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19939-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19939-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Sample Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19939-1
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19939-1	Cell22-Square 132-S-3-4-220127	Solid	01/27/22 09:46	01/28/22 10:19
860-19939-2	Cell20-Square 200-S-3-4-220127	Solid	01/27/22 08:58	01/28/22 10:19

Page 654 of 1603

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 - 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 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)	[redacted] (Yes or No)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 Perchlorate-Ddenver- soil jar 4 oz	6330S - 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 226/226- St Louis- 2 plastic jars 16	9066- Phenolics/ 8012 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															
Cell 20-Square 132-S-3-4-220127	1/27/22	0944	A	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 200-Square 200-S-3-4-220127	1/27/22	0858	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-19939 Chain of Custody

Temp: 1.5 IR ID:HOU-323
C/F: +0.2
Corrected Temp: 1.7

TB

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	Cory Rodriguez	1/27/22 1700	Arcadis			
2					1/28/22 10:19	
3						

Custody Seals Intact:	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		

Ver: 01/16/2019

Received by OCD: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9774.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/16/2022			
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, 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:						
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	1	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 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 out 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 complicance 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	1/28/22		FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 1/31/22 0905	Company ETA STL
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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Houston
Benbriar Dr
Arord, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9773.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/15/2022			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002	PO #:			
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	WO #:			
Email:	Project #: 86002103			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site:				

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:

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	X	X	2	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 Central		Solid			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 out 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 complicance 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: 1/28/22	Company	Received by:	Date/Time: 1/29/22 1013	Company ETA/DEN	
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: 1.6 IR13 CF -0.2

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9772.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19939-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/16/2022			
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#:			

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:

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell22-Square 132-S-3-4-220127 (860-19939-1)	1/27/22	09:46 Central		Solid			X	1	
Cell20-Square 200-S-3-4-220127 (860-19939-2)	1/27/22	08:58 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 out 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 complicance 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: 1/29/22	Company	Received by:	Date/Time: 1-27-22	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 9.6 IR		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Houston**
List Number: 1
Creator: Torrez, Lisandra

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Houston**
List Number: 2
Creator: Torrez, Lisandra

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 U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Corpus Christi**
List Number: 4 **List Creation: 01/29/22 11:24 AM**
Creator: Forrester, Caitlyn D

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	
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	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19939-1

Login Number: 19939 **List Source: Eurofins Denver**
List Number: 5 **List Creation: 01/29/22 11:26 AM**
Creator: Lee, Jerry

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?	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").	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: 860-19939-1

Login Number: 19939 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 01/29/22 10:39 AM**
Creator: Whitley, Adrian

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	4.6°C IR6
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: 860-19939-1

Login Number: 19939 **List Source: Eurofins St. Louis**
List Number: 6 **List Creation: 02/01/22 12:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19990-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 6:05:09 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19990-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control 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 TICs

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
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	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.

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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19990-1

Receipt
The samples were received on 1/29/2022 9:40 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 1.4°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-39525 and analytical batch 860-39561 recovered outside control limits for the following analyte: Atrazine.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: Cell25-Square116-5-3-4-220128 (860-19990-1). 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.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (860-19990-I-1 MS), (860-19990-I-1 MSD), (860-19990-I-2 DU) and (860-19990-I-2 TRL) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell25-Square116-5-3-4-220128 (860-19990-1), (860-19990-I-1 MS) and (860-19990-I-1 MSD). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (860-19990-I-1-B MS), (860-19990-I-1-C MSD), (860-19990-I-2-B DU) and (860-19990-I-2-C TRL) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1 (Continued)

Laboratory: Eurofins Houston (Continued)

PFAS

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

Metals

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-40290 and analytical batch 860-40589 were outside control limits for Zinc. 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.

General Chemistry

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 160-549553Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell25-Square116-5-3-4-220128 (860-19990-1), Cell25-Square71-5-3-4-220128 (860-19990-2), (LCS 160-549553/2-A), (MB 160-549553/1-A) and (860-19990-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 Lab Sample ID: 860-19990-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.57	J	9.90	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	2.26		0.990	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.36	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.302	J	0.990	0.0495	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.56		0.990	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	11.2		9.90	4.28	mg/Kg	1		9056A	Total/NA
Arsenic	2.96	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	41.5		3.64	0.315	mg/Kg	10		6020A	Total/NA
Beryllium	0.551	J	1.82	0.168	mg/Kg	10		6020A	Total/NA
Chromium	10.6		3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	2.90	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	8950		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	55.3		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	4.80		1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	2.71		1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.208	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	25.1		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00691	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	35.8	J	61.5	30.5	ug/Kg	1		9012A	Total/NA
pH	7.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	810		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-Square71-5-3-4-220128 Lab Sample ID: 860-19990-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.58	J	10.1	3.58	mg/Kg	1		9056A	Total/NA
Nitrate as N	2.27		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	3.20	J	5.05	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.471	J	1.01	0.0505	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	2.74		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	6.45	J	10.1	4.36	mg/Kg	1		9056A	Total/NA
Arsenic	1.91	J	3.51	0.541	mg/Kg	10		6020A	Total/NA
Barium	22.3		3.51	0.304	mg/Kg	10		6020A	Total/NA
Beryllium	0.328	J	1.75	0.162	mg/Kg	10		6020A	Total/NA
Chromium	6.52		3.51	0.238	mg/Kg	10		6020A	Total/NA
Copper	1.83	J	3.51	0.229	mg/Kg	10		6020A	Total/NA
Iron	5590		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	37.8		1.75	0.223	mg/Kg	10		6020A	Total/NA
Lead	3.42		1.75	0.170	mg/Kg	10		6020A	Total/NA
Antimony	0.282	J	1.75	0.104	mg/Kg	10		6020A	Total/NA
Uranium	0.129	J	0.877	0.0524	mg/Kg	10		6020A	Total/NA
Zinc	13.5		3.51	0.388	mg/Kg	10		6020A	Total/NA
Mercury	0.00491	J	0.0182	0.00349	mg/Kg	1		7471A	Total/NA
Cyanide, Total	37.5	J	60.5	30.0	ug/Kg	1		9012A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	216		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.676	U	4.63	0.676	ug/Kg			02/01/22 14:34	1
Chloromethane	1.11	U	4.63	1.11	ug/Kg			02/01/22 14:34	1
Vinyl chloride	0.556	U	4.63	0.556	ug/Kg			02/01/22 14:34	1
Bromomethane	1.02	U	4.63	1.02	ug/Kg			02/01/22 14:34	1
Trichlorofluoromethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Acrolein	7.96	U	46.3	7.96	ug/Kg			02/01/22 14:34	1
1,1-Dichloroethene	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
trans-1,2-Dichloroethene	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Methyl tert-butyl ether	0.565	U	4.63	0.565	ug/Kg			02/01/22 14:34	1
1,3-Dichlorobenzene	0.287	U	4.63	0.287	ug/Kg			02/01/22 14:34	1
Methylene Chloride	4.63	U	23.1	4.63	ug/Kg			02/01/22 14:34	1
Acrylonitrile	3.33	U	46.3	3.33	ug/Kg			02/01/22 14:34	1
cis-1,2-Dichloroethene	0.528	U	4.63	0.528	ug/Kg			02/01/22 14:34	1
Carbon tetrachloride	0.472	U	4.63	0.472	ug/Kg			02/01/22 14:34	1
Benzene	0.583	U	4.63	0.583	ug/Kg			02/01/22 14:34	1
1,2-Dichloroethane	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
Trichloroethene	0.259	U	4.63	0.259	ug/Kg			02/01/22 14:34	1
1,1,1-Trichloroethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
1,1-Dichloroethane	0.546	U	4.63	0.546	ug/Kg			02/01/22 14:34	1
1,2-Dichloropropane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
1,4-Dioxane	17.6	U	92.6	17.6	ug/Kg			02/01/22 14:34	1
Chloroform	0.806	U	4.63	0.806	ug/Kg			02/01/22 14:34	1
Bromodichloromethane	0.185	U	4.63	0.185	ug/Kg			02/01/22 14:34	1
1,1-Dichloropropene	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
cis-1,3-Dichloropropene	0.417	U	4.63	0.417	ug/Kg			02/01/22 14:34	1
Toluene	0.833	U	4.63	0.833	ug/Kg			02/01/22 14:34	1
trans-1,3-Dichloropropene	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
1,1,2-Trichloroethane	0.463	U	4.63	0.463	ug/Kg			02/01/22 14:34	1
Tetrachloroethene	0.685	U *	4.63	0.685	ug/Kg			02/01/22 14:34	1
1,3-Dichloropropene, Total	0.481	U	4.63	0.481	ug/Kg			02/01/22 14:34	1
1,2-Dibromoethane	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Monochlorobenzene	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Ethylbenzene	0.417	U	4.63	0.417	ug/Kg			02/01/22 14:34	1
Xylenes, Total	0.463	U	9.26	0.463	ug/Kg			02/01/22 14:34	1
Styrene	0.278	U	4.63	0.278	ug/Kg			02/01/22 14:34	1
Tribromomethane	0.472	U	4.63	0.472	ug/Kg			02/01/22 14:34	1
1,1,2,2-Tetrachloroethane	0.352	U	4.63	0.352	ug/Kg			02/01/22 14:34	1
1,4-Dichlorobenzene	0.296	U	4.63	0.296	ug/Kg			02/01/22 14:34	1
1,2-Dichlorobenzene	0.231	U	4.63	0.231	ug/Kg			02/01/22 14:34	1
1,2,4-Trichlorobenzene	0.898	U	4.63	0.898	ug/Kg			02/01/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 14:34*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 152*		*02/01/22 14:34*	*1*
Toluene-d8 (Surr)	*94*		*65 - 139*		*02/01/22 14:34*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00502	0.00251	mg/Kg		02/01/22 16:14	02/03/22 03:42	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128
Lab Sample ID: 860-19990-1
Date Collected: 01/28/22 10:55
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*02/01/22 16:14*	*02/03/22 03:42*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.9	11.8	ug/Kg		02/10/22 13:33	02/14/22 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*93*		*30 - 164*	*02/10/22 13:33*	*02/14/22 21:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	173	U	1650	173	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
1,2,4,5-Tetrachlorobenzene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
1-Methylnaphthalene	265	U	1650	265	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
bis (2-chloroisopropyl) ether	177	U	1650	177	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4,5-Trichlorophenol	189	U	1650	189	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dinitrophenols	240	U	3310	240	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,4-Dichlorophenol	173	U	1650	173	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2,6-Dinitrotoluene	231	U	1650	231	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dichlorobenzidine, 3,3'-	153	U	3310	153	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
4,6-Dinitro-2-methylphenol	126	U	3310	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Acenaphthene	154	U	1650	154	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Acenaphthylene	147	U	1650	147	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[a]anthracene	140	U	1650	140	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[b]fluoranthene	125	U	1650	125	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[k]fluoranthene	192	U	1650	192	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzo[a]pyrene	171	U	1650	171	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Di (2-ethylhexyl)phthalate	1650	U	3310	1650	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Bis(2-chloroethyl)ether	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Chrysene	164	U	1650	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dibenz(a,h)anthracene	126	U	1650	126	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Diethyl phthalate	152	U	1650	152	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Dimethyl phthalate	158	U	1650	158	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Fluoranthene	146	U	1650	146	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorobenzene	161	U	1650	161	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachlorocyclopentadiene	151	U	1650	151	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Hexachloroethane	172	U	1650	172	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Isophorone	144	U	1650	144	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodi-n-butylamine	251	U	1650	251	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodiethylamine	218	U	1650	218	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodiphenylamine	185	U	1650	185	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosopyrrolidine	140	U	1650	140	ug/Kg		01/31/22 07:24	02/02/22 05:26	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	158	U	1650	158	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Pentachlorophenol	120	U	3310	120	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Phenanthrene	165	U	1650	165	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Pyrene	145	U	1650	145	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Naphthalene	155	U	1650	155	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
2-Methylnaphthalene	448	U	1650	448	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Nitrobenzene	184	U	1650	184	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Benzidine	120	U	3310	120	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Phenol	0.149	U	3.31	0.149	mg/Kg		01/31/22 07:24	02/02/22 05:26	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Atrazine	164	U *	3310	164	ug/Kg		01/31/22 07:24	02/02/22 05:26	10
Thiophene, tetrahydro-, 1,1-dioxide	3310	U	3310	3310	ug/Kg		01/31/22 07:24	02/02/22 05:26	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.62*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 07:24*	*02/02/22 05:26*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*30 - 115*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
2-Fluorophenol	*75*		*25 - 121*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
2,4,6-Tribromophenol	*94*		*19 - 122*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
Nitrobenzene-d5	*68*		*23 - 129*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
Phenol-d5 (Surr)	*73*		*24 - 113*	*01/31/22 07:24*	*02/02/22 05:26*	*10*
p-Terphenyl-d14 (Surr)	*88*		*18 - 137*	*01/31/22 07:24*	*02/02/22 05:26*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*02/03/22 13:11*	*02/03/22 15:02*	*1*
o-Terphenyl (Surr)	*77*		*65 - 130*	*02/03/22 13:11*	*02/03/22 15:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 12:06	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:06	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:06*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:41	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:41*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:41*	*1*

Method: 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	0.0227	U	0.0998	0.0227	mg/Kg		02/07/22 15:28	02/11/22 02:48	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		02/07/22 15:28	02/11/22 02:48	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		02/07/22 15:28	02/11/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*108*		*83 - 122*	*02/07/22 15:28*	*02/11/22 02:48*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.57**	**J**	9.90	3.50	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrate as N	**2.26**		0.990	0.107	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Fluoride	**2.36**	**J**	4.95	0.990	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrite as N	**0.302**	**J**	0.990	0.0495	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Nitrate Nitrite as N	**2.56**		0.990	0.107	mg/Kg		02/01/22 20:44	02/03/22 01:37	1
Sulfate	**11.2**		9.90	4.28	mg/Kg		02/01/22 20:44	02/03/22 01:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0816	U	0.495	0.0816	ug/Kg		02/07/22 14:51	02/08/22 16:06	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.227	U	0.791	0.227	ug/Kg		02/07/22 10:31	02/16/22 10:02	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	0.791	0.277	ug/Kg		02/07/22 10:31	02/16/22 10:02	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.791	0.138	ug/Kg		02/07/22 10:31	02/16/22 10:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128 **Lab Sample ID: 860-19990-1**
Date Collected: 01/28/22 10:55 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*02/07/22 10:31*	*02/16/22 10:02*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 10:02*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Arsenic	**2.96**	**J**	3.64	0.561	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Barium	**41.5**		3.64	0.315	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Beryllium	**0.551**	**J**	1.82	0.168	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Chromium	**10.6**		3.64	0.247	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Copper	**2.90**	**J**	3.64	0.237	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Iron	**8950**		18.2	2.13	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Manganese	**55.3**		1.82	0.231	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Lead	**4.80**		1.82	0.176	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Antimony	**2.71**		1.82	0.108	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Uranium	**0.208**	**J**	0.909	0.0543	mg/Kg		02/04/22 11:08	02/07/22 19:14	10
Zinc	**25.1**		3.64	0.402	mg/Kg		02/04/22 11:08	02/07/22 19:14	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00691**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**35.8**	**J**	61.5	30.5	ug/Kg		02/09/22 15:50	02/09/22 17:35	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 13:49	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**810**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.527**		0.146	0.159	1.00	0.138	pCi/g	02/07/22 10:12	02/28/22 11:48	1
Radium-228	0.427	U	0.174	0.181		0.493	pCi/g	02/07/22 10:12	02/28/22 11:48	1
Combined Radium 226 + 228	**0.954**		0.227	0.241		0.493	pCi/g	02/07/22 10:12	02/28/22 11:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.723	U	4.95	0.723	ug/Kg			02/01/22 14:59	1
Chloromethane	1.19	U	4.95	1.19	ug/Kg			02/01/22 14:59	1
Vinyl chloride	0.594	U	4.95	0.594	ug/Kg			02/01/22 14:59	1
Bromomethane	1.09	U	4.95	1.09	ug/Kg			02/01/22 14:59	1
Trichlorofluoromethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Acrolein	8.51	U	49.5	8.51	ug/Kg			02/01/22 14:59	1
1,1-Dichloroethene	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
trans-1,2-Dichloroethene	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Methyl tert-butyl ether	0.604	U	4.95	0.604	ug/Kg			02/01/22 14:59	1
1,3-Dichlorobenzene	0.307	U	4.95	0.307	ug/Kg			02/01/22 14:59	1
Methylene Chloride	4.95	U	24.8	4.95	ug/Kg			02/01/22 14:59	1
Acrylonitrile	3.56	U	49.5	3.56	ug/Kg			02/01/22 14:59	1
cis-1,2-Dichloroethene	0.564	U	4.95	0.564	ug/Kg			02/01/22 14:59	1
Carbon tetrachloride	0.505	U	4.95	0.505	ug/Kg			02/01/22 14:59	1
Benzene	0.624	U	4.95	0.624	ug/Kg			02/01/22 14:59	1
1,2-Dichloroethane	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
Trichloroethene	0.277	U	4.95	0.277	ug/Kg			02/01/22 14:59	1
1,1,1-Trichloroethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
1,1-Dichloroethane	0.584	U	4.95	0.584	ug/Kg			02/01/22 14:59	1
1,2-Dichloropropane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
1,4-Dioxane	18.8	U	99.0	18.8	ug/Kg			02/01/22 14:59	1
Chloroform	0.861	U	4.95	0.861	ug/Kg			02/01/22 14:59	1
Bromodichloromethane	0.198	U	4.95	0.198	ug/Kg			02/01/22 14:59	1
1,1-Dichloropropene	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
cis-1,3-Dichloropropene	0.446	U	4.95	0.446	ug/Kg			02/01/22 14:59	1
Toluene	0.891	U	4.95	0.891	ug/Kg			02/01/22 14:59	1
trans-1,3-Dichloropropene	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
1,1,2-Trichloroethane	0.495	U	4.95	0.495	ug/Kg			02/01/22 14:59	1
Tetrachloroethene	0.733	U *	4.95	0.733	ug/Kg			02/01/22 14:59	1
1,3-Dichloropropene, Total	0.515	U	4.95	0.515	ug/Kg			02/01/22 14:59	1
1,2-Dibromoethane	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Monochlorobenzene	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Ethylbenzene	0.446	U	4.95	0.446	ug/Kg			02/01/22 14:59	1
Xylenes, Total	0.495	U	9.90	0.495	ug/Kg			02/01/22 14:59	1
Styrene	0.297	U	4.95	0.297	ug/Kg			02/01/22 14:59	1
Tribromomethane	0.505	U	4.95	0.505	ug/Kg			02/01/22 14:59	1
1,1,2,2-Tetrachloroethane	0.376	U	4.95	0.376	ug/Kg			02/01/22 14:59	1
1,4-Dichlorobenzene	0.317	U	4.95	0.317	ug/Kg			02/01/22 14:59	1
1,2-Dichlorobenzene	0.248	U	4.95	0.248	ug/Kg			02/01/22 14:59	1
1,2,4-Trichlorobenzene	0.960	U	4.95	0.960	ug/Kg			02/01/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 14:59*	*1*
4-Bromofluorobenzene (Surr)	*110*		*61 - 142*		*02/01/22 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*02/01/22 14:59*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 14:59*	*1*

Method: 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		02/01/22 16:14	02/03/22 04:04	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Client Sample ID: Cell25-Square71-5-3-4-220128
Date Collected: 01/28/22 10:40
Date Received: 01/29/22 09:40

Lab Sample ID: 860-19990-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*	*02/01/22 16:14*	*02/03/22 04:04*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.6	11.7	ug/Kg		02/10/22 13:33	02/14/22 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*30 - 164*	*02/10/22 13:33*	*02/14/22 22:12*	*1*

Method: 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		01/31/22 15:04	02/01/22 22:13	1
1,2,4,5-Tetrachlorobenzene	16.4	U	166	16.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
1-Methylnaphthalene	26.6	U	166	26.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
bis (2-chloroisopropyl) ether	17.7	U	166	17.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4,5-Trichlorophenol	19.0	U	166	19.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4,6-Trichlorophenol	15.7	U	166	15.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4-Dinitrotoluene	12.7	U	166	12.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dinitrophenols	24.1	U	332	24.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,4-Dichlorophenol	17.4	U	166	17.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2,6-Dinitrotoluene	23.2	U	166	23.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dichlorobenzidine, 3,3'-	15.3	U	332	15.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
4,6-Dinitro-2-methylphenol	12.7	U	332	12.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Acenaphthene	15.4	U	166	15.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Anthracene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Acenaphthylene	14.7	U	166	14.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[a]anthracene	14.0	U	166	14.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[b]fluoranthene	12.5	U	166	12.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[k]fluoranthene	19.3	U	166	19.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[g,h,i]perylene	15.3	U	166	15.3	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzo[a]pyrene	17.1	U	166	17.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Di (2-ethylhexyl)phthalate	166	U	332	166	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Bis(2-chloroethyl)ether	15.1	U	166	15.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Chrysene	16.5	U	166	16.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dibutylphthalate	16.0	U	166	16.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dibenz(a,h)anthracene	12.6	U	166	12.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Diethyl phthalate	15.2	U	166	15.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Dimethyl phthalate	15.8	U	166	15.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Fluoranthene	14.6	U	166	14.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Fluorene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorobenzene	16.1	U	166	16.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorobutadiene	13.8	U	166	13.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachlorocyclopentadiene	15.1	U	166	15.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Hexachloroethane	17.2	U	166	17.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Indeno[1,2,3-cd]pyrene	13.4	U	166	13.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Isophorone	14.5	U	166	14.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodi-n-butylamine	25.2	U	166	25.2	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodiethylamine	21.8	U	166	21.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodiphenylamine	18.5	U	166	18.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosopyrrolidine	14.0	U	166	14.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.8	U	166	15.8	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Pentachlorophenol	12.1	U	332	12.1	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Phenanthrene	16.5	U	166	16.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Pyrene	14.5	U	166	14.5	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Naphthalene	15.6	U	166	15.6	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
2-Methylnaphthalene	45.0	U	166	45.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Nitrobenzene	18.4	U	166	18.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Benzidine	12.0	U	332	12.0	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Phenol	0.0149	U	0.332	0.0149	mg/Kg		01/31/22 15:04	02/01/22 22:13	1
N-Nitrosodimethylamine	16.7	U	166	16.7	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Atrazine	16.4	U	332	16.4	ug/Kg		01/31/22 15:04	02/01/22 22:13	1
Thiophene, tetrahydro-, 1,1-dioxide	332	U	332	332	ug/Kg		01/31/22 15:04	02/01/22 22:13	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*	*01/31/22 15:04*	*02/01/22 22:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*30 - 115*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
2-Fluorophenol	*92*		*25 - 121*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
Nitrobenzene-d5	*88*		*23 - 129*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
Phenol-d5 (Surr)	*91*		*24 - 113*	*01/31/22 15:04*	*02/01/22 22:13*	*1*
p-Terphenyl-d14 (Surr)	*95*		*18 - 137*	*01/31/22 15:04*	*02/01/22 22:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1
OII Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		02/03/22 13:11	02/03/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:03*	*1*
o-Terphenyl (Surr)	*86*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endrin	0.290	U	0.832	0.290	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		02/02/22 17:01	02/03/22 12:20	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 **Lab Sample ID: 860-19990-2**
Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		02/02/22 17:01	02/03/22 12:20	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:20*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:51	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:51*	*1*

Method: 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	0.0965	0.0219	mg/Kg		02/07/22 15:28	02/11/22 03:56	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		02/07/22 15:28	02/11/22 03:56	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		02/07/22 15:28	02/11/22 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 03:56*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.58**	**J**	10.1	3.58	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrate as N	**2.27**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Fluoride	**3.20**	**J**	5.05	1.01	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrite as N	**0.471**	**J**	1.01	0.0505	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Nitrate Nitrite as N	**2.74**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 01:49	1
Sulfate	**6.45**	**J**	10.1	4.36	mg/Kg		02/01/22 20:44	02/03/22 01:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0792	U	0.481	0.0792	ug/Kg		02/07/22 14:51	02/08/22 16:11	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.228	U	0.792	0.228	ug/Kg		02/07/22 10:31	02/16/22 10:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	0.792	0.277	ug/Kg		02/07/22 10:31	02/16/22 10:28	1
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.792	0.139	ug/Kg		02/07/22 10:31	02/16/22 10:28	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128 Lab Sample ID: 860-19990-2

Date Collected: 01/28/22 10:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	106		57 - 153	02/07/22 10:31	02/16/22 10:28	1
13C8 PFOS	102		70 - 130	02/07/22 10:31	02/16/22 10:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.139	U	1.75	0.139	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Arsenic	**1.91**	**J**	3.51	0.541	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Barium	**22.3**		3.51	0.304	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Beryllium	**0.328**	**J**	1.75	0.162	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Cadmium	0.102	U	1.75	0.102	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Chromium	**6.52**		3.51	0.238	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Copper	**1.83**	**J**	3.51	0.229	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Iron	**5590**		17.5	2.06	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Manganese	**37.8**		1.75	0.223	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Lead	**3.42**		1.75	0.170	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Antimony	**0.282**	**J**	1.75	0.104	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Selenium	0.435	U	1.75	0.435	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Thallium	0.210	U	1.75	0.210	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Uranium	**0.129**	**J**	0.877	0.0524	mg/Kg		02/04/22 11:08	02/07/22 19:37	10
Zinc	**13.5**		3.51	0.388	mg/Kg		02/04/22 11:08	02/07/22 19:37	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00491**	**J**	0.0182	0.00349	mg/Kg		02/01/22 08:30	02/01/22 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**37.5**	**J**	60.5	30.0	ug/Kg		02/09/22 15:50	02/09/22 17:37	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:02	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**216**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	0.198	U	0.0932	0.0961	1.00	0.359	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Radium-228	**0.332**		0.208	0.212		0.282	pCi/g	02/07/22 10:12	02/28/22 11:02	1
Combined Radium 226 + 228	**0.530**		0.228	0.233		0.359	pCi/g	02/07/22 10:12	02/28/22 11:02	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19990-1	Cell25-Square116-5-3-4-220128	98	111	102	94
860-19990-2	Cell25-Square71-5-3-4-220128	98	110	100	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (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)
860-19990-1	Cell25-Square116-5-3-4-220128	99
860-19990-2	Cell25-Square71-5-3-4-220128	98
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19990-1	Cell25-Square116-5-3-4-220128	93
860-19990-2	Cell25-Square71-5-3-4-220128	88
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19990-1	Cell25-Square116-5-3-4-220128	75	75	94	68	73	88
860-19990-2	Cell25-Square71-5-3-4-220128	91	92	85	88	91	95
860-19990-2 MS	Cell25-Square71-5-3-4-220128	92	100	101	95	100	98
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	71	74	92	72	74	91
LCS 860-39525/2-A	Lab Control Sample	79	78	87	74	77	82

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39525/3-A	Lab Control Sample Dup	97	91	106	87	90	99
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39525/1-A	Method Blank	81	82	92	84	80	91
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19990-1	Cell25-Square116-5-3-4-220128	87	77
860-19990-1 MS	Cell25-Square116-5-3-4-220128	90	83
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	95	88
860-19990-2	Cell25-Square71-5-3-4-220128	99	86
LCS 860-40168/2-A	Lab Control Sample	90	83
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83
MB 860-40168/1-A	Method Blank	93	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19990-1	Cell25-Square116-5-3-4-220128	74	81
860-19990-2	Cell25-Square71-5-3-4-220128	68	79
LCS 860-40042/2-A	Lab Control Sample	80	98
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97
MB 860-40042/1-A	Method Blank	74	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
860-19990-1	Cell25-Square116-5-3-4-220128	74	78								
860-19990-2	Cell25-Square71-5-3-4-220128	66	69								
LCS 860-40042/14-A	Lab Control Sample	81	87								
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83								
MB 860-40042/1-A	Method Blank	73	81								

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)									
860-19990-1	Cell25-Square116-5-3-4-220128	108									
860-19990-1 MS	Cell25-Square116-5-3-4-220128	103									
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	103									
860-19990-2	Cell25-Square71-5-3-4-220128	106									
860-19990-2 DU	Cell25-Square71-5-3-4-220128	107									
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	105									
LCS 280-565273/2-A	Lab Control Sample	104									
MB 280-565273/1-A	Method Blank	106									

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-19990-1	Cell25-Square116-5-3-4-220128	103	104								
860-19990-1 MS	Cell25-Square116-5-3-4-220128	103	103								
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	103	105								
860-19990-2	Cell25-Square71-5-3-4-220128	106	102								
DLCK 280-556129/13	Lab Control Sample	98	105								
LCS 280-565221/2-A	Lab Control Sample	103	109								
MB 280-565221/1-A	Method Blank	104	104								

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: 860-19990-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

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

Lab Sample ID: LCSD 560-192728/4
Matrix: Solid
Analysis Batch: 192728

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
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39525/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

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		01/31/22 07:24	01/31/22 15:17	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 07:24	01/31/22 15:17	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39525/1-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 07:24	01/31/22 15:17	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 07:24	01/31/22 15:17	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*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*30 - 115*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2-Fluorophenol	*82*		*25 - 121*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
2,4,6-Tribromophenol	*92*		*19 - 122*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Nitrobenzene-d5	*84*		*23 - 129*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
Phenol-d5 (Surr)	*80*		*24 - 113*	*01/31/22 07:24*	*01/31/22 15:17*	*1*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*	*01/31/22 07:24*	*01/31/22 15:17*	*1*

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	758.3		ug/Kg		57	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	828.6		ug/Kg		62	35 - 135
1-Methylnaphthalene	1330	792.3		ug/Kg		59	38 - 127
bis (2-chloroisopropyl) ether	1330	552.7		ug/Kg		41	25 - 124
2,4,5-Trichlorophenol	1330	864.1		ug/Kg		65	40 - 135
2,4,6-Trichlorophenol	1330	851.3		ug/Kg		64	39 - 139
2,4-Dinitrotoluene	1330	820.1		ug/Kg		62	48 - 131
Dinitrophenols	1330	703.9		ug/Kg		53	19 - 131
2,4-Dichlorophenol	1330	870.3		ug/Kg		65	36 - 135
2,6-Dinitrotoluene	1330	768.3		ug/Kg		58	42 - 136
Dichlorobenzidine, 3,3'-	1330	668.5		ug/Kg		50	35 - 134
4,6-Dinitro-2-methylphenol	1330	776.6		ug/Kg		58	30 - 146
Acenaphthene	1330	752.5		ug/Kg		56	37 - 131
Anthracene	1330	805.2		ug/Kg		60	39 - 139
Acenaphthylene	1330	766.0		ug/Kg		57	39 - 129
Benzo[a]anthracene	1330	792.5		ug/Kg		59	44 - 135
Benzo[b]fluoranthene	1330	791.7		ug/Kg		59	40 - 153
Benzo[k]fluoranthene	1330	840.9		ug/Kg		63	33 - 156
Benzo[g,h,i]perylene	1330	730.7		ug/Kg		55	40 - 153
Benzo[a]pyrene	1330	781.0		ug/Kg		59	43 - 153
Di (2-ethylhexyl)phthalate	1330	865.0		ug/Kg		65	46 - 145
Bis(2-chloroethyl)ether	1330	641.8		ug/Kg		48	33 - 127
Chrysene	1330	753.3		ug/Kg		56	42 - 135
Dibutylphthalate	1330	792.2		ug/Kg		59	43 - 142
Dibenz(a,h)anthracene	1330	741.2		ug/Kg		56	41 - 155
Diethyl phthalate	1330	755.0		ug/Kg		57	45 - 131
Dimethyl phthalate	1330	748.1		ug/Kg		56	43 - 132

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39525/2-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1330	772.9		ug/Kg		58	41 - 138
Fluorene	1330	777.0		ug/Kg		58	41 - 131
Hexachlorobenzene	1330	800.2		ug/Kg		60	36 - 142
Hexachlorobutadiene	1330	835.3		ug/Kg		63	35 - 129
Hexachlorocyclopentadiene	1330	975.8		ug/Kg		73	16 - 106
Hexachloroethane	1330	710.2		ug/Kg		53	36 - 121
Indeno[1,2,3-cd]pyrene	1330	741.3		ug/Kg		56	39 - 154
Isophorone	1330	743.4		ug/Kg		56	36 - 128
N-Nitrosodi-n-butylamine	1330	766.3		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	801.8		ug/Kg		60	36 - 127
N-Nitrosodiphenylamine	1330	800.6		ug/Kg		60	27 - 155
N-Nitrosopyrrolidine	1330	762.5		ug/Kg		57	38 - 136
Pentachlorobenzene	1330	767.7		ug/Kg		58	38 - 136
Pentachlorophenol	1330	870.3		ug/Kg		65	14 - 148
Phenanthrene	1330	777.9		ug/Kg		58	37 - 139
Pyrene	1330	841.1		ug/Kg		63	42 - 138
Naphthalene	1330	792.2		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	796.2		ug/Kg		60	36 - 126
Nitrobenzene	1330	779.9		ug/Kg		58	32 - 129
Benzidine	1330	247.7	J	ug/Kg		19	12 - 112
Phenol	1.33	0.7528		mg/Kg		56	34 - 127
N-Nitrosodimethylamine	1330	767.2		ug/Kg		58	27 - 126
Atrazine	1330	561.2		ug/Kg		42	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	638.5		ug/Kg		48	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*78*		*25 - 121*
2,4,6-Tribromophenol	*87*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	899.2		ug/Kg		67	20 - 157	17	30
1,2,4,5-Tetrachlorobenzene	1330	991.4		ug/Kg		74	35 - 135	18	30
1-Methylnaphthalene	1330	913.6		ug/Kg		69	38 - 127	14	30
bis (2-chloroisopropyl) ether	1330	652.6		ug/Kg		49	25 - 124	17	30
2,4,5-Trichlorophenol	1330	1068		ug/Kg		80	40 - 135	21	30
2,4,6-Trichlorophenol	1330	1027		ug/Kg		77	39 - 139	19	30
2,4-Dinitrotoluene	1330	996.4		ug/Kg		75	48 - 131	19	30
Dinitrophenols	1330	865.9		ug/Kg		65	19 - 131	21	40
2,4-Dichlorophenol	1330	1028		ug/Kg		77	36 - 135	17	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A
Matrix: Solid
Analysis Batch: 39561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39525

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,6-Dinitrotoluene			1330	946.2		ug/Kg		71	42 - 136	21	30
Dichlorobenzidine, 3,3'-			1330	749.6		ug/Kg		56	35 - 134	11	40
4,6-Dinitro-2-methylphenol			1330	984.9		ug/Kg		74	30 - 146	24	40
Acenaphthene			1330	925.8		ug/Kg		69	37 - 131	21	30
Anthracene			1330	966.2		ug/Kg		72	39 - 139	18	30
Acenaphthylene			1330	934.2		ug/Kg		70	39 - 129	20	30
Benzo[a]anthracene			1330	954.4		ug/Kg		72	44 - 135	19	30
Benzo[b]fluoranthene			1330	953.0		ug/Kg		71	40 - 153	18	30
Benzo[k]fluoranthene			1330	1007		ug/Kg		76	33 - 156	18	30
Benzo[g,h,i]perylene			1330	908.8		ug/Kg		68	40 - 153	22	30
Benzo[a]pyrene			1330	945.4		ug/Kg		71	43 - 153	19	30
Di (2-ethylhexyl)phthalate			1330	1053		ug/Kg		79	46 - 145	20	30
Bis(2-chloroethyl)ether			1330	767.8		ug/Kg		58	33 - 127	18	30
Chrysene			1330	916.1		ug/Kg		69	42 - 135	20	30
Dibutylphthalate			1330	965.3		ug/Kg		72	43 - 142	20	30
Dibenz(a,h)anthracene			1330	887.4		ug/Kg		67	41 - 155	18	30
Diethyl phthalate			1330	892.3		ug/Kg		67	45 - 131	17	30
Dimethyl phthalate			1330	916.7		ug/Kg		69	43 - 132	20	30
Fluoranthene			1330	900.5		ug/Kg		68	41 - 138	15	30
Fluorene			1330	934.1		ug/Kg		70	41 - 131	18	30
Hexachlorobenzene			1330	969.6		ug/Kg		73	36 - 142	19	30
Hexachlorobutadiene			1330	970.6		ug/Kg		73	35 - 129	15	30
Hexachlorocyclopentadiene			1330	1156		ug/Kg		87	16 - 106	17	30
Hexachloroethane			1330	842.6		ug/Kg		63	36 - 121	17	30
Indeno[1,2,3-cd]pyrene			1330	879.3		ug/Kg		66	39 - 154	17	30
Isophorone			1330	852.9		ug/Kg		64	36 - 128	14	30
N-Nitrosodi-n-butylamine			1330	896.9		ug/Kg		67	34 - 135	16	30
N-Nitrosodiethylamine			1330	946.7		ug/Kg		71	36 - 127	17	30
N-Nitrosodiphenylamine			1330	938.1		ug/Kg		70	27 - 155	16	30
N-Nitrosopyrrolidine			1330	854.3		ug/Kg		64	38 - 136	11	30
Pentachlorobenzene			1330	963.6		ug/Kg		72	38 - 136	23	30
Pentachlorophenol			1330	985.6		ug/Kg		74	14 - 148	12	40
Phenanthrene			1330	932.3		ug/Kg		70	37 - 139	18	30
Pyrene			1330	1052		ug/Kg		79	42 - 138	22	30
Naphthalene			1330	918.4		ug/Kg		69	35 - 128	15	30
2-Methylnaphthalene			1330	934.0		ug/Kg		70	36 - 126	16	30
Nitrobenzene			1330	917.7		ug/Kg		69	32 - 129	16	30
Benzidine			1330	348.0		ug/Kg		26	12 - 112	34	40
Phenol			1.33	0.8851		mg/Kg		66	34 - 127	16	40
N-Nitrosodimethylamine			1330	885.8		ug/Kg		66	27 - 126	14	30
Atrazine			1330	922.0	*	ug/Kg		69	18 - 134	49	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	747.1		ug/Kg		56	30 - 130	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*97*		*30 - 115*
2-Fluorophenol	*91*		*25 - 121*
2,4,6-Tribromophenol	*106*		*19 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39525/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39561 **Prep Batch: 39525**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	87		23 - 129
Phenol-d5 (Surr)	90		24 - 113
p-Terphenyl-d14 (Surr)	99		18 - 137

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129
Hexachlorocyclopentadiene	1330	840.4		ug/Kg		63	16 - 106
Hexachloroethane	1330	803.1		ug/Kg		60	36 - 121
Indeno[1,2,3-cd]pyrene	1330	953.5		ug/Kg		72	39 - 154
Isophorone	1330	832.7		ug/Kg		62	36 - 128
N-Nitrosodi-n-butylamine	1330	1004		ug/Kg		75	34 - 135
N-Nitrosodiethylamine	1330	829.3		ug/Kg		62	36 - 127
N-Nitrosodiphenylamine	1330	882.4		ug/Kg		66	27 - 155
N-Nitrosopyrrolidine	1330	891.2		ug/Kg		67	38 - 136
Pentachlorobenzene	1330	839.4		ug/Kg		63	38 - 136
Pentachlorophenol	1330	805.8		ug/Kg		60	14 - 148
Phenanthrene	1330	838.2		ug/Kg		63	37 - 139
Pyrene	1330	871.8		ug/Kg		65	42 - 138
Naphthalene	1330	791.0		ug/Kg		59	35 - 128
2-Methylnaphthalene	1330	822.6		ug/Kg		62	36 - 126
Nitrobenzene	1330	829.2		ug/Kg		62	32 - 129
Benzidine	1330	364.8		ug/Kg		27	12 - 112
Phenol	1.33	0.8518		mg/Kg		64	34 - 127
N-Nitrosodimethylamine	1330	792.4		ug/Kg		59	27 - 126
Atrazine	1330	1094		ug/Kg		82	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	1330	774.2		ug/Kg		58	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene	1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene	1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether	1330	850.2		ug/Kg		64	25 - 124	9	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol	1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene	1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols	1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol	1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene	1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-	1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol	1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene	1330	900.9		ug/Kg		68	37 - 131	11	30
Anthracene	1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene	1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene	1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene	1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene	1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene	1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene	1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate	1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether	1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene	1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate	1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene	1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate	1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate	1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene	1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene	1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene	1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene	1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene	1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane	1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene	1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone	1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine	1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine	1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine	1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine	1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene	1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol	1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene	1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene	1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene	1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene	1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene	1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine	1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol	1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine	1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine	1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide	1330	828.0		ug/Kg		62	30 - 130	7	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	82		30 - 115
2-Fluorophenol	87		25 - 121
2,4,6-Tribromophenol	89		19 - 122
Nitrobenzene-d5	84		23 - 129
Phenol-d5 (Surr)	86		24 - 113
p-Terphenyl-d14 (Surr)	85		18 - 137

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	17.3	U	1320	1040		ug/Kg		79	20 - 157
1,2,4,5-Tetrachlorobenzene	16.4	U	1320	977.5		ug/Kg		74	35 - 135
1-Methylnaphthalene	26.6	U	1320	986.1		ug/Kg		75	38 - 127
bis (2-chloroisopropyl) ether	17.7	U	1320	952.8		ug/Kg		72	25 - 124
2,4,5-Trichlorophenol	19.0	U	1320	1112		ug/Kg		84	40 - 135
2,4,6-Trichlorophenol	15.7	U	1320	1107		ug/Kg		84	39 - 139
2,4-Dinitrotoluene	12.7	U	1320	1003		ug/Kg		76	48 - 131
Dinitrophenols	24.1	U	1320	1056		ug/Kg		80	19 - 131
2,4-Dichlorophenol	17.4	U	1320	1097		ug/Kg		83	36 - 135
2,6-Dinitrotoluene	23.2	U	1320	1131		ug/Kg		86	42 - 136
Dichlorobenzidine, 3,3'-	15.3	U	1320	907.9		ug/Kg		69	35 - 134
4,6-Dinitro-2-methylphenol	12.7	U	1320	1048		ug/Kg		80	30 - 146
Acenaphthene	15.4	U	1320	992.0		ug/Kg		75	37 - 131
Anthracene	13.8	U	1320	1046		ug/Kg		79	39 - 139
Acenaphthylene	14.7	U	1320	1024		ug/Kg		78	39 - 129
Benzo[a]anthracene	14.0	U	1320	1006		ug/Kg		76	44 - 135
Benzo[b]fluoranthene	12.5	U	1320	1051		ug/Kg		80	40 - 153
Benzo[k]fluoranthene	19.3	U	1320	1113		ug/Kg		84	33 - 156
Benzo[g,h,i]perylene	15.3	U	1320	1148		ug/Kg		87	40 - 153
Benzo[a]pyrene	17.1	U	1320	1155		ug/Kg		88	43 - 153
Di (2-ethylhexyl)phthalate	166	U	1320	998.1		ug/Kg		76	46 - 145
Bis(2-chloroethyl)ether	15.1	U	1320	968.6		ug/Kg		73	33 - 127
Chrysene	16.5	U	1320	975.9		ug/Kg		74	42 - 135
Dibutylphthalate	16.0	U	1320	1183		ug/Kg		90	43 - 142
Dibenz(a,h)anthracene	12.6	U	1320	1148		ug/Kg		87	41 - 155
Diethyl phthalate	15.2	U	1320	1035		ug/Kg		79	45 - 131
Dimethyl phthalate	15.8	U	1320	1013		ug/Kg		77	43 - 132
Fluoranthene	14.6	U	1320	1087		ug/Kg		82	41 - 138
Fluorene	13.8	U	1320	1007		ug/Kg		76	41 - 131
Hexachlorobenzene	16.1	U	1320	1012		ug/Kg		77	36 - 142
Hexachlorobutadiene	13.8	U	1320	972.0		ug/Kg		74	35 - 129
Hexachlorocyclopentadiene	15.1	U	1320	1063		ug/Kg		81	16 - 106
Hexachloroethane	17.2	U	1320	957.5		ug/Kg		73	36 - 121
Indeno[1,2,3-cd]pyrene	13.4	U	1320	1166		ug/Kg		88	39 - 154
Isophorone	14.5	U	1320	1014		ug/Kg		77	36 - 128
N-Nitrosodi-n-butylamine	25.2	U	1320	1207		ug/Kg		92	34 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	21.8	U	1320	1009		ug/Kg		77	36 - 127
N-Nitrosodiphenylamine	18.5	U	1320	1050		ug/Kg		80	27 - 155
N-Nitrosopyrrolidine	14.0	U	1320	1101		ug/Kg		84	38 - 136
Pentachlorobenzene	15.8	U	1320	1017		ug/Kg		77	38 - 136
Pentachlorophenol	12.1	U	1320	1009		ug/Kg		77	14 - 148
Phenanthrene	16.5	U	1320	984.0		ug/Kg		75	37 - 139
Pyrene	14.5	U	1320	1026		ug/Kg		78	42 - 138
Naphthalene	15.6	U	1320	960.6		ug/Kg		73	35 - 128
2-Methylnaphthalene	45.0	U	1320	996.8		ug/Kg		76	36 - 126
Nitrobenzene	18.4	U	1320	1016		ug/Kg		77	32 - 129
Benzidine	12.0	U	1320	502.9		ug/Kg		38	12 - 112
Phenol	0.0149	U	1.32	1.052		mg/Kg		80	34 - 127
N-Nitrosodimethylamine	16.7	U	1320	923.7		ug/Kg		70	27 - 126
Atrazine	16.4	U	1320	1285		ug/Kg		98	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1320	914.4		ug/Kg		69	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*30 - 115*
2-Fluorophenol	*100*		*25 - 121*
2,4,6-Tribromophenol	*101*		*19 - 122*
Nitrobenzene-d5	*95*		*23 - 129*
Phenol-d5 (Surr)	*100*		*24 - 113*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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	1310	898.9		ug/Kg		69	20 - 157	15	30
1,2,4,5-Tetrachlorobenzene	16.4	U	1310	743.6		ug/Kg		57	35 - 135	27	30
1-Methylnaphthalene	26.6	U	1310	759.4		ug/Kg		58	38 - 127	26	30
bis (2-chloroisopropyl) ether	17.7	U	1310	716.4		ug/Kg		55	25 - 124	28	30
2,4,5-Trichlorophenol	19.0	U	1310	940.3		ug/Kg		72	40 - 135	17	30
2,4,6-Trichlorophenol	15.7	U	1310	903.0		ug/Kg		69	39 - 139	20	30
2,4-Dinitrotoluene	12.7	U	1310	910.6		ug/Kg		69	48 - 131	10	30
Dinitrophenols	24.1	U	1310	919.2		ug/Kg		70	19 - 131	14	40
2,4-Dichlorophenol	17.4	U	1310	840.4		ug/Kg		64	36 - 135	26	30
2,6-Dinitrotoluene	23.2	U	1310	981.6		ug/Kg		75	42 - 136	14	30
Dichlorobenzidine, 3,3'-	15.3	U	1310	848.1		ug/Kg		65	35 - 134	7	40
4,6-Dinitro-2-methylphenol	12.7	U	1310	951.6		ug/Kg		73	30 - 146	10	40
Acenaphthene	15.4	U	1310	791.5		ug/Kg		60	37 - 131	22	30
Anthracene	13.8	U	1310	949.7		ug/Kg		72	39 - 139	10	30
Acenaphthylene	14.7	U	1310	818.3		ug/Kg		62	39 - 129	22	30
Benzo[a]anthracene	14.0	U	1310	932.5		ug/Kg		71	44 - 135	8	30
Benzo[b]fluoranthene	12.5	U	1310	963.0		ug/Kg		73	40 - 153	9	30
Benzo[k]fluoranthene	19.3	U	1310	1031		ug/Kg		79	33 - 156	8	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[g,h,i]perylene	15.3	U	1310	1039		ug/Kg		79	40 - 153	10	30
Benzo[a]pyrene	17.1	U	1310	1063		ug/Kg		81	43 - 153	8	30
Di (2-ethylhexyl)phthalate	166	U	1310	922.1		ug/Kg		70	46 - 145	8	30
Bis(2-chloroethyl)ether	15.1	U	1310	742.8		ug/Kg		57	33 - 127	26	30
Chrysene	16.5	U	1310	909.5		ug/Kg		69	42 - 135	7	30
Dibutylphthalate	16.0	U	1310	1092		ug/Kg		83	43 - 142	8	30
Dibenz(a,h)anthracene	12.6	U	1310	1042		ug/Kg		79	41 - 155	10	30
Diethyl phthalate	15.2	U	1310	943.5		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate	15.8	U	1310	881.7		ug/Kg		67	43 - 132	14	30
Fluoranthene	14.6	U	1310	1003		ug/Kg		76	41 - 138	8	30
Fluorene	13.8	U	1310	847.9		ug/Kg		65	41 - 131	17	30
Hexachlorobenzene	16.1	U	1310	893.8		ug/Kg		68	36 - 142	12	30
Hexachlorobutadiene	13.8	U	1310	737.6		ug/Kg		56	35 - 129	27	30
Hexachlorocyclopentadiene	15.1	U	1310	796.3		ug/Kg		61	16 - 106	29	30
Hexachloroethane	17.2	U	1310	718.2		ug/Kg		55	36 - 121	29	30
Indeno[1,2,3-cd]pyrene	13.4	U	1310	1063		ug/Kg		81	39 - 154	9	30
Isophorone	14.5	U	1310	781.8		ug/Kg		60	36 - 128	26	30
N-Nitrosodi-n-butylamine	25.2	U	1310	977.5		ug/Kg		75	34 - 135	21	30
N-Nitrosodiethylamine	21.8	U	1310	768.6		ug/Kg		59	36 - 127	27	30
N-Nitrosodiphenylamine	18.5	U	1310	934.0		ug/Kg		71	27 - 155	12	30
N-Nitrosopyrrolidine	14.0	U	1310	839.9		ug/Kg		64	38 - 136	27	30
Pentachlorobenzene	15.8	U	1310	817.4		ug/Kg		62	38 - 136	22	30
Pentachlorophenol	12.1	U	1310	942.5		ug/Kg		72	14 - 148	7	40
Phenanthrene	16.5	U	1310	888.3		ug/Kg		68	37 - 139	10	30
Pyrene	14.5	U	1310	958.5		ug/Kg		73	42 - 138	7	30
Naphthalene	15.6	U	1310	730.0		ug/Kg		56	35 - 128	27	30
2-Methylnaphthalene	45.0	U	1310	756.6		ug/Kg		58	36 - 126	27	30
Nitrobenzene	18.4	U	1310	775.0		ug/Kg		59	32 - 129	27	30
Benzidine	12.0	U	1310	422.3		ug/Kg		32	12 - 112	17	40
Phenol	0.0149	U	1.31	0.7890		mg/Kg		60	34 - 127	29	40
N-Nitrosodimethylamine	16.7	U	1310	714.3		ug/Kg		54	27 - 126	26	30
Atrazine	16.4	U	1310	1172		ug/Kg		89	18 - 134	9	40
Thiophene, tetrahydro-, 1,1-dioxide	332	U	1310	745.3		ug/Kg		57		20	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*30 - 115*
2-Fluorophenol	*74*		*25 - 121*
2,4,6-Tribromophenol	*92*		*19 - 122*
Nitrobenzene-d5	*72*		*23 - 129*
Phenol-d5 (Surr)	*74*		*24 - 113*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: 860-19990-1 MS
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40117
Prep Batch: 40168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	21.1	U	992	965.4		mg/Kg		97	70 - 135
Diesel Range Organics (Over C10-C28)	21.1	U	994	934.5		mg/Kg		94	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: 860-19990-1 MS **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	90		65 - 130
o-Terphenyl (Surr)	83		65 - 130

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	21.1	U	994	1029		mg/Kg		103	70 - 135	6	35
Diesel Range Organics (Over C10-C28)	21.1	U	996	1001		mg/Kg		100	70 - 135	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		65 - 130
o-Terphenyl (Surr)	88		65 - 130

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		35 - 135	02/02/22 17:01	02/03/22 10:30	1
DCB Decachlorobiphenyl (Surr)	97		25 - 143	02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 860-40042/2-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.00		ug/Kg		114	13 - 192		
Aldrin			16.7	15.48		ug/Kg		93	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.23		ug/Kg		97	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.71		ug/Kg		94	30 - 155		
Hexachlorocyclohexane, delta-			16.7	16.67		ug/Kg		100	20 - 161		
Dieldrin			16.7	16.54		ug/Kg		99	33 - 153		
Endosulfan I			16.7	16.10		ug/Kg		97	30 - 151		
Endosulfan II			16.7	16.72		ug/Kg		100	27 - 153		
Endosulfan sulfate			16.7	17.54		ug/Kg		105	15 - 170		
Endrin			16.7	16.76		ug/Kg		101	25 - 162		
Endrin aldehyde			16.7	16.07		ug/Kg		96	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	16.67		ug/Kg		100	30 - 158		
Heptachlor			16.7	16.14		ug/Kg		97	29 - 163		
Heptachlor epoxide			16.7	15.75		ug/Kg		94	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.60		ug/Kg		106	13 - 192	8	25
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*

Lab Sample ID: LCSD 860-40042/15-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*83*		*37 - 142*

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-565273/1-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565273

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	02/07/22 15:28	02/11/22 02:02	1

Lab Sample ID: LCS 280-565273/2-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565273

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	0.9626		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9928		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene	1.00	1.035		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	104		83 - 122

Lab Sample ID: 860-19990-1 MS
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 565273

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	0.0227	U	0.972	0.9239		mg/Kg		95	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.972	0.9142		mg/Kg		94	80 - 124
2,4,6-Trinitrotoluene	0.0306	U	0.972	1.034		mg/Kg		106	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

Lab Sample ID: 860-19990-1 MSD
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 565273

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	0.0227	U	0.926	0.8642		mg/Kg		93	80 - 120	7	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.926	0.8611		mg/Kg		93	80 - 124	6	30
2,4,6-Trinitrotoluene	0.0306	U	0.926	0.9783		mg/Kg		106	80 - 120	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-19990-2 DU **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U		0.0216	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U		0.0409	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0296	U		0.0292	U	mg/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*107*		*83 - 122*

Lab Sample ID: 860-19990-2 TRL **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

Analyte	Sample Result	Sample Qualifier		TRL Result	TRL Qualifier	Unit	D			RSD	RSD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0219	U		0.0213	U	mg/Kg				NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U		0.0404	U	mg/Kg				NC	20
2,4,6-Trinitrotoluene	0.0296	U		0.0289	U	mg/Kg				NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*105*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40032 **Prep Batch: 39863**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			100	100.2		mg/Kg		100	80 - 120		
Nitrate as N			100	100.1		mg/Kg		100	80 - 120		
Fluoride			100	102.1		mg/Kg		102	80 - 120		
Nitrite as N			50.0	47.27		mg/Kg		95	80 - 120		
Nitrate Nitrite as N			150	147.4		mg/Kg		98	80 - 120		
Sulfate			100	99.86		mg/Kg		100	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-39863/34-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40032 — **Prep Batch: 39863**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N			100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride			100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N			50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N			150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate			100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 564802

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.0500	0.04711	J	ug/L		94	70 - 130		

Lab Sample ID: MB 280-565332/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565538 — **Prep Batch: 565332**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

Lab Sample ID: LCS 280-565332/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 565538 — **Prep Batch: 565332**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5210		ug/Kg		104	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorooctanoic acid (PFOA)			0.500	0.490	U	ug/L		94	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4417	J	ug/L		97	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		95	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-565221/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	19.34		ug/Kg		97	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.39		ug/Kg		96	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.15		ug/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

Lab Sample ID: 860-19990-1 MS **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.227	U	19.8	19.43		ug/Kg		98	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	18.0	17.11		ug/Kg		95	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.138	U	18.3	16.63		ug/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*103*		*70 - 130*

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.227	U	19.9	20.03		ug/Kg		100	70 - 131	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.277	U	18.1	17.94		ug/Kg		99	70 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	0.138	U	18.5	17.23		ug/Kg		93	70 - 130	4	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-19990-1 MSD
Matrix: Solid
Analysis Batch: 566231

Client Sample ID: Cell25-Square116-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 565221

Surrogate	MSD %Recovery	MSD Qualifier	Limits
13C8 PFOA	103		57 - 153
13C8 PFOS	105		70 - 130

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver			5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic			10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium			10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium			10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium			10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium			10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper			10.0	8.762		mg/Kg		88	80 - 120	3	20
Iron			50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese			10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead			10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony			10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium			10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium			10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium			2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc			10.0	9.206		mg/Kg		92	80 - 120	2	20

Lab Sample ID: 860-19990-1 MS
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.144	U	4.55	4.431		mg/Kg		97	75 - 125
Arsenic	2.96	J	9.09	11.40		mg/Kg		93	75 - 125
Barium	41.5		9.09	47.87	4	mg/Kg		70	75 - 125
Beryllium	0.551	J	9.09	8.825		mg/Kg		91	75 - 125
Cadmium	0.105	U	9.09	8.695		mg/Kg		96	75 - 125
Chromium	10.6		9.09	18.77		mg/Kg		90	75 - 125
Copper	2.90	J	9.09	11.66		mg/Kg		96	75 - 125
Iron	8950		45.5	8602	4	mg/Kg		-760	75 - 125
Manganese	55.3		9.09	61.15	4	mg/Kg		64	75 - 125
Lead	4.80		9.09	13.24		mg/Kg		93	75 - 125
Antimony	2.71		9.09	10.13		mg/Kg		82	75 - 125
Selenium	0.451	U	9.09	8.917		mg/Kg		98	75 - 125
Thallium	0.217	U	9.09	8.906		mg/Kg		98	75 - 125
Uranium	0.208	J	2.27	2.340		mg/Kg		94	75 - 125
Zinc	25.1		9.09	31.74	N1	mg/Kg		74	75 - 125

Lab Sample ID: 860-19990-1 MSD
Client Sample ID: Cell25-Square116-5-3-4-220128
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 40589
Prep Batch: 40290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.144	U	4.55	4.213		mg/Kg		93	75 - 125	5	20
Arsenic	2.96	J	9.09	11.06		mg/Kg		89	75 - 125	3	20
Barium	41.5		9.09	47.17	4	mg/Kg		63	75 - 125	1	20
Beryllium	0.551	J	9.09	8.317		mg/Kg		85	75 - 125	6	20
Cadmium	0.105	U	9.09	8.572		mg/Kg		94	75 - 125	1	20
Chromium	10.6		9.09	18.40		mg/Kg		86	75 - 125	2	20
Copper	2.90	J	9.09	11.28		mg/Kg		92	75 - 125	3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-19990-1 MSD **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	8950		45.5	8420	4	mg/Kg		-1160	75 - 125	2	20
Manganese	55.3		9.09	60.10	4	mg/Kg		53	75 - 125	2	20
Lead	4.80		9.09	12.88		mg/Kg		89	75 - 125	3	20
Antimony	2.71		9.09	9.703		mg/Kg		77	75 - 125	4	20
Selenium	0.451	U	9.09	8.670		mg/Kg		95	75 - 125	3	20
Thallium	0.217	U	9.09	8.632		mg/Kg		95	75 - 125	3	20
Uranium	0.208	J	2.27	2.302		mg/Kg		92	75 - 125	2	20
Zinc	25.1		9.09	31.53	N1	mg/Kg		71	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 860-19990-2 MS **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00491	J	0.185	0.1698		mg/Kg		89	75 - 125

Lab Sample ID: 860-19990-2 MSD **Client Sample ID: Cell25-Square71-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00491	J	0.185	0.1717		mg/Kg		90	75 - 125	1	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: 9045D - pH

Lab Sample ID: 860-19990-1 DU — **Client Sample ID: Cell25-Square116-5-3-4-220128**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 41417

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	8.0		SU		0.5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2168		mg/L		96	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: LCS 160-549553/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552706 — **Prep Batch: 549553**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	96.60		11.6		1.13	pCi/g	100	75 - 125
Cesium-137	26.0	26.44		3.22		0.201	pCi/g	102	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549553/2-A
Matrix: Solid
Analysis Batch: 552706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549553

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Cobalt-60			8.07	8.469		1.06		0.145	pCi/g	105	75 - 125		

Lab Sample ID: 860-19990-2 DU
Matrix: Solid
Analysis Batch: 552703

Client Sample ID: Cell25-Square71-5-3-4-220128
Prep Type: Total/NA
Prep Batch: 549553

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.198	U		0.4314		0.130	1.00	0.0916	pCi/g			1.03	1
Radium-228	0.332			0.4113		0.201		0.402	pCi/g			0.19	1
Combined Radium 226 + 228	0.530			0.8427		0.239		0.402	pCi/g			0.66	1

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	5035	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8260B	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39525/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-39525/1-A	Method Blank	Total/NA	Solid	8270D	39525
LCS 860-39525/2-A	Lab Control Sample	Total/NA	Solid	8270D	39525
LCSD 860-39525/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39525

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8270D	39525
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 39861 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3546	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3550C	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 40154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 565273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565114

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19990-2 TRL	Cell25-Square71-5-3-4-220128	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	PFC leach	

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6860	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6860	565332
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	7471A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690
860-19990-2 MS	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19990-2 MSD	Cell25-Square71-5-3-4-220128	Total/NA	Solid	7471A	39690

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	3051A	

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290
860-19990-1 MS	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19990-1 MSD	Cell25-Square116-5-3-4-220128	Total/NA	Solid	6020A	40290

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9012A	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Soluble	Solid	DI Leach	
860-19990-2	Cell25-Square71-5-3-4-220128	Soluble	Solid	DI Leach	
860-19990-1 DU	Cell25-Square116-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Soluble	Solid	9045D	41396
860-19990-2	Cell25-Square71-5-3-4-220128	Soluble	Solid	9045D	41396
860-19990-1 DU	Cell25-Square116-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	9066	42223
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19990-2	Cell25-Square71-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19990-2	Cell25-Square71-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry (Continued)

Analysis Batch: 193044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19990-1	Cell25-Square116-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19990-2	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
LCS 160-549553/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-19990-2 DU	Cell25-Square71-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square116-5-3-4-220128
Lab Sample ID: 860-19990-1
Date Collected: 01/28/22 10:55
Matrix: Solid
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.4 g	5 mL	192728	02/01/22 14:34	RJD	XEN CC
Total/NA	Prep	5035			4.98 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 03:42	A1S	XEN STF
Total/NA	Prep	3550C			30.22 g	1 mL	39525	01/31/22 07:24	TH	XEN STF
Total/NA	Analysis	8270D		10	1 mL	1.0 mL	39861	02/02/22 05:26	T1S	XEN STF
Total/NA	Prep	3546			15.25 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 21:46	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 15:02	T1S	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:06	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 13:41	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 02:48	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:37	WP	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:37	WP	XEN STF
Total/NA	Prep	6860			10.1 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:06	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.11 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:02	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:14	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:47	SHZ	XEN STF
Total/NA	Prep	9012A			0.4880 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:35	CM1	XEN STF
Soluble	Leach	DI Leach			20.05 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.05 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 13:49	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			360.0000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 11:48	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square71-5-3-4-220128
Lab Sample ID: 860-19990-2
Date Collected: 01/28/22 10:40
Matrix: Solid
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	5 mL	192728	02/01/22 14:59	RJD	XEN CC
Total/NA	Prep	5035			5.00 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:04	A1S	XEN STF
Total/NA	Prep	3550C			30.12 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	39861	02/01/22 22:13	T1S	XEN STF
Total/NA	Prep	3546			15.32 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 22:12	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:03	T1S	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:20	WP	XEN STF
Total/NA	Prep	3550C			30.06 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 13:51	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 03:56	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.95 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 01:49	WP	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 01:49	WP	XEN STF
Total/NA	Prep	6860			10.4 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:11	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.1 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:28	AGCM	TAL DEN
Total/NA	Prep	3051A			.57 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:37	DCL	XEN STF
Total/NA	Prep	7471A			.55 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:52	SHZ	XEN STF
Total/NA	Prep	9012A			0.4959 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:37	CM1	XEN STF
Soluble	Leach	DI Leach			20.00 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.00 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:02	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			360.1000 g	1.0 g	549553	02/07/22 10:12	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 11:02	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19990-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19990-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19990-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19990-1	Cell25-Square116-5-3-4-220128	Solid	01/28/22 10:55	01/29/22 09:40
860-19990-2	Cell25-Square71-5-3-4-220128	Solid	01/28/22 10:40	01/29/22 09:40

Page 728 of 1603

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

860-19990 Chain of Custody

Eurofins Environment Testing America

Client Information	Sampler: Karen Silva	Lab PM: Kudchadkar Sachin G	203-21039.1
Client Contact: Alison Schaffer	Phone: 432-234-1114	E-Mail: Sachin.Kudchadkar@Eurofinset.com	Page: Page 1 of 1
Company: ARCADIS U.S. Inc.		Analysis Requested	Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:		Preservation Codes:
City: Highlands Ranch	TAT Requested (days): Standard		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)
State, Zip: CO, 80129-2377			
Phone: 303-710-7537(Tel)	PO #:		Other:
Email: Alison.Schaffer@arcadis.com	WO #:		
Project Name: Chevron Jal Land Farm Soils	Project #: 86002103		
Site:	SSOW#:		

Temp: 1-2 IR ID:HOU-323
C/F +0.2
Corrected Temp: 1-4

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/ 8012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
Cell 25-Square 1/6 S-3-4-220128	01-28-22	1055	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
Cell 25-Square 71-S-3 4-220128	01-28-22	1040	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
T13				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: Karen Silva	Date: 01-28-22	Time: 1700	Method of Shipment:

Relinquished by:	Date/Time: 01-28-22/1700	Company: ARCADIS	Received by:	Date/Time: 1/29/22 9:40	Company: Xenco
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: 7/18/2023 11:20:27 AM
Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/17/2022			
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	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 - 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:						
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance 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: 1/31/22 1900	Company: Xenco	Received by: FED EX	Date/Time:	Company:
Relinquished by: FED EX	Date/Time:	Company:	Received by:	Date/Time: FEB 01 2022 0915	Company: ETSTL
Relinquished by:	Date/Time:	Company:	Received by: Autumn R. Johnson	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
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	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:

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	X	3	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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:	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: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9860.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 2/17/2022			
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#:			

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:

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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance 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: 1/31/22 1900	Company Xenco	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2.1.22 09:11	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 1774532	Cooler Temperature(s) °C and Other Remarks: 0.8°C IR8

Ver: 06/08/2021

Received by OCD: 7/18/2023 11:20:27 AM

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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 p[illegible] 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 G[illegible] on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, [illegible]isdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely[illegible]ns found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the packa[illegible], income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is[illegible]ater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extr[illegible]s $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims mus[illegible]trict time limits, see current FedEx Service Guide.

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ISIT,
O 47° F)

Custody Seal

DATE

SIGNATURE

eurofins | Environment Testing TestAmerica

1774532

ORIGIN ID:SGRA (281) 240-4200
ADMINISTRATIVE OFFICES
XENCO HOUSTON
11104 WEST AIRPORT

STAFFORD, TX 77477
UNITED STATES US

SHIP DATE: 31JAN22
ACTWGT: 10.00 LB
CAD: 110189707/INET4460

BILL SENDER

TO PENSACOLA ENVIRON.
TESTAMERICA - PENSACOLA
3355 MCLEMORE DRIVE

PENSACOLA FL 32514
(281) 240-4200
INV:
PO:
REF:
DEPT:

560J2/027C/FE4A

FedEx Express

TUE - 01 FEB 10:30A
PRIORITY OVERNIGHT

TRK# 7759 2137 4798
0201

XH PNSA

32514
FL-US BFM

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Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance 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]	1/31/22 1900	Xenco	Caitlyn Forrester	02/01/2022 1110	Ex
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: 1.1 Cc IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19990-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408	PO #:			
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	WO #:			
Email:	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 - 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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square116-5-3-4-220128 (860-19990-1)	1/28/22	10:55 Central		Solid			X	X	1	
Cell25-Square71-5-3-4-220128 (860-19990-2)	1/28/22	10:40 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 out 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 complicance 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		1/22 1900	Xenco		1-22-22 12:23	FX
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: 3.7/3.6 CG IR-10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19990-1

Login Number: 19990 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	1.4
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").	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: 860-19990-1

Login Number: 19990 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19990-1

Login Number: 19990 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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?	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").	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: 860-19990-1

Login Number: 19990 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19990-1

Login Number: 19990 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19993-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 7:58:23 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19993-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
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 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
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	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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
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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19993-1

Receipt
The samples were received on 1/29/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2). 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.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell21-Square58-5-3-4-220128 (860-19993-1) and Cell21-Square88-5-3-4-220128 (860-19993-2) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549566Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell21-Square58-5-3-4-220128 (860-19993-1), Cell21-Square88-5-3-4-220128 (860-19993-2), (LCS 160-549566/2-A), (MB 160-549566/1-A), (860-19995-D-2-B) and (860-19995-D-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 Lab Sample ID: 860-19993-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	11.7		1.01	0.109	mg/Kg	1		9056A	Total/NA
Fluoride	4.36	J	5.03	1.01	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.492	J	1.01	0.0503	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	12.2		1.01	0.109	mg/Kg	1		9056A	Total/NA
Sulfate	150		10.1	4.35	mg/Kg	1		9056A	Total/NA
Arsenic	2.88	J	3.33	0.514	mg/Kg	10		6020A	Total/NA
Barium	273		3.33	0.289	mg/Kg	10		6020A	Total/NA
Beryllium	0.178	J	1.67	0.154	mg/Kg	10		6020A	Total/NA
Chromium	2.67	J	3.33	0.226	mg/Kg	10		6020A	Total/NA
Copper	1.49	J	3.33	0.217	mg/Kg	10		6020A	Total/NA
Iron	2390		16.7	1.95	mg/Kg	10		6020A	Total/NA
Manganese	25.0		1.67	0.212	mg/Kg	10		6020A	Total/NA
Lead	1.64	J	1.67	0.161	mg/Kg	10		6020A	Total/NA
Antimony	0.182	J	1.67	0.0992	mg/Kg	10		6020A	Total/NA
Uranium	0.398	J	0.833	0.0498	mg/Kg	10		6020A	Total/NA
Zinc	8.00		3.33	0.369	mg/Kg	10		6020A	Total/NA
Mercury	0.0121	J	0.0200	0.00384	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	118		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square88-5-3-4-220128 Lab Sample ID: 860-19993-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	5.71		0.996	0.108	mg/Kg	1		9056A	Total/NA
Fluoride	6.20		4.98	0.996	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.519	J	0.996	0.0498	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	6.23		0.996	0.108	mg/Kg	1		9056A	Total/NA
Sulfate	60.8		9.96	4.30	mg/Kg	1		9056A	Total/NA
Arsenic	2.85	J	3.77	0.582	mg/Kg	10		6020A	Total/NA
Barium	143		3.77	0.327	mg/Kg	10		6020A	Total/NA
Chromium	2.20	J	3.77	0.256	mg/Kg	10		6020A	Total/NA
Copper	1.23	J	3.77	0.246	mg/Kg	10		6020A	Total/NA
Iron	1530		18.9	2.21	mg/Kg	10		6020A	Total/NA
Manganese	21.6		1.89	0.240	mg/Kg	10		6020A	Total/NA
Lead	1.04	J	1.89	0.183	mg/Kg	10		6020A	Total/NA
Antimony	0.158	J	1.89	0.112	mg/Kg	10		6020A	Total/NA
Uranium	0.354	J	0.943	0.0564	mg/Kg	10		6020A	Total/NA
Zinc	6.82		3.77	0.418	mg/Kg	10		6020A	Total/NA
Mercury	0.0106	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	114		10.0	10.0	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. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.712	U	4.87	0.712	ug/Kg			02/01/22 15:25	1
Chloromethane	1.17	U	4.87	1.17	ug/Kg			02/01/22 15:25	1
Vinyl chloride	0.585	U	4.87	0.585	ug/Kg			02/01/22 15:25	1
Bromomethane	1.07	U	4.87	1.07	ug/Kg			02/01/22 15:25	1
Trichlorofluoromethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Acrolein	8.38	U	48.7	8.38	ug/Kg			02/01/22 15:25	1
1,1-Dichloroethene	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
trans-1,2-Dichloroethene	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Methyl tert-butyl ether	0.595	U	4.87	0.595	ug/Kg			02/01/22 15:25	1
1,3-Dichlorobenzene	0.302	U	4.87	0.302	ug/Kg			02/01/22 15:25	1
Methylene Chloride	4.87	U	24.4	4.87	ug/Kg			02/01/22 15:25	1
Acrylonitrile	3.51	U	48.7	3.51	ug/Kg			02/01/22 15:25	1
cis-1,2-Dichloroethene	0.556	U	4.87	0.556	ug/Kg			02/01/22 15:25	1
Carbon tetrachloride	0.497	U	4.87	0.497	ug/Kg			02/01/22 15:25	1
Benzene	0.614	U	4.87	0.614	ug/Kg			02/01/22 15:25	1
1,2-Dichloroethane	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
Trichloroethene	0.273	U	4.87	0.273	ug/Kg			02/01/22 15:25	1
1,1,1-Trichloroethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
1,1-Dichloroethane	0.575	U	4.87	0.575	ug/Kg			02/01/22 15:25	1
1,2-Dichloropropane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
1,4-Dioxane	18.5	U	97.5	18.5	ug/Kg			02/01/22 15:25	1
Chloroform	0.848	U	4.87	0.848	ug/Kg			02/01/22 15:25	1
Bromodichloromethane	0.195	U	4.87	0.195	ug/Kg			02/01/22 15:25	1
1,1-Dichloropropene	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
cis-1,3-Dichloropropene	0.439	U	4.87	0.439	ug/Kg			02/01/22 15:25	1
Toluene	0.877	U	4.87	0.877	ug/Kg			02/01/22 15:25	1
trans-1,3-Dichloropropene	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
1,1,2-Trichloroethane	0.487	U	4.87	0.487	ug/Kg			02/01/22 15:25	1
Tetrachloroethene	0.721	U *	4.87	0.721	ug/Kg			02/01/22 15:25	1
1,3-Dichloropropene, Total	0.507	U	4.87	0.507	ug/Kg			02/01/22 15:25	1
1,2-Dibromoethane	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Monochlorobenzene	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Ethylbenzene	0.439	U	4.87	0.439	ug/Kg			02/01/22 15:25	1
Xylenes, Total	0.487	U	9.75	0.487	ug/Kg			02/01/22 15:25	1
Styrene	0.292	U	4.87	0.292	ug/Kg			02/01/22 15:25	1
Tribromomethane	0.497	U	4.87	0.497	ug/Kg			02/01/22 15:25	1
1,1,2,2-Tetrachloroethane	0.370	U	4.87	0.370	ug/Kg			02/01/22 15:25	1
1,4-Dichlorobenzene	0.312	U	4.87	0.312	ug/Kg			02/01/22 15:25	1
1,2-Dichlorobenzene	0.244	U	4.87	0.244	ug/Kg			02/01/22 15:25	1
1,2,4-Trichlorobenzene	0.945	U	4.87	0.945	ug/Kg			02/01/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*50 - 136*		*02/01/22 15:25*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 15:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 152*		*02/01/22 15:25*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 15:25*	*1*

Method: 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	0.00503	0.00252	mg/Kg		02/01/22 16:14	02/03/22 04:26	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*	*02/01/22 16:14*	*02/03/22 04:26*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.2	11.7	ug/Kg		02/10/22 13:33	02/14/22 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*88*		*30 - 164*	*02/10/22 13:33*	*02/14/22 22:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1640	170	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
1,2,4,5-Tetrachlorobenzene	162	U	1640	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
1-Methylnaphthalene	262	U	1640	262	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
bis (2-chloroisopropyl) ether	174	U	1640	174	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4,5-Trichlorophenol	187	U	1640	187	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4,6-Trichlorophenol	155	U	1640	155	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4-Dinitrotoluene	125	U	1640	125	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dinitrophenols	237	U	3270	237	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,4-Dichlorophenol	171	U	1640	171	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2,6-Dinitrotoluene	228	U	1640	228	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dichlorobenzidine, 3,3'-	151	U	3270	151	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
4,6-Dinitro-2-methylphenol	125	U	3270	125	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Acenaphthene	152	U	1640	152	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Anthracene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Acenaphthylene	145	U	1640	145	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[a]anthracene	138	U	1640	138	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[b]fluoranthene	123	U	1640	123	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[k]fluoranthene	190	U	1640	190	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[g,h,i]perylene	151	U	1640	151	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzo[a]pyrene	169	U	1640	169	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Di (2-ethylhexyl)phthalate	1640	U	3270	1640	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Bis(2-chloroethyl)ether	149	U	1640	149	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Chrysene	162	U	1640	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dibutylphthalate	157	U	1640	157	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dibenz(a,h)anthracene	124	U	1640	124	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Diethyl phthalate	150	U	1640	150	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Dimethyl phthalate	156	U	1640	156	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Fluoranthene	144	U	1640	144	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Fluorene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorobenzene	159	U	1640	159	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorobutadiene	136	U	1640	136	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachlorocyclopentadiene	149	U	1640	149	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Hexachloroethane	170	U	1640	170	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Indeno[1,2,3-cd]pyrene	132	U	1640	132	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Isophorone	142	U	1640	142	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodi-n-butylamine	248	U	1640	248	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodiethylamine	215	U	1640	215	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodiphenylamine	183	U	1640	183	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosopyrrolidine	138	U	1640	138	ug/Kg		01/31/22 15:04	02/02/22 01:25	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	156	U	1640	156	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Pentachlorophenol	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Phenanthrene	163	U	1640	163	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Pyrene	143	U	1640	143	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Naphthalene	153	U	1640	153	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
2-Methylnaphthalene	443	U	1640	443	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Nitrobenzene	181	U	1640	181	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Benzidine	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Phenol	0.147	U	3.27	0.147	mg/Kg		01/31/22 15:04	02/02/22 01:25	10
N-Nitrosodimethylamine	164	U	1640	164	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Atrazine	162	U	3270	162	ug/Kg		01/31/22 15:04	02/02/22 01:25	10
Thiophene, tetrahydro-, 1,1-dioxide	3270	U	3270	3270	ug/Kg		01/31/22 15:04	02/02/22 01:25	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.54*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:25*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
2-Fluorophenol	*76*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
2,4,6-Tribromophenol	*67*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
Nitrobenzene-d5	*69*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
Phenol-d5 (Surr)	*71*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:25*	*10*
p-Terphenyl-d14 (Surr)	*90*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:25*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:23*	*1*
o-Terphenyl (Surr)	*83*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:23*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 12:34	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:34	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:34*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:00	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:00*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:00*	*1*

Method: 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	0.0222	U	0.0978	0.0222	mg/Kg		02/07/22 15:28	02/11/22 05:05	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0420	U	0.196	0.0420	mg/Kg		02/07/22 15:28	02/11/22 05:05	1
2,4,6-Trinitrotoluene	0.0300	U	0.0978	0.0300	mg/Kg		02/07/22 15:28	02/11/22 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*109*		*83 - 122*	*02/07/22 15:28*	*02/11/22 05:05*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.56	U	10.1	3.56	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrate as N	**11.7**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Fluoride	**4.36**	**J**	5.03	1.01	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrite as N	**0.492**	**J**	1.01	0.0503	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Nitrate Nitrite as N	**12.2**		1.01	0.109	mg/Kg		02/01/22 20:44	02/03/22 02:01	1
Sulfate	**150**		10.1	4.35	mg/Kg		02/01/22 20:44	02/03/22 02:01	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0805	U	0.488	0.0805	ug/Kg		02/07/22 14:51	02/08/22 16:16	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U	0.762	0.219	ug/Kg		02/07/22 10:31	02/16/22 10:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.762	0.267	ug/Kg		02/07/22 10:31	02/16/22 10:37	1
Perfluorooctanesulfonic acid (PFOS)	0.133	U	0.762	0.133	ug/Kg		02/07/22 10:31	02/16/22 10:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 10:37	1
13C8 PFOS	105		70 - 130	02/07/22 10:31	02/16/22 10:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.132	U	1.67	0.132	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Arsenic	**2.88**	**J**	3.33	0.514	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Barium	**273**		3.33	0.289	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Beryllium	**0.178**	**J**	1.67	0.154	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Cadmium	0.0967	U	1.67	0.0967	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Chromium	**2.67**	**J**	3.33	0.226	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Copper	**1.49**	**J**	3.33	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Iron	**2390**		16.7	1.95	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Manganese	**25.0**		1.67	0.212	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Lead	**1.64**	**J**	1.67	0.161	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Antimony	**0.182**	**J**	1.67	0.0992	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Selenium	0.413	U	1.67	0.413	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Thallium	0.199	U	1.67	0.199	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Uranium	**0.398**	**J**	0.833	0.0498	mg/Kg		02/04/22 11:08	02/07/22 19:40	10
Zinc	**8.00**		3.33	0.369	mg/Kg		02/04/22 11:08	02/07/22 19:40	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0121**	**J**	0.0200	0.00384	mg/Kg		02/02/22 09:00	02/02/22 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.7	U	59.9	29.7	ug/Kg		02/09/22 15:50	02/09/22 17:38	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:05	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**118**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**1.55**		0.234	0.298	1.00	0.113	pCi/g	02/07/22 11:13	02/28/22 07:38	1
Radium-228	**0.319**		0.193	0.197		0.224	pCi/g	02/07/22 11:13	02/28/22 07:38	1
Combined Radium 226 + 228	**1.87**		0.303	0.357		0.224	pCi/g	02/07/22 11:13	02/28/22 07:38	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.716	U	4.90	0.716	ug/Kg			02/01/22 15:50	1
Chloromethane	1.18	U	4.90	1.18	ug/Kg			02/01/22 15:50	1
Vinyl chloride	0.588	U	4.90	0.588	ug/Kg			02/01/22 15:50	1
Bromomethane	1.08	U	4.90	1.08	ug/Kg			02/01/22 15:50	1
Trichlorofluoromethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Acrolein	8.43	U	49.0	8.43	ug/Kg			02/01/22 15:50	1
1,1-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
trans-1,2-Dichloroethene	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Methyl tert-butyl ether	0.598	U	4.90	0.598	ug/Kg			02/01/22 15:50	1
1,3-Dichlorobenzene	0.304	U	4.90	0.304	ug/Kg			02/01/22 15:50	1
Methylene Chloride	4.90	U	24.5	4.90	ug/Kg			02/01/22 15:50	1
Acrylonitrile	3.53	U	49.0	3.53	ug/Kg			02/01/22 15:50	1
cis-1,2-Dichloroethene	0.559	U	4.90	0.559	ug/Kg			02/01/22 15:50	1
Carbon tetrachloride	0.500	U	4.90	0.500	ug/Kg			02/01/22 15:50	1
Benzene	0.618	U	4.90	0.618	ug/Kg			02/01/22 15:50	1
1,2-Dichloroethane	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
Trichloroethene	0.275	U	4.90	0.275	ug/Kg			02/01/22 15:50	1
1,1,1-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
1,1-Dichloroethane	0.578	U	4.90	0.578	ug/Kg			02/01/22 15:50	1
1,2-Dichloropropane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
1,4-Dioxane	18.6	U	98.0	18.6	ug/Kg			02/01/22 15:50	1
Chloroform	0.853	U	4.90	0.853	ug/Kg			02/01/22 15:50	1
Bromodichloromethane	0.196	U	4.90	0.196	ug/Kg			02/01/22 15:50	1
1,1-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
cis-1,3-Dichloropropene	0.441	U	4.90	0.441	ug/Kg			02/01/22 15:50	1
Toluene	0.882	U	4.90	0.882	ug/Kg			02/01/22 15:50	1
trans-1,3-Dichloropropene	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
1,1,2-Trichloroethane	0.490	U	4.90	0.490	ug/Kg			02/01/22 15:50	1
Tetrachloroethene	0.725	U *	4.90	0.725	ug/Kg			02/01/22 15:50	1
1,3-Dichloropropene, Total	0.510	U	4.90	0.510	ug/Kg			02/01/22 15:50	1
1,2-Dibromoethane	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Monochlorobenzene	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Ethylbenzene	0.441	U	4.90	0.441	ug/Kg			02/01/22 15:50	1
Xylenes, Total	0.490	U	9.80	0.490	ug/Kg			02/01/22 15:50	1
Styrene	0.294	U	4.90	0.294	ug/Kg			02/01/22 15:50	1
Tribromomethane	0.500	U	4.90	0.500	ug/Kg			02/01/22 15:50	1
1,1,2,2-Tetrachloroethane	0.373	U	4.90	0.373	ug/Kg			02/01/22 15:50	1
1,4-Dichlorobenzene	0.314	U	4.90	0.314	ug/Kg			02/01/22 15:50	1
1,2-Dichlorobenzene	0.245	U	4.90	0.245	ug/Kg			02/01/22 15:50	1
1,2,4-Trichlorobenzene	0.951	U	4.90	0.951	ug/Kg			02/01/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*50 - 136*		*02/01/22 15:50*	*1*
4-Bromofluorobenzene (Surr)	*111*		*61 - 142*		*02/01/22 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 152*		*02/01/22 15:50*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 15:50*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 16:14	02/03/22 04:48	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128
Lab Sample ID: 860-19993-2
Date Collected: 01/28/22 09:10
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		63 - 144	02/01/22 16:14	02/03/22 04:48	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	82		30 - 164	02/10/22 13:33	02/14/22 23:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	172	U	1650	172	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
1,2,4,5-Tetrachlorobenzene	163	U	1650	163	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
1-Methylnaphthalene	265	U	1650	265	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
bis (2-chloroisopropyl) ether	176	U	1650	176	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4,5-Trichlorophenol	189	U	1650	189	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4,6-Trichlorophenol	156	U	1650	156	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4-Dinitrotoluene	126	U	1650	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dinitrophenols	240	U	3300	240	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,4-Dichlorophenol	173	U	1650	173	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2,6-Dinitrotoluene	231	U	1650	231	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dichlorobenzidine, 3,3'-	153	U	3300	153	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
4,6-Dinitro-2-methylphenol	126	U	3300	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Acenaphthene	154	U	1650	154	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Anthracene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Acenaphthylene	146	U	1650	146	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[a]anthracene	139	U	1650	139	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[b]fluoranthene	125	U	1650	125	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[k]fluoranthene	192	U	1650	192	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[g,h,i]perylene	152	U	1650	152	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzo[a]pyrene	171	U	1650	171	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Di (2-ethylhexyl)phthalate	1650	U	3300	1650	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Bis(2-chloroethyl)ether	151	U	1650	151	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Chrysene	164	U	1650	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dibutylphthalate	159	U	1650	159	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dibenz(a,h)anthracene	126	U	1650	126	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Diethyl phthalate	152	U	1650	152	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Dimethyl phthalate	157	U	1650	157	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Fluoranthene	146	U	1650	146	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Fluorene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorobenzene	161	U	1650	161	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorobutadiene	137	U	1650	137	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachlorocyclopentadiene	151	U	1650	151	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Hexachloroethane	171	U	1650	171	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Indeno[1,2,3-cd]pyrene	133	U	1650	133	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Isophorone	144	U	1650	144	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodi-n-butylamine	250	U	1650	250	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodiethylamine	217	U	1650	217	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodiphenylamine	185	U	1650	185	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosopyrrolidine	140	U	1650	140	ug/Kg		01/31/22 15:04	02/02/22 01:49	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	158	U	1650	158	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Pentachlorophenol	120	U	3300	120	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Phenanthrene	164	U	1650	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Pyrene	145	U	1650	145	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Naphthalene	155	U	1650	155	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
2-Methylnaphthalene	448	U	1650	448	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Nitrobenzene	183	U	1650	183	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Benzidine	120	U	3300	120	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Phenol	0.148	U	3.30	0.148	mg/Kg		01/31/22 15:04	02/02/22 01:49	10
N-Nitrosodimethylamine	166	U	1650	166	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Atrazine	164	U	3300	164	ug/Kg		01/31/22 15:04	02/02/22 01:49	10
Thiophene, tetrahydro-, 1,1-dioxide	3300	U	3300	3300	ug/Kg		01/31/22 15:04	02/02/22 01:49	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.61*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:49*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
2-Fluorophenol	*43*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
2,4,6-Tribromophenol	*44*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
Nitrobenzene-d5	*39*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
Phenol-d5 (Surr)	*41*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:49*	*10*
p-Terphenyl-d14 (Surr)	*51*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:49*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:43*	*1*
o-Terphenyl (Surr)	*79*		*65 - 130*	*02/03/22 13:11*	*02/03/22 16:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endrin	0.290	U	0.832	0.290	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		02/02/22 17:01	02/03/22 12:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.832	0.561	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		02/02/22 17:01	02/03/22 12:48	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 135*	*02/02/22 17:01*	*02/03/22 12:48*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*25 - 143*	*02/02/22 17:01*	*02/03/22 12:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1221	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1232	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1242	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1248	0.00395	U	0.0166	0.00395	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:10	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:10*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:10*	*1*

Method: 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	0.0925	0.0210	mg/Kg		02/07/22 15:28	02/11/22 05:28	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0398	U	0.185	0.0398	mg/Kg		02/07/22 15:28	02/11/22 05:28	1
2,4,6-Trinitrotoluene	0.0284	U	0.0925	0.0284	mg/Kg		02/07/22 15:28	02/11/22 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 05:28*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.53	U	9.96	3.53	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrate as N	**5.71**		0.996	0.108	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Fluoride	**6.20**		4.98	0.996	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrite as N	**0.519**	**J**	0.996	0.0498	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Nitrate Nitrite as N	**6.23**		0.996	0.108	mg/Kg		02/01/22 20:44	02/03/22 02:37	1
Sulfate	**60.8**		9.96	4.30	mg/Kg		02/01/22 20:44	02/03/22 02:37	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0763	U	0.463	0.0763	ug/Kg		02/07/22 14:51	02/08/22 16:21	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.217	U	0.753	0.217	ug/Kg		02/07/22 10:31	02/16/22 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.264	U	0.753	0.264	ug/Kg		02/07/22 10:31	02/16/22 10:46	1
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.753	0.132	ug/Kg		02/07/22 10:31	02/16/22 10:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128
Lab Sample ID: 860-19993-2
Date Collected: 01/28/22 09:10
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 10:46	1
13C8 PFOS	109		70 - 130	02/07/22 10:31	02/16/22 10:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.150	U	1.89	0.150	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Arsenic	**2.85**	**J**	3.77	0.582	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Barium	**143**		3.77	0.327	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Beryllium	0.175	U	1.89	0.175	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Cadmium	0.109	U	1.89	0.109	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Chromium	**2.20**	**J**	3.77	0.256	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Copper	**1.23**	**J**	3.77	0.246	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Iron	**1530**		18.9	2.21	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Manganese	**21.6**		1.89	0.240	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Lead	**1.04**	**J**	1.89	0.183	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Antimony	**0.158**	**J**	1.89	0.112	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Selenium	0.468	U	1.89	0.468	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Thallium	0.225	U	1.89	0.225	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Uranium	**0.354**	**J**	0.943	0.0564	mg/Kg		02/04/22 11:08	02/07/22 19:43	10
Zinc	**6.82**		3.77	0.418	mg/Kg		02/04/22 11:08	02/07/22 19:43	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0106**	**J**	0.0196	0.00377	mg/Kg		02/02/22 09:00	02/02/22 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	29.9	U	60.3	29.9	ug/Kg		02/09/22 15:50	02/09/22 17:39	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:07	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**114**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.975**		0.204	0.234	1.00	0.161	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Radium-228	-0.467	U	0.353	0.357		0.609	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Combined Radium 226 + 228	0.507	U	0.408	0.427		0.609	pCi/g	02/07/22 11:13	02/28/22 07:39	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19993-1	Cell21-Square58-5-3-4-220128	96	111	100	93
860-19993-2	Cell21-Square88-5-3-4-220128	99	111	103	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (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)
860-19993-1	Cell21-Square58-5-3-4-220128	105
860-19993-2	Cell21-Square88-5-3-4-220128	110
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19993-1	Cell21-Square58-5-3-4-220128	88
860-19993-2	Cell21-Square88-5-3-4-220128	82
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19993-1	Cell21-Square58-5-3-4-220128	84	76	67	69	71	90
860-19993-2	Cell21-Square88-5-3-4-220128	50	43	44	39	41	51
LCS 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19993-1	Cell21-Square58-5-3-4-220128	95	83
860-19993-2	Cell21-Square88-5-3-4-220128	91	79
LCS 860-40168/2-A	Lab Control Sample	90	83
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83
MB 860-40168/1-A	Method Blank	93	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19993-1	Cell21-Square58-5-3-4-220128	60	66
860-19993-2	Cell21-Square88-5-3-4-220128	72	72
LCS 860-40042/2-A	Lab Control Sample	80	98
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97
MB 860-40042/1-A	Method Blank	74	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)
860-19993-1	Cell21-Square58-5-3-4-220128	57	65
860-19993-2	Cell21-Square88-5-3-4-220128	67	79
LCS 860-40042/14-A	Lab Control Sample	81	87
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83
MB 860-40042/1-A	Method Blank	73	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-122)
860-19993-1	Cell21-Square58-5-3-4-220128	109
860-19993-2	Cell21-Square88-5-3-4-220128	106
LCS 280-565273/2-A	Lab Control Sample	104
MB 280-565273/1-A	Method Blank	106

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)
860-19993-1	Cell21-Square58-5-3-4-220128	104	105
860-19993-2	Cell21-Square88-5-3-4-220128	104	109
DLCK 280-556129/13	Lab Control Sample	98	105
LCS 280-565221/2-A	Lab Control Sample	103	109
MB 280-565221/1-A	Method Blank	104	104

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: 860-19993-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

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

Lab Sample ID: LCSD 560-192728/4
Matrix: Solid
Analysis Batch: 192728

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
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39639/1-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39639

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclopentadiene			1330	840.4		ug/Kg		63	16 - 106		
Hexachloroethane			1330	803.1		ug/Kg		60	36 - 121		
Indeno[1,2,3-cd]pyrene			1330	953.5		ug/Kg		72	39 - 154		
Isophorone			1330	832.7		ug/Kg		62	36 - 128		
N-Nitrosodi-n-butylamine			1330	1004		ug/Kg		75	34 - 135		
N-Nitrosodiethylamine			1330	829.3		ug/Kg		62	36 - 127		
N-Nitrosodiphenylamine			1330	882.4		ug/Kg		66	27 - 155		
N-Nitrosopyrrolidine			1330	891.2		ug/Kg		67	38 - 136		
Pentachlorobenzene			1330	839.4		ug/Kg		63	38 - 136		
Pentachlorophenol			1330	805.8		ug/Kg		60	14 - 148		
Phenanthrene			1330	838.2		ug/Kg		63	37 - 139		
Pyrene			1330	871.8		ug/Kg		65	42 - 138		
Naphthalene			1330	791.0		ug/Kg		59	35 - 128		
2-Methylnaphthalene			1330	822.6		ug/Kg		62	36 - 126		
Nitrobenzene			1330	829.2		ug/Kg		62	32 - 129		
Benzidine			1330	364.8		ug/Kg		27	12 - 112		
Phenol			1.33	0.8518		mg/Kg		64	34 - 127		
N-Nitrosodimethylamine			1330	792.4		ug/Kg		59	27 - 126		
Atrazine			1330	1094		ug/Kg		82	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	774.2		ug/Kg		58	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene			1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene			1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether			1330	850.2		ug/Kg		64	25 - 124	9	30
2,4,5-Trichlorophenol			1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene			1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols			1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol			1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene			1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-			1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol			1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene			1330	900.9		ug/Kg		68	37 - 131	11	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene			1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene			1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene			1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene			1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene			1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene			1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate			1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene			1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate			1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate			1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate			1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene			1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene			1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene			1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene			1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene			1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane			1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene			1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone			1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine			1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine			1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine			1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene			1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol			1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene			1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene			1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene			1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene			1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene			1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine			1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol			1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine			1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine			1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	828.0		ug/Kg		62	30 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*30 - 115*
2-Fluorophenol	*87*		*25 - 121*
2,4,6-Tribromophenol	*89*		*19 - 122*
Nitrobenzene-d5	*84*		*23 - 129*
Phenol-d5 (Surr)	*86*		*24 - 113*
p-Terphenyl-d14 (Surr)	*85*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 10:30*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*	*02/02/22 17:01*	*02/03/22 10:30*	*1*

Lab Sample ID: LCS 860-40042/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.00		ug/Kg		114	13 - 192		
Aldrin			16.7	15.48		ug/Kg		93	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.23		ug/Kg		97	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.71		ug/Kg		94	30 - 155		
Hexachlorocyclohexane, delta-			16.7	16.67		ug/Kg		100	20 - 161		
Dieldrin			16.7	16.54		ug/Kg		99	33 - 153		
Endosulfan I			16.7	16.10		ug/Kg		97	30 - 151		
Endosulfan II			16.7	16.72		ug/Kg		100	27 - 153		
Endosulfan sulfate			16.7	17.54		ug/Kg		105	15 - 170		
Endrin			16.7	16.76		ug/Kg		101	25 - 162		
Endrin aldehyde			16.7	16.07		ug/Kg		96	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	16.67		ug/Kg		100	30 - 158		
Heptachlor			16.7	16.14		ug/Kg		97	29 - 163		
Heptachlor epoxide			16.7	15.75		ug/Kg		94	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.60		ug/Kg		106	13 - 192	8	25

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-40042/3-A
Matrix: Solid
Analysis Batch: 40085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A
Matrix: Solid
Analysis Batch: 40154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A
Matrix: Solid
Analysis Batch: 40154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-40042/14-A
Matrix: Solid
Analysis Batch: 40154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40042

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Lab Sample ID: LCSD 860-40042/15-A
Matrix: Solid
Analysis Batch: 40154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565273

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	02/07/22 15:28	02/11/22 02:02	1

Lab Sample ID: LCS 280-565273/2-A
Matrix: Solid
Analysis Batch: 565765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565273

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	0.9626		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9928		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.035		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	104		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.2		mg/Kg		100	80 - 120
Nitrate as N	100	100.1		mg/Kg		100	80 - 120
Fluoride	100	102.1		mg/Kg		102	80 - 120
Nitrite as N	50.0	47.27		mg/Kg		95	80 - 120
Nitrate Nitrite as N	150	147.4		mg/Kg		98	80 - 120
Sulfate	100	99.86		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-39863/34-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N	100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride	100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate	100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565332/1-A
Matrix: Solid
Analysis Batch: 565538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565332/2-A
Matrix: Solid
Analysis Batch: 565538

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5210		ug/Kg		104	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13
Matrix: Solid
Analysis Batch: 556129

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565221/1-A
Matrix: Solid
Analysis Batch: 566231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A
Matrix: Solid
Analysis Batch: 566231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 565221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	19.34		ug/Kg		97	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.39		ug/Kg		96	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.15		ug/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-40290/3-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic	10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium	10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium	10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium	10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium	10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper	10.0	8.762		mg/Kg		88	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese	10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead	10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony	10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium	10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium	10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium	2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc	10.0	9.206		mg/Kg		92	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39891/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00384	U	0.0200	0.00384	mg/Kg		02/02/22 09:00	02/02/22 12:56	1

Lab Sample ID: LCS 860-39891/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.196	0.1996		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 860-39891/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.196	0.2002		mg/Kg		102	80 - 120	0	20

Lab Sample ID: 860-19993-1 MS **Client Sample ID: Cell21-Square58-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0121	J	0.189	0.1977		mg/Kg		98	75 - 125

Lab Sample ID: 860-19993-1 MSD **Client Sample ID: Cell21-Square58-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40004 **Prep Batch: 39891**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0121	J	0.189	0.1932		mg/Kg		96	75 - 125	2	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

Lab Sample ID: LLCS 860-40886/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40920 — **Prep Batch: 40886**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	50.0	52.26		ug/Kg		105	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2168		mg/L		96	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-549566/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 552703 — **Prep Batch: 549566**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04328	U	0.109	0.109	1.00	0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Radium-228	0.03606	U	0.121	0.121		0.225	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Combined Radium 226 + 228	-0.007223	U	0.163	0.163		0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549566/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552704 **Prep Batch: 549566**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	98.17		11.8		1.22	pCi/g	102	75 - 125
Cesium-137	26.0	26.58		3.23		0.184	pCi/g	102	75 - 125
Cobalt-60	8.07	8.153		1.01		0.0392	pCi/g	101	75 - 125

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	5035	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8260B	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3550C	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8270D	39639
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3546	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3550C	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	PFC leach	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6860	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6860	565332
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39891/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39891/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39891/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-19993-1 MS	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	
860-19993-1 MSD	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	

Analysis Batch: 40004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	7471A	39891
MB 860-39891/10-A	Method Blank	Total/NA	Solid	7471A	39891
LCS 860-39891/11-A	Lab Control Sample	Total/NA	Solid	7471A	39891
LCSD 860-39891/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39891
860-19993-1 MS	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891
860-19993-1 MSD	Cell21-Square58-5-3-4-220128	Total/NA	Solid	7471A	39891

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	3051A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9012A	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Soluble	Solid	DI Leach	
860-19993-2	Cell21-Square88-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Soluble	Solid	9045D	41396
860-19993-2	Cell21-Square88-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	9066	42223
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	9066	42223

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19993-2	Cell21-Square88-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19993-2	Cell21-Square88-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19993-1	Cell21-Square58-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19993-2	Cell21-Square88-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
MB 160-549566/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-549566/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square58-5-3-4-220128 **Lab Sample ID: 860-19993-1**
Date Collected: 01/28/22 08:30 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.13 g	5 mL	192728	02/01/22 15:25	RJD	XEN CC
Total/NA	Prep	5035			4.97 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:26	A1S	XEN STF
Total/NA	Prep	3550C			30.58 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:25	T1S	XEN STF
Total/NA	Prep	3546			15.42 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 22:38	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:23	T1S	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:34	WP	XEN STF
Total/NA	Prep	3550C			30.01 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:00	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.23 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 05:05	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:01	WP	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:01	WP	XEN STF
Total/NA	Prep	6860			10.24 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:16	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.5 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:37	AGCM	TAL DEN
Total/NA	Prep	3051A			.6 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:40	DCL	XEN STF
Total/NA	Prep	7471A			.50 g	50 mL	39891	02/02/22 09:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			40004	02/02/22 13:00	SHZ	XEN STF
Total/NA	Prep	9012A			0.5007 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:38	CM1	XEN STF
Soluble	Leach	DI Leach			20.16 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.16 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:05	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			292.5000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552703	02/28/22 07:38	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square88-5-3-4-220128 **Lab Sample ID: 860-19993-2**
Date Collected: 01/28/22 09:10 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	5 mL	192728	02/01/22 15:50	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 04:48	A1S	XEN STF
Total/NA	Prep	3550C			30.26 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:49	T1S	XEN STF
Total/NA	Prep	3546			15.23 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:04	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 16:43	T1S	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 12:48	WP	XEN STF
Total/NA	Prep	3550C			30.04 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:10	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.81 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 05:28	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.02 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:37	WP	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:37	WP	XEN STF
Total/NA	Prep	6860			10.8 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:21	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.62 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:46	AGCM	TAL DEN
Total/NA	Prep	3051A			.53 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:43	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39891	02/02/22 09:00	AGR	XEN STF
Total/NA	Analysis	7471A		1			40004	02/02/22 13:10	SHZ	XEN STF
Total/NA	Prep	9012A			0.4978 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:39	CM1	XEN STF
Soluble	Leach	DI Leach			20.04 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.04 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:07	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			324.2000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552704	02/28/22 07:39	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19993-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19993-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19993-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19993-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19993-1	Cell21-Square58-5-3-4-220128	Solid	01/28/22 08:30	01/29/22 09:40
860-19993-2	Cell21-Square88-5-3-4-220128	Solid	01/28/22 09:10	01/29/22 09:40

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Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

fins | Environment Testing America

860-19993 Chain of Custody

3-21039.1

Page 1-1

Client Information	Sampler: Tony Rodriguez	Lab PM: Kudchadkar Sachin G
Client Contact: Alison Schaffer	Phone: 432-559-5594	E-Mail: Sachin.Kudchadkar@Eurofin
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:		

Temp: 2.0 IR ID:HOU-323
C/F: +0.2
Corrected Temp: 2.2

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	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:																		
Cell 21-Square 58-S-3-4-220128	1/28/22	0830	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell 21-Square 58-S-3-4-220128	1/28/22	0910	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																	
				Solid																	
				Solid																	
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				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: Tony Rodriguez	Date/Time: 1/28/22 1700	Company: Arcadis	Received by: Sandra Lopez	Date/Time: 1/29/22 9:40	Company: Xenco
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:

Ver: 01/16/2019

Received by OCD: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

2/28/2022

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 13715 Rider Trail North,	Due Date Requested: 2/17/2022			
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, 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:						
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 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 out 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 complicance 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]	1/31/22 1900	Xenco	FED EX		
2	FED EX			[signature]	FEB 01 2022 0915	ETA STL
3				Autumn R. Johnson		

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
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, 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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	X	3	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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
	Sachin Dove	1/31/22 1900	Xenco			
	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: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 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 out 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 complicance 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]	1/31/22 1900	Xenco	Caitlyn Forrester	02/01/2022 1110	EX
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: 1.1 CG IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19993-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(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	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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square58-5-3-4-220128 (860-19993-1)	1/28/22	08:30 Central		Solid			X	X	1	
Cell21-Square88-5-3-4-220128 (860-19993-2)	1/28/22	09:10 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 out 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 complicance 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]	2/1/22 1900	Xenco	[signature]	2-2-22 12:23	FEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/3.6 IR-10 CF

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19993-1

Login Number: 19993 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	2.2
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: 860-19993-1

Login Number: 19993 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19993-1

Login Number: 19993 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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?	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").	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: 860-19993-1

Login Number: 19993 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19993-1

Login Number: 19993 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-19995-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
2/28/2022 8:03:50 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-19995-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
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 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
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	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.
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
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"

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-19995-1

Receipt
The samples were received on 1/29/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260B: The following analyte recovered outside control limits for the LCS associated with analytical batch 560-192728: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results 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
Method 8270D: The following samples were diluted due to the nature of the sample matrix: Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2). 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.

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

HPLC/IC
Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: ISM subsampling is required by the 8330B extraction SOP. As per client request, no ISM subsampling was performed on these samples.Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2) in preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: The following sample was air dried and sieved per the procedure; however, the sample contained material that would not pass through the sieve: Cell25-Square187-5-3-4-220128 (860-19995-1). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet. In preparation batch 280-565114 by Dry_Sample for 8330B_Sonc_10g / 8330B.

Method 8330B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client request, samples were not aliquotted using the ISM subsampling procedure as required by the 8330B extraction SOP. Cell25-Square187-5-3-4-220128 (860-19995-1) and Cell25-Square32-5-3-4-220128 (860-19995-2) in preparation batch 280-565114 and 280-565273 by 8330B_Sonc_10g for 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Metals

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.

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-549566Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210 Pb-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-224 U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Any 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. Cell25-Square187-5-3-4-220128 (860-19995-1), Cell25-Square32-5-3-4-220128 (860-19995-2), (LCS 160-549566/2-A), (MB 160-549566/1-A) and (860-19995-D-2-C DU)

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

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 Lab Sample ID: 860-19995-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	7.51		0.984	0.106	mg/Kg	1		9056A	Total/NA
Fluoride	2.54	J	4.92	0.984	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.644	J	0.984	0.0492	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	8.15		0.984	0.106	mg/Kg	1		9056A	Total/NA
Sulfate	88.6		9.84	4.25	mg/Kg	1		9056A	Total/NA
Arsenic	2.01	J	3.64	0.561	mg/Kg	10		6020A	Total/NA
Barium	139		3.64	0.315	mg/Kg	10		6020A	Total/NA
Beryllium	0.179	J	1.82	0.168	mg/Kg	10		6020A	Total/NA
Chromium	4.52		3.64	0.247	mg/Kg	10		6020A	Total/NA
Copper	1.72	J	3.64	0.237	mg/Kg	10		6020A	Total/NA
Iron	3280		18.2	2.13	mg/Kg	10		6020A	Total/NA
Manganese	30.6		1.82	0.231	mg/Kg	10		6020A	Total/NA
Lead	1.77	J	1.82	0.176	mg/Kg	10		6020A	Total/NA
Antimony	0.842	J	1.82	0.108	mg/Kg	10		6020A	Total/NA
Uranium	0.222	J	0.909	0.0543	mg/Kg	10		6020A	Total/NA
Zinc	9.97		3.64	0.402	mg/Kg	10		6020A	Total/NA
Mercury	0.00608	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	110		10.0	10.0	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell25-Square32-5-3-4-220128 Lab Sample ID: 860-19995-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.80	J	10.2	3.60	mg/Kg	1		9056A	Total/NA
Nitrate as N	3.40		1.02	0.110	mg/Kg	1		9056A	Total/NA
Fluoride	4.25	J	5.09	1.02	mg/Kg	1		9056A	Total/NA
Nitrite as N	0.369	J	1.02	0.0509	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	3.77		1.02	0.110	mg/Kg	1		9056A	Total/NA
Sulfate	48.4		10.2	4.40	mg/Kg	1		9056A	Total/NA
Arsenic	2.93	J	3.57	0.551	mg/Kg	10		6020A	Total/NA
Barium	46.5		3.57	0.310	mg/Kg	10		6020A	Total/NA
Beryllium	0.467	J	1.79	0.165	mg/Kg	10		6020A	Total/NA
Chromium	10.3		3.57	0.242	mg/Kg	10		6020A	Total/NA
Copper	2.66	J	3.57	0.233	mg/Kg	10		6020A	Total/NA
Iron	8850		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	55.8		1.79	0.227	mg/Kg	10		6020A	Total/NA
Lead	4.86		1.79	0.173	mg/Kg	10		6020A	Total/NA
Antimony	0.493	J	1.79	0.106	mg/Kg	10		6020A	Total/NA
Uranium	0.196	J	0.893	0.0534	mg/Kg	10		6020A	Total/NA
Zinc	21.7		3.57	0.395	mg/Kg	10		6020A	Total/NA
Mercury	0.00696	J	0.0196	0.00377	mg/Kg	1		7471A	Total/NA
Cyanide, Total	42.0	J	59.7	29.6	ug/Kg	1		9012A	Total/NA
pH	8.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	96.0		10.0	10.0	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. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.652	U	4.46	0.652	ug/Kg			02/01/22 16:15	1
Chloromethane	1.07	U	4.46	1.07	ug/Kg			02/01/22 16:15	1
Vinyl chloride	0.536	U	4.46	0.536	ug/Kg			02/01/22 16:15	1
Bromomethane	0.982	U	4.46	0.982	ug/Kg			02/01/22 16:15	1
Trichlorofluoromethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Acrolein	7.68	U	44.6	7.68	ug/Kg			02/01/22 16:15	1
1,1-Dichloroethene	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
trans-1,2-Dichloroethene	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Methyl tert-butyl ether	0.545	U	4.46	0.545	ug/Kg			02/01/22 16:15	1
1,3-Dichlorobenzene	0.277	U	4.46	0.277	ug/Kg			02/01/22 16:15	1
Methylene Chloride	4.46	U	22.3	4.46	ug/Kg			02/01/22 16:15	1
Acrylonitrile	3.21	U	44.6	3.21	ug/Kg			02/01/22 16:15	1
cis-1,2-Dichloroethene	0.509	U	4.46	0.509	ug/Kg			02/01/22 16:15	1
Carbon tetrachloride	0.455	U	4.46	0.455	ug/Kg			02/01/22 16:15	1
Benzene	0.563	U	4.46	0.563	ug/Kg			02/01/22 16:15	1
1,2-Dichloroethane	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
Trichloroethene	0.250	U	4.46	0.250	ug/Kg			02/01/22 16:15	1
1,1,1-Trichloroethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
1,1-Dichloroethane	0.527	U	4.46	0.527	ug/Kg			02/01/22 16:15	1
1,2-Dichloropropane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
1,4-Dioxane	17.0	U	89.3	17.0	ug/Kg			02/01/22 16:15	1
Chloroform	0.777	U	4.46	0.777	ug/Kg			02/01/22 16:15	1
Bromodichloromethane	0.179	U	4.46	0.179	ug/Kg			02/01/22 16:15	1
1,1-Dichloropropene	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
cis-1,3-Dichloropropene	0.402	U	4.46	0.402	ug/Kg			02/01/22 16:15	1
Toluene	0.804	U	4.46	0.804	ug/Kg			02/01/22 16:15	1
trans-1,3-Dichloropropene	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
1,1,2-Trichloroethane	0.446	U	4.46	0.446	ug/Kg			02/01/22 16:15	1
Tetrachloroethene	0.661	U *	4.46	0.661	ug/Kg			02/01/22 16:15	1
1,3-Dichloropropene, Total	0.464	U	4.46	0.464	ug/Kg			02/01/22 16:15	1
1,2-Dibromoethane	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Monochlorobenzene	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Ethylbenzene	0.402	U	4.46	0.402	ug/Kg			02/01/22 16:15	1
Xylenes, Total	0.446	U	8.93	0.446	ug/Kg			02/01/22 16:15	1
Styrene	0.268	U	4.46	0.268	ug/Kg			02/01/22 16:15	1
Tribromomethane	0.455	U	4.46	0.455	ug/Kg			02/01/22 16:15	1
1,1,2,2-Tetrachloroethane	0.339	U	4.46	0.339	ug/Kg			02/01/22 16:15	1
1,4-Dichlorobenzene	0.286	U	4.46	0.286	ug/Kg			02/01/22 16:15	1
1,2-Dichlorobenzene	0.223	U	4.46	0.223	ug/Kg			02/01/22 16:15	1
1,2,4-Trichlorobenzene	0.866	U	4.46	0.866	ug/Kg			02/01/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 16:15*	*1*
4-Bromofluorobenzene (Surr)	*113*		*61 - 142*		*02/01/22 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*02/01/22 16:15*	*1*
Toluene-d8 (Surr)	*92*		*65 - 139*		*02/01/22 16:15*	*1*

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00253	U	0.00505	0.00253	mg/Kg		02/01/22 16:14	02/03/22 05:10	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128
Lab Sample ID: 860-19995-1
Date Collected: 01/28/22 09:40
Matrix: Solid
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*	*02/01/22 16:14*	*02/03/22 05:10*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.5	11.9	ug/Kg		02/10/22 13:33	02/14/22 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*85*		*30 - 164*	*02/10/22 13:33*	*02/14/22 23:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	174	U	1670	174	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
1,2,4,5-Tetrachlorobenzene	165	U	1670	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
1-Methylnaphthalene	267	U	1670	267	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
bis (2-chloroisopropyl) ether	178	U	1670	178	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4,5-Trichlorophenol	190	U	1670	190	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4,6-Trichlorophenol	157	U	1670	157	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4-Dinitrotoluene	127	U	1670	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dinitrophenols	242	U	3330	242	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,4-Dichlorophenol	174	U	1670	174	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2,6-Dinitrotoluene	233	U	1670	233	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dichlorobenzidine, 3,3'-	154	U	3330	154	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
4,6-Dinitro-2-methylphenol	127	U	3330	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Acenaphthene	155	U	1670	155	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Anthracene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Acenaphthylene	148	U	1670	148	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[a]anthracene	141	U	1670	141	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[b]fluoranthene	126	U	1670	126	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[k]fluoranthene	193	U	1670	193	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[g,h,i]perylene	153	U	1670	153	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzo[a]pyrene	172	U	1670	172	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Di (2-ethylhexyl)phthalate	1670	U	3330	1670	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Bis(2-chloroethyl)ether	152	U	1670	152	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Chrysene	165	U	1670	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dibutylphthalate	160	U	1670	160	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dibenz(a,h)anthracene	127	U	1670	127	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Diethyl phthalate	153	U	1670	153	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Dimethyl phthalate	159	U	1670	159	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Fluoranthene	147	U	1670	147	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Fluorene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorobenzene	162	U	1670	162	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorobutadiene	138	U	1670	138	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachlorocyclopentadiene	152	U	1670	152	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Hexachloroethane	173	U	1670	173	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Indeno[1,2,3-cd]pyrene	134	U	1670	134	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Isophorone	145	U	1670	145	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodi-n-butylamine	252	U	1670	252	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodiethylamine	219	U	1670	219	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodiphenylamine	186	U	1670	186	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosopyrrolidine	141	U	1670	141	ug/Kg		01/31/22 15:04	02/02/22 00:37	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	159	U	1670	159	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Pentachlorophenol	121	U	3330	121	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Phenanthrene	166	U	1670	166	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Pyrene	146	U	1670	146	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Naphthalene	156	U	1670	156	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
2-Methylnaphthalene	451	U	1670	451	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Nitrobenzene	185	U	1670	185	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Benzidine	121	U	3330	121	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Phenol	0.150	U	3.33	0.150	mg/Kg		01/31/22 15:04	02/02/22 00:37	10
N-Nitrosodimethylamine	167	U	1670	167	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Atrazine	165	U	3330	165	ug/Kg		01/31/22 15:04	02/02/22 00:37	10
Thiophene, tetrahydro-, 1,1-dioxide	3330	U	3330	3330	ug/Kg		01/31/22 15:04	02/02/22 00:37	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.66*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 00:37*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*30 - 115*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
2-Fluorophenol	*92*		*25 - 121*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
2,4,6-Tribromophenol	*84*		*19 - 122*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
Nitrobenzene-d5	*85*		*23 - 129*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
Phenol-d5 (Surr)	*93*		*24 - 113*	*01/31/22 15:04*	*02/02/22 00:37*	*10*
p-Terphenyl-d14 (Surr)	*104*		*18 - 137*	*01/31/22 15:04*	*02/02/22 00:37*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:03*	*1*
o-Terphenyl (Surr)	*77*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.831	0.253	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Aldrin	0.362	U	0.831	0.362	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, alpha-	0.678	U	0.831	0.678	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, beta-	0.472	U	0.831	0.472	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Chlordane (technical)	23.8	U	41.6	23.8	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, delta-	0.831	U	0.831	0.831	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Dieldrin	0.169	U	0.831	0.169	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan I	0.201	U	0.831	0.201	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan II	0.371	U	0.831	0.371	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endosulfan sulfate	0.275	U	0.831	0.275	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endrin	0.290	U	0.831	0.290	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Endrin aldehyde	0.247	U	0.831	0.247	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Hexachlorocyclohexane, gamma-	0.438	U	0.831	0.438	ug/Kg		02/02/22 17:01	02/03/22 11:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.561	U	0.831	0.561	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Heptachlor epoxide	0.244	U	0.831	0.244	ug/Kg		02/02/22 17:01	02/03/22 11:39	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 135*	*02/02/22 17:01*	*02/03/22 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*25 - 143*	*02/02/22 17:01*	*02/03/22 11:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:19	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:19*	*1*

Method: 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	0.0212	U	0.0932	0.0212	mg/Kg		02/07/22 15:28	02/11/22 06:14	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.186	0.0401	mg/Kg		02/07/22 15:28	02/11/22 06:14	1
2,4,6-Trinitrotoluene	0.0286	U	0.0932	0.0286	mg/Kg		02/07/22 15:28	02/11/22 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 06:14*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.48	U	9.84	3.48	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrate as N	**7.51**		0.984	0.106	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Fluoride	**2.54**	**J**	4.92	0.984	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrite as N	**0.644**	**J**	0.984	0.0492	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Nitrate Nitrite as N	**8.15**		0.984	0.106	mg/Kg		02/01/22 20:44	02/03/22 02:48	1
Sulfate	**88.6**		9.84	4.25	mg/Kg		02/01/22 20:44	02/03/22 02:48	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0797	U	0.484	0.0797	ug/Kg		02/07/22 14:51	02/08/22 16:27	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.220	U	0.764	0.220	ug/Kg		02/07/22 10:31	02/16/22 10:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.764	0.267	ug/Kg		02/07/22 10:31	02/16/22 10:55	1
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.764	0.134	ug/Kg		02/07/22 10:31	02/16/22 10:55	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	02/07/22 10:31	02/16/22 10:55	1
13C8 PFOS	103		70 - 130	02/07/22 10:31	02/16/22 10:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.144	U	1.82	0.144	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Arsenic	**2.01**	**J**	3.64	0.561	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Barium	**139**		3.64	0.315	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Beryllium	**0.179**	**J**	1.82	0.168	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Cadmium	0.105	U	1.82	0.105	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Chromium	**4.52**		3.64	0.247	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Copper	**1.72**	**J**	3.64	0.237	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Iron	**3280**		18.2	2.13	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Manganese	**30.6**		1.82	0.231	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Lead	**1.77**	**J**	1.82	0.176	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Antimony	**0.842**	**J**	1.82	0.108	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Selenium	0.451	U	1.82	0.451	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Thallium	0.217	U	1.82	0.217	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Uranium	**0.222**	**J**	0.909	0.0543	mg/Kg		02/04/22 11:08	02/07/22 19:50	10
Zinc	**9.97**		3.64	0.402	mg/Kg		02/04/22 11:08	02/07/22 19:50	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00608**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	28.6	U	57.6	28.6	ug/Kg		02/09/22 15:50	02/09/22 17:41	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:10	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**110**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.400**		0.125	0.134	1.00	0.114	pCi/g	02/07/22 11:13	02/28/22 07:40	1
Radium-228	**0.268**		0.215	0.218		0.250	pCi/g	02/07/22 11:13	02/28/22 07:40	1
Combined Radium 226 + 228	**0.667**		0.249	0.256		0.250	pCi/g	02/07/22 11:13	02/28/22 07:40	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.666	U	4.56	0.666	ug/Kg			02/01/22 16:40	1
Chloromethane	1.09	U	4.56	1.09	ug/Kg			02/01/22 16:40	1
Vinyl chloride	0.547	U	4.56	0.547	ug/Kg			02/01/22 16:40	1
Bromomethane	1.00	U	4.56	1.00	ug/Kg			02/01/22 16:40	1
Trichlorofluoromethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Acrolein	7.85	U	45.6	7.85	ug/Kg			02/01/22 16:40	1
1,1-Dichloroethene	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
trans-1,2-Dichloroethene	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Methyl tert-butyl ether	0.557	U	4.56	0.557	ug/Kg			02/01/22 16:40	1
1,3-Dichlorobenzene	0.283	U	4.56	0.283	ug/Kg			02/01/22 16:40	1
Methylene Chloride	4.56	U	22.8	4.56	ug/Kg			02/01/22 16:40	1
Acrylonitrile	3.28	U	45.6	3.28	ug/Kg			02/01/22 16:40	1
cis-1,2-Dichloroethene	0.520	U	4.56	0.520	ug/Kg			02/01/22 16:40	1
Carbon tetrachloride	0.465	U	4.56	0.465	ug/Kg			02/01/22 16:40	1
Benzene	0.575	U	4.56	0.575	ug/Kg			02/01/22 16:40	1
1,2-Dichloroethane	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
Trichloroethene	0.255	U	4.56	0.255	ug/Kg			02/01/22 16:40	1
1,1,1-Trichloroethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
1,1-Dichloroethane	0.538	U	4.56	0.538	ug/Kg			02/01/22 16:40	1
1,2-Dichloropropane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
1,4-Dioxane	17.3	U	91.2	17.3	ug/Kg			02/01/22 16:40	1
Chloroform	0.794	U	4.56	0.794	ug/Kg			02/01/22 16:40	1
Bromodichloromethane	0.182	U	4.56	0.182	ug/Kg			02/01/22 16:40	1
1,1-Dichloropropene	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
cis-1,3-Dichloropropene	0.411	U	4.56	0.411	ug/Kg			02/01/22 16:40	1
Toluene	0.821	U	4.56	0.821	ug/Kg			02/01/22 16:40	1
trans-1,3-Dichloropropene	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
1,1,2-Trichloroethane	0.456	U	4.56	0.456	ug/Kg			02/01/22 16:40	1
Tetrachloroethene	0.675	U *	4.56	0.675	ug/Kg			02/01/22 16:40	1
1,3-Dichloropropene, Total	0.474	U	4.56	0.474	ug/Kg			02/01/22 16:40	1
1,2-Dibromoethane	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Monochlorobenzene	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Ethylbenzene	0.411	U	4.56	0.411	ug/Kg			02/01/22 16:40	1
Xylenes, Total	0.456	U	9.12	0.456	ug/Kg			02/01/22 16:40	1
Styrene	0.274	U	4.56	0.274	ug/Kg			02/01/22 16:40	1
Tribromomethane	0.465	U	4.56	0.465	ug/Kg			02/01/22 16:40	1
1,1,2,2-Tetrachloroethane	0.347	U	4.56	0.347	ug/Kg			02/01/22 16:40	1
1,4-Dichlorobenzene	0.292	U	4.56	0.292	ug/Kg			02/01/22 16:40	1
1,2-Dichlorobenzene	0.228	U	4.56	0.228	ug/Kg			02/01/22 16:40	1
1,2,4-Trichlorobenzene	0.885	U	4.56	0.885	ug/Kg			02/01/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*50 - 136*		*02/01/22 16:40*	*1*
4-Bromofluorobenzene (Surr)	*110*		*61 - 142*		*02/01/22 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 152*		*02/01/22 16:40*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 16:40*	*1*

Method: 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		02/01/22 16:14	02/03/22 05:31	1

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*	*02/01/22 16:14*	*02/03/22 05:31*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	65.0	11.8	ug/Kg		02/10/22 13:33	02/14/22 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*78*		*30 - 164*	*02/10/22 13:33*	*02/14/22 23:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	170	U	1630	170	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
1,2,4,5-Tetrachlorobenzene	161	U	1630	161	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
1-Methylnaphthalene	262	U	1630	262	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
bis (2-chloroisopropyl) ether	174	U	1630	174	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4,5-Trichlorophenol	187	U	1630	187	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4,6-Trichlorophenol	154	U	1630	154	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4-Dinitrotoluene	125	U	1630	125	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dinitrophenols	237	U	3270	237	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,4-Dichlorophenol	171	U	1630	171	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2,6-Dinitrotoluene	228	U	1630	228	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dichlorobenzidine, 3,3'-	151	U	3270	151	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
4,6-Dinitro-2-methylphenol	125	U	3270	125	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Acenaphthene	152	U	1630	152	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Anthracene	135	U	1630	135	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Acenaphthylene	145	U	1630	145	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[a]anthracene	138	U	1630	138	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[b]fluoranthene	123	U	1630	123	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[k]fluoranthene	190	U	1630	190	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[g,h,i]perylene	150	U	1630	150	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzo[a]pyrene	169	U	1630	169	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Di (2-ethylhexyl)phthalate	1630	U	3270	1630	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Bis(2-chloroethyl)ether	149	U	1630	149	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Chrysene	162	U	1630	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dibutylphthalate	157	U	1630	157	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dibenz(a,h)anthracene	124	U	1630	124	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Diethyl phthalate	150	U	1630	150	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Dimethyl phthalate	156	U	1630	156	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Fluoranthene	144	U	1630	144	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Fluorene	136	U	1630	136	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorobenzene	159	U	1630	159	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorobutadiene	136	U	1630	136	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachlorocyclopentadiene	149	U	1630	149	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Hexachloroethane	169	U	1630	169	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Indeno[1,2,3-cd]pyrene	132	U	1630	132	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Isophorone	142	U	1630	142	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodi-n-butylamine	247	U	1630	247	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodiethylamine	215	U	1630	215	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodiphenylamine	182	U	1630	182	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosopyrrolidine	138	U	1630	138	ug/Kg		01/31/22 15:04	02/02/22 01:01	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	156	U	1630	156	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Pentachlorophenol	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Phenanthrene	162	U	1630	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Pyrene	143	U	1630	143	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Naphthalene	153	U	1630	153	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
2-Methylnaphthalene	443	U	1630	443	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Nitrobenzene	181	U	1630	181	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Benzidine	119	U	3270	119	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Phenol	0.147	U	3.27	0.147	mg/Kg		01/31/22 15:04	02/02/22 01:01	10
N-Nitrosodimethylamine	164	U	1630	164	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Atrazine	162	U	3270	162	ug/Kg		01/31/22 15:04	02/02/22 01:01	10
Thiophene, tetrahydro-, 1,1-dioxide	3260	U	3270	3260	ug/Kg		01/31/22 15:04	02/02/22 01:01	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*6.53*	*U*	*mg/Kg*			*542-88-1*	*01/31/22 15:04*	*02/02/22 01:01*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*30 - 115*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
2-Fluorophenol	*89*		*25 - 121*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
2,4,6-Tribromophenol	*76*		*19 - 122*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
Nitrobenzene-d5	*81*		*23 - 129*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
Phenol-d5 (Surr)	*85*		*24 - 113*	*01/31/22 15:04*	*02/02/22 01:01*	*10*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/02/22 01:01*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1
OII Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:43*	*1*
o-Terphenyl (Surr)	*78*		*65 - 130*	*02/03/22 13:11*	*02/03/22 17:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.830	0.253	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Aldrin	0.361	U	0.830	0.361	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, alpha-	0.677	U	0.830	0.677	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, beta-	0.472	U	0.830	0.472	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Chlordane (technical)	23.8	U	41.5	23.8	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, delta-	0.830	U	0.830	0.830	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Dieldrin	0.169	U	0.830	0.169	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan I	0.201	U	0.830	0.201	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan II	0.371	U	0.830	0.371	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endosulfan sulfate	0.275	U	0.830	0.275	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endrin	0.290	U	0.830	0.290	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Endrin aldehyde	0.246	U	0.830	0.246	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Hexachlorocyclohexane, gamma-	0.437	U	0.830	0.437	ug/Kg		02/02/22 17:01	02/03/22 11:53	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.560	U	0.830	0.560	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Heptachlor epoxide	0.244	U	0.830	0.244	ug/Kg		02/02/22 17:01	02/03/22 11:53	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		02/02/22 17:01	02/03/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 135*	*02/02/22 17:01*	*02/03/22 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*02/02/22 17:01*	*02/03/22 11:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:29	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		02/02/22 17:01	02/03/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 140*	*02/02/22 17:01*	*02/03/22 14:29*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 14:29*	*1*

Method: 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		02/07/22 15:28	02/11/22 06:37	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		02/07/22 15:28	02/11/22 06:37	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		02/07/22 15:28	02/11/22 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*02/07/22 15:28*	*02/11/22 06:37*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.80**	**J**	10.2	3.60	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrate as N	**3.40**		1.02	0.110	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Fluoride	**4.25**	**J**	5.09	1.02	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrite as N	**0.369**	**J**	1.02	0.0509	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Nitrate Nitrite as N	**3.77**		1.02	0.110	mg/Kg		02/01/22 20:44	02/03/22 03:00	1
Sulfate	**48.4**		10.2	4.40	mg/Kg		02/01/22 20:44	02/03/22 03:00	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0805	U	0.488	0.0805	ug/Kg		02/07/22 14:51	02/08/22 16:32	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.223	U	0.777	0.223	ug/Kg		02/07/22 10:31	02/16/22 11:03	1
Perfluorohexanesulfonic acid (PFHxS)	0.272	U	0.777	0.272	ug/Kg		02/07/22 10:31	02/16/22 11:03	1
Perfluorooctanesulfonic acid (PFOS)	0.136	U	0.777	0.136	ug/Kg		02/07/22 10:31	02/16/22 11:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128 **Lab Sample ID: 860-19995-2**
Date Collected: 01/28/22 10:06 **Matrix: Solid**
Date Received: 01/29/22 09:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	02/07/22 10:31	02/16/22 11:03	1
13C8 PFOS	106		70 - 130	02/07/22 10:31	02/16/22 11:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.142	U	1.79	0.142	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Arsenic	**2.93**	**J**	3.57	0.551	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Barium	**46.5**		3.57	0.310	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Beryllium	**0.467**	**J**	1.79	0.165	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Cadmium	0.104	U	1.79	0.104	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Chromium	**10.3**		3.57	0.242	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Copper	**2.66**	**J**	3.57	0.233	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Iron	**8850**		17.9	2.09	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Manganese	**55.8**		1.79	0.227	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Lead	**4.86**		1.79	0.173	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Antimony	**0.493**	**J**	1.79	0.106	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Selenium	0.443	U	1.79	0.443	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Thallium	0.213	U	1.79	0.213	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Uranium	**0.196**	**J**	0.893	0.0534	mg/Kg		02/04/22 11:08	02/07/22 19:53	10
Zinc	**21.7**		3.57	0.395	mg/Kg		02/04/22 11:08	02/07/22 19:53	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00696**	**J**	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**42.0**	**J**	59.7	29.6	ug/Kg		02/09/22 15:50	02/09/22 17:45	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		02/21/22 10:17	02/21/22 14:13	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**			SU			02/14/22 14:32	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**96.0**		10.0	10.0	mg/L			02/10/22 15:50	1

Method: 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	**0.522**		0.167	0.178	1.00	0.140	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Radium-228	**0.642**		0.281	0.291		0.249	pCi/g	02/07/22 11:13	02/28/22 07:39	1
Combined Radium 226 + 228	**1.16**		0.327	0.341		0.249	pCi/g	02/07/22 11:13	02/28/22 07:39	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DBFM	BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(50-136)	(61-142)	(65-152)	(65-139)
860-19995-1	Cell25-Square187-5-3-4-220128	98	113	101	92
860-19995-2	Cell25-Square32-5-3-4-220128	98	110	101	93
LCS 560-192728/3	Lab Control Sample	97	117	94	96
LCSD 560-192728/4	Lab Control Sample Dup	98	116	96	95
MB 560-192728/7	Method Blank	97	109	99	93

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (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)
860-19995-1	Cell25-Square187-5-3-4-220128	99
860-19995-2	Cell25-Square32-5-3-4-220128	100
LCS 860-40051/11	Lab Control Sample	101
LCSD 860-40051/12	Lab Control Sample Dup	102
MB 860-40051/16	Method Blank	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-19995-1	Cell25-Square187-5-3-4-220128	85
860-19995-2	Cell25-Square32-5-3-4-220128	78
LCS 400-566137/2-A	Lab Control Sample	98
MB 400-566137/1-A	Method Blank	95

Surrogate Legend

TPP = Triphenylphosphate

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)
860-19995-1	Cell25-Square187-5-3-4-220128	100	92	84	85	93	104
860-19995-2	Cell25-Square32-5-3-4-220128	96	89	76	81	85	98
LCS 860-39639/2-A	Lab Control Sample	75	79	85	77	80	82
LCSD 860-39639/3-A	Lab Control Sample Dup	82	87	89	84	86	85
MB 860-39639/1-A	Method Blank	88	93	85	86	89	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-19995-1	Cell25-Square187-5-3-4-220128	89	77
860-19995-2	Cell25-Square32-5-3-4-220128	89	78
LCS 860-40168/2-A	Lab Control Sample	90	83
LCSD 860-40168/3-A	Lab Control Sample Dup	88	83
MB 860-40168/1-A	Method Blank	93	82

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-19995-1	Cell25-Square187-5-3-4-220128	78	77
860-19995-1 MS	Cell25-Square187-5-3-4-220128	71	76
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	62	76
860-19995-2	Cell25-Square32-5-3-4-220128	67	79
LCS 860-40042/2-A	Lab Control Sample	80	98
LCSD 860-40042/3-A	Lab Control Sample Dup	81	97
MB 860-40042/1-A	Method Blank	74	97

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

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)
860-19995-1	Cell25-Square187-5-3-4-220128	72	87
860-19995-2	Cell25-Square32-5-3-4-220128	63	81
LCS 860-40042/14-A	Lab Control Sample	81	87
LCSD 860-40042/15-A	Lab Control Sample Dup	79	83
MB 860-40042/1-A	Method Blank	73	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

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)							
860-19995-1	Cell25-Square187-5-3-4-220128	106							
860-19995-2	Cell25-Square32-5-3-4-220128	106							
LCS 280-565273/2-A	Lab Control Sample	104							
MB 280-565273/1-A	Method Blank	106							

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)						
860-19995-1	Cell25-Square187-5-3-4-220128	103	103						
860-19995-2	Cell25-Square32-5-3-4-220128	104	106						
DLCK 280-556129/13	Lab Control Sample	98	105						
LCS 280-565221/2-A	Lab Control Sample	103	109						
MB 280-565221/1-A	Method Blank	104	104						

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: 860-19995-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-192728/7
Matrix: Solid
Analysis Batch: 192728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.730	U	5.00	0.730	ug/Kg			02/01/22 12:08	1
Chloromethane	1.20	U	5.00	1.20	ug/Kg			02/01/22 12:08	1
Vinyl chloride	0.600	U	5.00	0.600	ug/Kg			02/01/22 12:08	1
Bromomethane	1.10	U	5.00	1.10	ug/Kg			02/01/22 12:08	1
Trichlorofluoromethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Acrolein	8.60	U	50.0	8.60	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
trans-1,2-Dichloroethene	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Methyl tert-butyl ether	0.610	U	5.00	0.610	ug/Kg			02/01/22 12:08	1
1,3-Dichlorobenzene	0.310	U	5.00	0.310	ug/Kg			02/01/22 12:08	1
Methylene Chloride	5.00	U	25.0	5.00	ug/Kg			02/01/22 12:08	1
Acrylonitrile	3.60	U	50.0	3.60	ug/Kg			02/01/22 12:08	1
cis-1,2-Dichloroethene	0.570	U	5.00	0.570	ug/Kg			02/01/22 12:08	1
Carbon tetrachloride	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
Benzene	0.630	U	5.00	0.630	ug/Kg			02/01/22 12:08	1
1,2-Dichloroethane	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
Trichloroethene	0.280	U	5.00	0.280	ug/Kg			02/01/22 12:08	1
1,1,1-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,1-Dichloroethane	0.590	U	5.00	0.590	ug/Kg			02/01/22 12:08	1
1,2-Dichloropropane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
1,4-Dioxane	19.0	U	100	19.0	ug/Kg			02/01/22 12:08	1
Chloroform	0.870	U	5.00	0.870	ug/Kg			02/01/22 12:08	1
Bromodichloromethane	0.200	U	5.00	0.200	ug/Kg			02/01/22 12:08	1
1,1-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
cis-1,3-Dichloropropene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Toluene	0.900	U	5.00	0.900	ug/Kg			02/01/22 12:08	1
trans-1,3-Dichloropropene	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,1,2-Trichloroethane	0.500	U	5.00	0.500	ug/Kg			02/01/22 12:08	1
Tetrachloroethene	0.740	U	5.00	0.740	ug/Kg			02/01/22 12:08	1
1,3-Dichloropropene, Total	0.520	U	5.00	0.520	ug/Kg			02/01/22 12:08	1
1,2-Dibromoethane	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Monochlorobenzene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Ethylbenzene	0.450	U	5.00	0.450	ug/Kg			02/01/22 12:08	1
Xylenes, Total	0.500	U	10.0	0.500	ug/Kg			02/01/22 12:08	1
Styrene	0.300	U	5.00	0.300	ug/Kg			02/01/22 12:08	1
Tribromomethane	0.510	U	5.00	0.510	ug/Kg			02/01/22 12:08	1
1,1,2,2-Tetrachloroethane	0.380	U	5.00	0.380	ug/Kg			02/01/22 12:08	1
1,4-Dichlorobenzene	0.320	U	5.00	0.320	ug/Kg			02/01/22 12:08	1
1,2-Dichlorobenzene	0.250	U	5.00	0.250	ug/Kg			02/01/22 12:08	1
1,2,4-Trichlorobenzene	0.970	U	5.00	0.970	ug/Kg			02/01/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*50 - 136*		*02/01/22 12:08*	*1*
4-Bromofluorobenzene (Surr)	*109*		*61 - 142*		*02/01/22 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 152*		*02/01/22 12:08*	*1*
Toluene-d8 (Surr)	*93*		*65 - 139*		*02/01/22 12:08*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

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

Lab Sample ID: LCS 560-192728/3
Matrix: Solid
Analysis Batch: 192728

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	40.0	27.81		ug/Kg		70	13 - 130
Chloromethane	40.0	28.56		ug/Kg		71	61 - 137
Vinyl chloride	40.0	30.74		ug/Kg		77	65 - 139
Bromomethane	40.0	30.04		ug/Kg		75	57 - 155
Trichlorofluoromethane	40.0	31.28		ug/Kg		78	68 - 146
Acrolein	395	349.8		ug/Kg		89	20 - 150
1,1-Dichloroethene	40.0	33.11		ug/Kg		83	70 - 130
trans-1,2-Dichloroethene	40.0	33.40		ug/Kg		84	70 - 132
Methyl tert-butyl ether	40.0	33.60		ug/Kg		84	70 - 130
1,3-Dichlorobenzene	40.0	33.01		ug/Kg		83	70 - 130
Methylene Chloride	40.0	34.04		ug/Kg		85	61 - 150
Acrylonitrile	400	333.9		ug/Kg		83	66 - 137
cis-1,2-Dichloroethene	40.0	33.88		ug/Kg		85	70 - 130
Carbon tetrachloride	40.0	30.63		ug/Kg		77	70 - 136
Benzene	40.0	33.74		ug/Kg		84	70 - 131
1,2-Dichloroethane	40.0	29.88		ug/Kg		75	70 - 130
Trichloroethene	40.0	31.51		ug/Kg		79	70 - 130
1,1,1-Trichloroethane	40.0	31.67		ug/Kg		79	70 - 132
1,1-Dichloroethane	40.0	32.61		ug/Kg		82	70 - 130
1,2-Dichloropropane	40.0	34.10		ug/Kg		85	70 - 130
1,4-Dioxane	800	661.1		ug/Kg		83	10 - 150
Chloroform	40.0	31.62		ug/Kg		79	70 - 130
Bromodichloromethane	40.0	32.99		ug/Kg		82	70 - 130
1,1-Dichloropropene	40.0	35.04		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	40.0	30.48		ug/Kg		76	70 - 130
Toluene	40.0	30.62		ug/Kg		77	70 - 130
trans-1,3-Dichloropropene	40.0	31.78		ug/Kg		79	70 - 131
1,1,2-Trichloroethane	40.0	31.02		ug/Kg		78	70 - 130
Tetrachloroethene	40.0	26.38	*	ug/Kg		66	70 - 130
1,3-Dichloropropene, Total	80.0	62.26		ug/Kg		78	
1,2-Dibromoethane	40.0	29.65		ug/Kg		74	70 - 130
Monochlorobenzene	40.0	29.60		ug/Kg		74	70 - 130
Ethylbenzene	40.0	32.94		ug/Kg		82	70 - 130
Xylenes, Total	80.0	68.53		ug/Kg		86	70 - 130
Styrene	40.0	33.32		ug/Kg		83	70 - 130
Tribromomethane	40.0	26.32		ug/Kg		66	59 - 137
1,1,2,2-Tetrachloroethane	40.0	35.87		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	40.0	31.78		ug/Kg		79	70 - 130
1,2-Dichlorobenzene	40.0	33.18		ug/Kg		83	70 - 130
1,2,4-Trichlorobenzene	40.0	35.30		ug/Kg		88	68 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*50 - 136*
4-Bromofluorobenzene (Surr)	*117*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 152*
Toluene-d8 (Surr)	*96*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

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

Lab Sample ID: LCSD 560-192728/4
Matrix: Solid
Analysis Batch: 192728

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
Dichlorodifluoromethane			40.0	29.94		ug/Kg		75	13 - 130	7	30.0
Chloromethane			40.0	31.79		ug/Kg		79	61 - 137	11	30.0
Vinyl chloride			40.0	34.81		ug/Kg		87	65 - 139	12	30.0
Bromomethane			40.0	34.71		ug/Kg		87	57 - 155	14	30.0
Trichlorofluoromethane			40.0	36.85		ug/Kg		92	68 - 146	16	30.0
Acrolein			395	418.2		ug/Kg		106	20 - 150	18	30.0
1,1-Dichloroethene			40.0	39.62		ug/Kg		99	70 - 130	18	30.0
trans-1,2-Dichloroethene			40.0	39.09		ug/Kg		98	70 - 132	16	30.0
Methyl tert-butyl ether			40.0	40.41		ug/Kg		101	70 - 130	18	30.0
1,3-Dichlorobenzene			40.0	37.58		ug/Kg		94	70 - 130	13	30.0
Methylene Chloride			40.0	39.98		ug/Kg		100	61 - 150	16	30.0
Acrylonitrile			400	401.8		ug/Kg		100	66 - 137	18	30.0
cis-1,2-Dichloroethene			40.0	39.65		ug/Kg		99	70 - 130	16	30.0
Carbon tetrachloride			40.0	35.76		ug/Kg		89	70 - 136	15	30.0
Benzene			40.0	39.78		ug/Kg		99	70 - 131	16	30.0
1,2-Dichloroethane			40.0	35.30		ug/Kg		88	70 - 130	17	30.0
Trichloroethene			40.0	37.56		ug/Kg		94	70 - 130	18	30.0
1,1,1-Trichloroethane			40.0	35.61		ug/Kg		89	70 - 132	12	30.0
1,1-Dichloroethane			40.0	38.37		ug/Kg		96	70 - 130	16	30.0
1,2-Dichloropropane			40.0	40.38		ug/Kg		101	70 - 130	17	30.0
1,4-Dioxane			800	881.6		ug/Kg		110	10 - 150	29	30.0
Chloroform			40.0	36.89		ug/Kg		92	70 - 130	15	30.0
Bromodichloromethane			40.0	39.29		ug/Kg		98	70 - 130	17	30.0
1,1-Dichloropropene			40.0	40.73		ug/Kg		102	70 - 130	15	30.0
cis-1,3-Dichloropropene			40.0	35.87		ug/Kg		90	70 - 130	16	30.0
Toluene			40.0	35.67		ug/Kg		89	70 - 130	15	30.0
trans-1,3-Dichloropropene			40.0	38.22		ug/Kg		96	70 - 131	18	30.0
1,1,2-Trichloroethane			40.0	37.05		ug/Kg		93	70 - 130	18	30.0
Tetrachloroethene			40.0	29.91		ug/Kg		75	70 - 130	13	30.0
1,3-Dichloropropene, Total			80.0	74.09		ug/Kg		93		17	30
1,2-Dibromoethane			40.0	36.02		ug/Kg		90	70 - 130	19	30.0
Monochlorobenzene			40.0	34.31		ug/Kg		86	70 - 130	15	30.0
Ethylbenzene			40.0	38.55		ug/Kg		96	70 - 130	16	30.0
Xylenes, Total			80.0	80.97		ug/Kg		101	70 - 130	17	30.0
Styrene			40.0	39.35		ug/Kg		98	70 - 130	17	30.0
Tribromomethane			40.0	31.27		ug/Kg		78	59 - 137	17	30.0
1,1,2,2-Tetrachloroethane			40.0	41.83		ug/Kg		105	70 - 130	15	30.0
1,4-Dichlorobenzene			40.0	36.37		ug/Kg		91	70 - 130	13	30.0
1,2-Dichlorobenzene			40.0	37.66		ug/Kg		94	70 - 130	13	30.0
1,2,4-Trichlorobenzene			40.0	38.56		ug/Kg		96	68 - 140	9	30.0

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*50 - 136*
4-Bromofluorobenzene (Surr)	*116*		*61 - 142*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 152*
Toluene-d8 (Surr)	*95*		*65 - 139*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-40051/16 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

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			02/03/22 00:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*02/03/22 00:47*	*1*

Lab Sample ID: LCS 860-40051/11 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane (P-Dioxane)			0.0500	0.05356		mg/Kg		107	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*

Lab Sample ID: LCSD 860-40051/12 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 40051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane (P-Dioxane)			0.0500	0.05670		mg/Kg		113	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-566137/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		02/10/22 13:25	02/14/22 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*02/10/22 13:25*	*02/14/22 17:25*	*1*

Lab Sample ID: LCS 400-566137/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 566465 — **Prep Batch: 566137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	313.3		ug/Kg		94	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*98*		*30 - 164*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

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		01/31/22 15:04	02/01/22 21:02	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Anthracene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Chrysene	16.5	U	167	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Fluorene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Isophorone	14.5	U	167	14.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Pyrene	14.6	U	167	14.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Naphthalene	15.6	U	167	15.6	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Benzidine	12.1	U	333	12.1	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		01/31/22 15:04	02/01/22 21:02	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-39639/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Atrazine	16.5	U	333	16.5	ug/Kg		01/31/22 15:04	02/01/22 21:02	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		01/31/22 15:04	02/01/22 21:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*30 - 115*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2-Fluorophenol	*93*		*25 - 121*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
2,4,6-Tribromophenol	*85*		*19 - 122*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Nitrobenzene-d5	*86*		*23 - 129*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
Phenol-d5 (Surr)	*89*		*24 - 113*	*01/31/22 15:04*	*02/01/22 21:02*	*1*
p-Terphenyl-d14 (Surr)	*98*		*18 - 137*	*01/31/22 15:04*	*02/01/22 21:02*	*1*

Lab Sample ID: LCS 860-39639/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	874.6		ug/Kg		66	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	808.2		ug/Kg		61	35 - 135
1-Methylnaphthalene	1330	816.4		ug/Kg		61	38 - 127
bis (2-chloroisopropyl) ether	1330	779.8		ug/Kg		58	25 - 124
2,4,5-Trichlorophenol	1330	927.5		ug/Kg		70	40 - 135
2,4,6-Trichlorophenol	1330	892.7		ug/Kg		67	39 - 139
2,4-Dinitrotoluene	1330	853.2		ug/Kg		64	48 - 131
Dinitrophenols	1330	850.2		ug/Kg		64	19 - 131
2,4-Dichlorophenol	1330	894.4		ug/Kg		67	36 - 135
2,6-Dinitrotoluene	1330	949.9		ug/Kg		71	42 - 136
Dichlorobenzidine, 3,3'-	1330	738.8		ug/Kg		55	35 - 134
4,6-Dinitro-2-methylphenol	1330	859.4		ug/Kg		64	30 - 146
Acenaphthene	1330	809.3		ug/Kg		61	37 - 131
Anthracene	1330	891.3		ug/Kg		67	39 - 139
Acenaphthylene	1330	846.2		ug/Kg		63	39 - 129
Benzo[a]anthracene	1330	850.8		ug/Kg		64	44 - 135
Benzo[b]fluoranthene	1330	903.2		ug/Kg		68	40 - 153
Benzo[k]fluoranthene	1330	929.8		ug/Kg		70	33 - 156
Benzo[g,h,i]perylene	1330	950.8		ug/Kg		71	40 - 153
Benzo[a]pyrene	1330	968.4		ug/Kg		73	43 - 153
Di (2-ethylhexyl)phthalate	1330	813.5		ug/Kg		61	46 - 145
Bis(2-chloroethyl)ether	1330	782.9		ug/Kg		59	33 - 127
Chrysene	1330	829.6		ug/Kg		62	42 - 135
Dibutylphthalate	1330	989.1		ug/Kg		74	43 - 142
Dibenz(a,h)anthracene	1330	938.2		ug/Kg		70	41 - 155
Diethyl phthalate	1330	880.2		ug/Kg		66	45 - 131
Dimethyl phthalate	1330	852.7		ug/Kg		64	43 - 132
Fluoranthene	1330	919.1		ug/Kg		69	41 - 138
Fluorene	1330	841.1		ug/Kg		63	41 - 131
Hexachlorobenzene	1330	850.7		ug/Kg		64	36 - 142
Hexachlorobutadiene	1330	790.6		ug/Kg		59	35 - 129

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-39639/2-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclopentadiene			1330	840.4		ug/Kg		63	16 - 106		
Hexachloroethane			1330	803.1		ug/Kg		60	36 - 121		
Indeno[1,2,3-cd]pyrene			1330	953.5		ug/Kg		72	39 - 154		
Isophorone			1330	832.7		ug/Kg		62	36 - 128		
N-Nitrosodi-n-butylamine			1330	1004		ug/Kg		75	34 - 135		
N-Nitrosodiethylamine			1330	829.3		ug/Kg		62	36 - 127		
N-Nitrosodiphenylamine			1330	882.4		ug/Kg		66	27 - 155		
N-Nitrosopyrrolidine			1330	891.2		ug/Kg		67	38 - 136		
Pentachlorobenzene			1330	839.4		ug/Kg		63	38 - 136		
Pentachlorophenol			1330	805.8		ug/Kg		60	14 - 148		
Phenanthrene			1330	838.2		ug/Kg		63	37 - 139		
Pyrene			1330	871.8		ug/Kg		65	42 - 138		
Naphthalene			1330	791.0		ug/Kg		59	35 - 128		
2-Methylnaphthalene			1330	822.6		ug/Kg		62	36 - 126		
Nitrobenzene			1330	829.2		ug/Kg		62	32 - 129		
Benzidine			1330	364.8		ug/Kg		27	12 - 112		
Phenol			1.33	0.8518		mg/Kg		64	34 - 127		
N-Nitrosodimethylamine			1330	792.4		ug/Kg		59	27 - 126		
Atrazine			1330	1094		ug/Kg		82	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	774.2		ug/Kg		58	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*79*		*25 - 121*
2,4,6-Tribromophenol	*85*		*19 - 122*
Nitrobenzene-d5	*77*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*82*		*18 - 137*

Lab Sample ID: LCSD 860-39639/3-A
Matrix: Solid
Analysis Batch: 39861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39639

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	959.6		ug/Kg		72	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene			1330	897.1		ug/Kg		67	35 - 135	10	30
1-Methylnaphthalene			1330	888.9		ug/Kg		67	38 - 127	9	30
bis (2-chloroisopropyl) ether			1330	850.2		ug/Kg		64	25 - 124	9	30
2,4,5-Trichlorophenol			1330	1033		ug/Kg		77	40 - 135	11	30
2,4,6-Trichlorophenol			1330	1019		ug/Kg		76	39 - 139	13	30
2,4-Dinitrotoluene			1330	933.1		ug/Kg		70	48 - 131	9	30
Dinitrophenols			1330	941.5		ug/Kg		71	19 - 131	10	40
2,4-Dichlorophenol			1330	981.5		ug/Kg		74	36 - 135	9	30
2,6-Dinitrotoluene			1330	1054		ug/Kg		79	42 - 136	10	30
Dichlorobenzidine, 3,3'-			1330	796.1		ug/Kg		60	35 - 134	7	40
4,6-Dinitro-2-methylphenol			1330	938.7		ug/Kg		70	30 - 146	9	40
Acenaphthene			1330	900.9		ug/Kg		68	37 - 131	11	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-39639/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39861 **Prep Batch: 39639**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			1330	957.3		ug/Kg		72	39 - 139	7	30
Acenaphthylene			1330	947.1		ug/Kg		71	39 - 129	11	30
Benzo[a]anthracene			1330	930.5		ug/Kg		70	44 - 135	9	30
Benzo[b]fluoranthene			1330	961.1		ug/Kg		72	40 - 153	6	30
Benzo[k]fluoranthene			1330	1010		ug/Kg		76	33 - 156	8	30
Benzo[g,h,i]perylene			1330	1034		ug/Kg		78	40 - 153	8	30
Benzo[a]pyrene			1330	1042		ug/Kg		78	43 - 153	7	30
Di (2-ethylhexyl)phthalate			1330	872.8		ug/Kg		65	46 - 145	7	30
Bis(2-chloroethyl)ether			1330	861.0		ug/Kg		65	33 - 127	9	30
Chrysene			1330	898.5		ug/Kg		67	42 - 135	8	30
Dibutylphthalate			1330	1061		ug/Kg		80	43 - 142	7	30
Dibenz(a,h)anthracene			1330	1022		ug/Kg		77	41 - 155	9	30
Diethyl phthalate			1330	960.3		ug/Kg		72	45 - 131	9	30
Dimethyl phthalate			1330	940.1		ug/Kg		71	43 - 132	10	30
Fluoranthene			1330	994.2		ug/Kg		75	41 - 138	8	30
Fluorene			1330	936.7		ug/Kg		70	41 - 131	11	30
Hexachlorobenzene			1330	918.1		ug/Kg		69	36 - 142	8	30
Hexachlorobutadiene			1330	879.5		ug/Kg		66	35 - 129	11	30
Hexachlorocyclopentadiene			1330	941.9		ug/Kg		71	16 - 106	11	30
Hexachloroethane			1330	874.6		ug/Kg		66	36 - 121	9	30
Indeno[1,2,3-cd]pyrene			1330	1047		ug/Kg		79	39 - 154	9	30
Isophorone			1330	910.5		ug/Kg		68	36 - 128	9	30
N-Nitrosodi-n-butylamine			1330	1098		ug/Kg		82	34 - 135	9	30
N-Nitrosodiethylamine			1330	932.0		ug/Kg		70	36 - 127	12	30
N-Nitrosodiphenylamine			1330	973.6		ug/Kg		73	27 - 155	10	30
N-Nitrosopyrrolidine			1330	981.1		ug/Kg		74	38 - 136	10	30
Pentachlorobenzene			1330	935.9		ug/Kg		70	38 - 136	11	30
Pentachlorophenol			1330	931.9		ug/Kg		70	14 - 148	15	40
Phenanthrene			1330	908.2		ug/Kg		68	37 - 139	8	30
Pyrene			1330	927.4		ug/Kg		70	42 - 138	6	30
Naphthalene			1330	873.4		ug/Kg		66	35 - 128	10	30
2-Methylnaphthalene			1330	903.5		ug/Kg		68	36 - 126	9	30
Nitrobenzene			1330	923.8		ug/Kg		69	32 - 129	11	30
Benzidine			1330	322.1	J	ug/Kg		24	12 - 112	12	40
Phenol			1.33	0.9432		mg/Kg		71	34 - 127	10	40
N-Nitrosodimethylamine			1330	883.0		ug/Kg		66	27 - 126	11	30
Atrazine			1330	1171		ug/Kg		88	18 - 134	7	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	828.0		ug/Kg		62	30 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*30 - 115*
2-Fluorophenol	*87*		*25 - 121*
2,4,6-Tribromophenol	*89*		*19 - 122*
Nitrobenzene-d5	*84*		*23 - 129*
Phenol-d5 (Surr)	*86*		*24 - 113*
p-Terphenyl-d14 (Surr)	*85*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: MB 860-40168/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		02/03/22 13:11	02/03/22 14:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*
o-Terphenyl (Surr)	*82*		*65 - 130*	*02/03/22 13:11*	*02/03/22 14:42*	*1*

Lab Sample ID: LCS 860-40168/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	994	950.3		mg/Kg		96	70 - 135
Diesel Range Organics (Over C10-C28)	996	912.0		mg/Kg		92	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Lab Sample ID: LCSD 860-40168/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40117 **Prep Batch: 40168**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	994	950.2		mg/Kg		96	70 - 135	0	35
Diesel Range Organics (Over C10-C28)	996	927.1		mg/Kg		93	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*65 - 130*
o-Terphenyl (Surr)	*83*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin	0.291	U	0.833	0.291	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		02/02/22 17:01	02/03/22 10:30	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		02/02/22 17:01	02/03/22 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 135*	*02/02/22 17:01*	*02/03/22 10:30*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*	*02/02/22 17:01*	*02/03/22 10:30*	*1*

Lab Sample ID: LCS 860-40042/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DDT			16.7	19.00		ug/Kg		114	13 - 192		
Aldrin			16.7	15.48		ug/Kg		93	30 - 152		
Hexachlorocyclohexane, alpha-			16.7	16.23		ug/Kg		97	29 - 160		
Hexachlorocyclohexane, beta-			16.7	15.71		ug/Kg		94	30 - 155		
Hexachlorocyclohexane, delta-			16.7	16.67		ug/Kg		100	20 - 161		
Dieldrin			16.7	16.54		ug/Kg		99	33 - 153		
Endosulfan I			16.7	16.10		ug/Kg		97	30 - 151		
Endosulfan II			16.7	16.72		ug/Kg		100	27 - 153		
Endosulfan sulfate			16.7	17.54		ug/Kg		105	15 - 170		
Endrin			16.7	16.76		ug/Kg		101	25 - 162		
Endrin aldehyde			16.7	16.07		ug/Kg		96	49 - 117		
Hexachlorocyclohexane, gamma-			16.7	16.67		ug/Kg		100	30 - 158		
Heptachlor			16.7	16.14		ug/Kg		97	29 - 163		
Heptachlor epoxide			16.7	15.75		ug/Kg		94	30 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*98*		*25 - 143*

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT			16.7	17.60		ug/Kg		106	13 - 192	8	25

Eurofins Houston

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-40042/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.7	15.39		ug/Kg		92	30 - 152	1	25
Hexachlorocyclohexane, alpha-			16.7	16.97		ug/Kg		102	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	16.46		ug/Kg		99	30 - 155	5	25
Hexachlorocyclohexane, delta-			16.7	17.35		ug/Kg		104	20 - 161	4	25
Dieldrin			16.7	16.24		ug/Kg		97	33 - 153	2	25
Endosulfan I			16.7	15.92		ug/Kg		95	30 - 151	1	25
Endosulfan II			16.7	16.55		ug/Kg		99	27 - 153	1	25
Endosulfan sulfate			16.7	17.33		ug/Kg		104	15 - 170	1	25
Endrin			16.7	15.76		ug/Kg		95	25 - 162	6	25
Endrin aldehyde			16.7	16.02		ug/Kg		96	49 - 117	0	25
Hexachlorocyclohexane, gamma-			16.7	17.18		ug/Kg		103	30 - 158	3	25
Heptachlor			16.7	17.49		ug/Kg		105	29 - 163	8	25
Heptachlor epoxide			16.7	15.65		ug/Kg		94	30 - 150	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*97*		*25 - 143*

Lab Sample ID: 860-19995-1 MS **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DDT	0.253	U	16.6	16.40		ug/Kg		99	13 - 192
Aldrin	0.362	U	16.6	13.12		ug/Kg		79	30 - 152
Hexachlorocyclohexane, alpha-	0.678	U	16.6	13.93		ug/Kg		84	29 - 160
Hexachlorocyclohexane, beta-	0.472	U	16.6	13.98		ug/Kg		84	30 - 155
Hexachlorocyclohexane, delta-	0.831	U	16.6	14.47		ug/Kg		87	20 - 161
Dieldrin	0.169	U	16.6	14.23		ug/Kg		86	33 - 153
Endosulfan I	0.201	U	16.6	13.84		ug/Kg		83	30 - 151
Endosulfan II	0.371	U	16.6	14.32		ug/Kg		86	27 - 153
Endosulfan sulfate	0.275	U	16.6	14.99		ug/Kg		90	15 - 170
Endrin	0.290	U	16.6	14.98		ug/Kg		90	25 - 162
Endrin aldehyde	0.247	U	16.6	13.28		ug/Kg		80	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.6	14.33		ug/Kg		86	30 - 158
Heptachlor	0.561	U	16.6	13.94		ug/Kg		84	29 - 163
Heptachlor epoxide	0.244	U	16.6	13.55		ug/Kg		82	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*76*		*25 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-19995-1 MSD **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40085 **Prep Batch: 40042**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DDT	0.253	U	16.7	17.75		ug/Kg		107	13 - 192	8	25
Aldrin	0.362	U	16.7	12.67		ug/Kg		76	30 - 152	3	25
Hexachlorocyclohexane, alpha-	0.678	U	16.7	13.06		ug/Kg		78	29 - 160	6	25
Hexachlorocyclohexane, beta-	0.472	U	16.7	14.07		ug/Kg		84	30 - 155	1	25
Hexachlorocyclohexane, delta-	0.831	U	16.7	14.51		ug/Kg		87	20 - 161	0	25
Dieldrin	0.169	U	16.7	14.41		ug/Kg		86	33 - 153	1	25
Endosulfan I	0.201	U	16.7	13.96		ug/Kg		84	30 - 151	1	25
Endosulfan II	0.371	U	16.7	14.71		ug/Kg		88	27 - 153	3	25
Endosulfan sulfate	0.275	U	16.7	15.43		ug/Kg		93	15 - 170	3	25
Endrin	0.290	U	16.7	15.51		ug/Kg		93	25 - 162	4	25
Endrin aldehyde	0.247	U	16.7	13.36		ug/Kg		80	49 - 117	1	25
Hexachlorocyclohexane, gamma-	0.438	U	16.7	13.85		ug/Kg		83	30 - 158	3	25
Heptachlor	0.561	U	16.7	13.86		ug/Kg		83	29 - 163	1	25
Heptachlor epoxide	0.244	U	16.7	13.58		ug/Kg		82	30 - 150	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*76*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-40042/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		02/02/22 17:01	02/03/22 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*35 - 140*	*02/02/22 17:01*	*02/03/22 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*02/02/22 17:01*	*02/03/22 13:13*	*1*

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.167	0.1576		mg/Kg		94	27 - 121		
Aroclor 1260			0.167	0.1512		mg/Kg		91	27 - 139		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-40042/14-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		35 - 140
DCB Decachlorobiphenyl (Surr)	87		37 - 142

Lab Sample ID: LCSD 860-40042/15-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40154 **Prep Batch: 40042**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1527		mg/Kg		92	27 - 121	3	20
Aroclor 1260			0.166	0.1461		mg/Kg		88	27 - 139	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	79		35 - 140
DCB Decachlorobiphenyl (Surr)	83		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-565273/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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		02/07/22 15:28	02/11/22 02:02	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		02/07/22 15:28	02/11/22 02:02	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		02/07/22 15:28	02/11/22 02:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	02/07/22 15:28	02/11/22 02:02	1

Lab Sample ID: LCS 280-565273/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565765 **Prep Batch: 565273**

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	0.9626		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9928		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.035		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	104		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-39863/32-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Fluoride	1.00	U	5.00	1.00	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		02/01/22 20:43	02/03/22 00:14	1
Sulfate	4.32	U	10.0	4.32	mg/Kg		02/01/22 20:43	02/03/22 00:14	1

Lab Sample ID: LCS 860-39863/33-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.2		mg/Kg		100	80 - 120
Nitrate as N	100	100.1		mg/Kg		100	80 - 120
Fluoride	100	102.1		mg/Kg		102	80 - 120
Nitrite as N	50.0	47.27		mg/Kg		95	80 - 120
Nitrate Nitrite as N	150	147.4		mg/Kg		98	80 - 120
Sulfate	100	99.86		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-39863/34-A
Matrix: Solid
Analysis Batch: 40032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39863

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.9		mg/Kg		101	80 - 120	1	20
Nitrate as N	100	100.3		mg/Kg		100	80 - 120	0	20
Fluoride	100	102.5		mg/Kg		103	80 - 120	0	20
Nitrite as N	50.0	47.17		mg/Kg		94	80 - 120	0	20
Nitrate Nitrite as N	150	147.5		mg/Kg		98	80 - 120	0	20
Sulfate	100	99.95		mg/Kg		100	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-564802/12
Matrix: Solid
Analysis Batch: 564802

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04711	J	ug/L		94	70 - 130

Lab Sample ID: MB 280-565332/1-A
Matrix: Solid
Analysis Batch: 565538

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 565332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		02/07/22 14:51	02/08/22 15:45	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-565332/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 565538 **Prep Batch: 565332**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5210		ug/Kg		104	80 - 120

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-556129/13 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 556129

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.490	U	ug/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4417	J	ug/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		95	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*98*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: MB 280-565221/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		02/07/22 10:31	02/16/22 09:44	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		02/07/22 10:31	02/16/22 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*02/07/22 10:31*	*02/16/22 09:44*	*1*
13C8 PFOS	*104*		*70 - 130*	*02/07/22 10:31*	*02/16/22 09:44*	*1*

Lab Sample ID: LCS 280-565221/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 566231 **Prep Batch: 565221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	19.34		ug/Kg		97	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.39		ug/Kg		96	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	17.15		ug/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*109*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-19995-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-40290/1-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Iron	0.230	U	1.96	0.230	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		02/04/22 11:08	02/07/22 19:05	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		02/04/22 11:08	02/07/22 19:05	1

Lab Sample ID: LCS 860-40290/2-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	4.81	4.772		mg/Kg		99	80 - 120
Arsenic	9.62	8.596		mg/Kg		89	80 - 120
Barium	9.62	8.620		mg/Kg		90	80 - 120
Beryllium	9.62	8.517		mg/Kg		89	80 - 120
Cadmium	9.62	8.661		mg/Kg		90	80 - 120
Chromium	9.62	8.582		mg/Kg		89	80 - 120
Copper	9.62	8.540		mg/Kg		89	80 - 120
Iron	48.1	40.92		mg/Kg		85	80 - 120
Manganese	9.62	8.813		mg/Kg		92	80 - 120
Lead	9.62	8.542		mg/Kg		89	80 - 120
Antimony	9.62	9.150		mg/Kg		95	80 - 120
Selenium	9.62	8.591		mg/Kg		89	80 - 120
Thallium	9.62	8.670		mg/Kg		90	80 - 120
Uranium	2.40	2.122		mg/Kg		88	80 - 120
Zinc	9.62	8.983		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 860-40290/3-A
Matrix: Solid
Analysis Batch: 40589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	5.00	4.977		mg/Kg		100	80 - 120	4	20
Arsenic	10.0	8.962		mg/Kg		90	80 - 120	4	20
Barium	10.0	9.089		mg/Kg		91	80 - 120	5	20
Beryllium	10.0	8.789		mg/Kg		88	80 - 120	3	20
Cadmium	10.0	9.036		mg/Kg		90	80 - 120	4	20
Chromium	10.0	8.782		mg/Kg		88	80 - 120	2	20
Copper	10.0	8.762		mg/Kg		88	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-40290/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40589 **Prep Batch: 40290**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	50.0	41.22		mg/Kg		82	80 - 120	1	20
Manganese	10.0	8.931		mg/Kg		89	80 - 120	1	20
Lead	10.0	8.865		mg/Kg		89	80 - 120	4	20
Antimony	10.0	9.621		mg/Kg		96	80 - 120	5	20
Selenium	10.0	9.025		mg/Kg		90	80 - 120	5	20
Thallium	10.0	8.984		mg/Kg		90	80 - 120	4	20
Uranium	2.50	2.223		mg/Kg		89	80 - 120	5	20
Zinc	10.0	9.206		mg/Kg		92	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-39690/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00377	U	0.0196	0.00377	mg/Kg		02/01/22 08:30	02/01/22 12:23	1

Lab Sample ID: LCS 860-39690/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.192	0.1814		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-39690/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 39840 **Prep Batch: 39690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.192	0.1813		mg/Kg		94	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-40886/22-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		02/09/22 15:50	02/09/22 17:14	1

Lab Sample ID: LCS 860-40886/23-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	100	102.7		ug/Kg		103	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 860-40886/24-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	52.26		ug/Kg		105	90 - 110		

Lab Sample ID: 860-19995-1 MS **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	28.6	U	2350	871.4	N1	ug/Kg		37	90 - 110		

Lab Sample ID: 860-19995-1 MSD **Client Sample ID: Cell25-Square187-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 40920 **Prep Batch: 40886**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	28.6	U	2340	845.3	N1	ug/Kg		36	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-193044/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			02/10/22 15:50	1

Lab Sample ID: LCS 560-193044/2 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 193044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2250	2168		mg/L		96	90 - 110		

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-549566/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552703 **Prep Batch: 549566**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04328	U	0.109	0.109	1.00	0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Radium-228	0.03606	U	0.121	0.121		0.225	pCi/g	02/07/22 11:13	02/28/22 08:17	1
Combined Radium 226 + 228	-0.007223	U	0.163	0.163		0.430	pCi/g	02/07/22 11:13	02/28/22 08:17	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-549566/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552704 **Prep Batch: 549566**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.2	98.17		11.8		1.22	pCi/g	102	75 - 125
Cesium-137	26.0	26.58		3.23		0.184	pCi/g	102	75 - 125
Cobalt-60	8.07	8.153		1.01		0.0392	pCi/g	101	75 - 125

Lab Sample ID: 860-19995-2 DU **Client Sample ID: Cell25-Square32-5-3-4-220128**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 552697 **Prep Batch: 549566**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.522		0.4846		0.151	1.00	0.144	pCi/g	0.11	1
Radium-228	0.642		0.7397		0.256		0.397	pCi/g	0.18	1
Combined Radium 226 + 228	1.16		1.224		0.297		0.397	pCi/g	0.09	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 39768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	5035	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	5035	

Analysis Batch: 40051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8260D SIM	39768
MB 860-40051/16	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-40051/11	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-40051/12	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

Analysis Batch: 192728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8260B	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8260B	
MB 560-192728/7	Method Blank	Total/NA	Solid	8260B	
LCS 560-192728/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 560-192728/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 39639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-39639/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 39861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8270D	39639
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8270D	39639
MB 860-39639/1-A	Method Blank	Total/NA	Solid	8270D	39639
LCS 860-39639/2-A	Lab Control Sample	Total/NA	Solid	8270D	39639
LCSD 860-39639/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	39639

Prep Batch: 566137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3546	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3546	
MB 400-566137/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 566465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8270D	566137
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8270D	566137
MB 400-566137/1-A	Method Blank	Total/NA	Solid	8270D	566137
LCS 400-566137/2-A	Lab Control Sample	Total/NA	Solid	8270D	566137

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Prep Batch: 40042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3550C	
MB 860-40042/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3550C	

Analysis Batch: 40085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8081B	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8081B	40042
LCS 860-40042/2-A	Lab Control Sample	Total/NA	Solid	8081B	40042
LCSD 860-40042/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	40042
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8081B	40042

Analysis Batch: 40117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8015B NM	40168
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8015B NM	40168
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015B NM	40168
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40168
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40168

Analysis Batch: 40154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8082A	40042
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8082A	40042
MB 860-40042/1-A	Method Blank	Total/NA	Solid	8082A	40042
LCS 860-40042/14-A	Lab Control Sample	Total/NA	Solid	8082A	40042
LCSD 860-40042/15-A	Lab Control Sample Dup	Total/NA	Solid	8082A	40042

Prep Batch: 40168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8015NM Prep	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8015NM Prep	
MB 860-40168/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-40168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-40168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 39863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	300_Prep	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	300_Prep	
MB 860-39863/32-A	Method Blank	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 39863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 40032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Analysis Batch: 40033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9056A	39863
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9056A	39863
MB 860-39863/32-A	Method Blank	Total/NA	Solid	9056A	39863
LCS 860-39863/33-A	Lab Control Sample	Total/NA	Solid	9056A	39863
LCSD 860-39863/34-A	Lab Control Sample Dup	Total/NA	Solid	9056A	39863

Drying Batch: 565114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 565273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8330B	565114
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8330B	565114
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 565765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	8330B	565273
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	8330B	565273
MB 280-565273/1-A	Method Blank	Total/NA	Solid	8330B	565273
LCS 280-565273/2-A	Lab Control Sample	Total/NA	Solid	8330B	565273

LCMS

Analysis Batch: 556129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-556129/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 564802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-564802/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 565221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	PFC leach	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS (Continued)

Prep Batch: 565221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	PFC leach	
MB 280-565221/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Prep Batch: 565332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6860	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6860	
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 565538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6860	565332
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6860	565332
MB 280-565332/1-A	Method Blank	Total/NA	Solid	6860	565332
LCS 280-565332/2-A	Lab Control Sample	Total/NA	Solid	6860	565332

Analysis Batch: 566231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	DV-LC-0012	565221
MB 280-565221/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	565221
LCS 280-565221/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	565221

Metals

Prep Batch: 39690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	7471A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	7471A	
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 39840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	7471A	39690
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	7471A	39690
MB 860-39690/10-A	Method Blank	Total/NA	Solid	7471A	39690
LCS 860-39690/11-A	Lab Control Sample	Total/NA	Solid	7471A	39690
LCSD 860-39690/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	39690

Prep Batch: 40290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	3051A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	3051A	
MB 860-40290/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 40589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	6020A	40290
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	6020A	40290
MB 860-40290/1-A	Method Blank	Total/NA	Solid	6020A	40290
LCS 860-40290/2-A	Lab Control Sample	Total/NA	Solid	6020A	40290
LCSD 860-40290/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	40290

General Chemistry

Analysis Batch: 39955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Moisture - 2540	
MB 860-39955/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Prep Batch: 40886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9012A	
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	

Analysis Batch: 40920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9012A	40886
MB 860-40886/22-A	Method Blank	Total/NA	Solid	9012A	40886
LCS 860-40886/23-A	Lab Control Sample	Total/NA	Solid	9012A	40886
LLCS 860-40886/24-A	Lab Control Sample	Total/NA	Solid	9012A	40886
860-19995-1 MS	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886
860-19995-1 MSD	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9012A	40886

Leach Batch: 41396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Soluble	Solid	DI Leach	
860-19995-2	Cell25-Square32-5-3-4-220128	Soluble	Solid	DI Leach	

Analysis Batch: 41417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Soluble	Solid	9045D	41396
860-19995-2	Cell25-Square32-5-3-4-220128	Soluble	Solid	9045D	41396

Prep Batch: 42223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Distill/Phenol	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Distill/Phenol	

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

General Chemistry

Analysis Batch: 42401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	9066	42223
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	9066	42223

Leach Batch: 193042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	7 Day Leach	Solid	335.521	
860-19995-2	Cell25-Square32-5-3-4-220128	7 Day Leach	Solid	335.521	

Analysis Batch: 193044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
860-19995-2	Cell25-Square32-5-3-4-220128	7 Day Leach	Solid	SM 2540C	193042
MB 560-193044/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 560-193044/2	Lab Control Sample	Total/NA	Solid	SM 2540C	

Rad

Leach Batch: 549041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Dry and Grind	
860-19995-2 DU	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Dry and Grind	

Prep Batch: 549566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19995-1	Cell25-Square187-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
860-19995-2	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041
MB 160-549566/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-549566/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-19995-2 DU	Cell25-Square32-5-3-4-220128	Total/NA	Solid	Fill_Geo-21	549041

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square187-5-3-4-220128 **Lab Sample ID: 860-19995-1**
Date Collected: 01/28/22 09:40 **Matrix: Solid**
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.6 g	5 mL	192728	02/01/22 16:15	RJD	XEN CC
Total/NA	Prep	5035			4.95 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 05:10	A1S	XEN STF
Total/NA	Prep	3550C			30.02 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 00:37	T1S	XEN STF
Total/NA	Prep	3546			15.12 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:30	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 17:03	T1S	XEN STF
Total/NA	Prep	3550C			30.08 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 11:39	WP	XEN STF
Total/NA	Prep	3550C			30.08 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:19	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.73 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 06:14	JZ	TAL DEN
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 02:48	WP	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 02:48	WP	XEN STF
Total/NA	Prep	6860			10.34 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:27	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.47 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 10:55	AGCM	TAL DEN
Total/NA	Prep	3051A			.55 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:50	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:44	SHZ	XEN STF
Total/NA	Prep	9012A			0.5209 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:41	CM1	XEN STF
Soluble	Leach	DI Leach			20.02 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.02 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:10	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			335.3000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552697	02/28/22 07:40	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square32-5-3-4-220128
Lab Sample ID: 860-19995-2
Date Collected: 01/28/22 10:06
Matrix: Solid
Date Received: 01/29/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.48 g	5 mL	192728	02/01/22 16:40	RJD	XEN CC
Total/NA	Prep	5035			5.05 g	5 mL	39768	02/01/22 16:14	CSP	XEN STF
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	40051	02/03/22 05:31	A1S	XEN STF
Total/NA	Prep	3550C			30.61 g	1 mL	39639	01/31/22 15:04	TH	XEN STF
Total/NA	Analysis	8270D		10			39861	02/02/22 01:01	T1S	XEN STF
Total/NA	Prep	3546			15.24 g	1 mL	566137	02/10/22 13:33	NGB	TAL PEN
Total/NA	Analysis	8270D		1			566465	02/14/22 23:56	PP1	TAL PEN
Total/NA	Prep	8015NM Prep			10 g	10 mL	40168	02/03/22 13:11	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			40117	02/03/22 17:43	T1S	XEN STF
Total/NA	Prep	3550C			30.12 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8081B		1			40085	02/03/22 11:53	WP	XEN STF
Total/NA	Prep	3550C			30.12 g	5 mL	40042	02/02/22 17:01	JN	XEN STF
Total/NA	Analysis	8082A		1			40154	02/03/22 14:29	WP	XEN STF
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	565114	02/03/22 11:42	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	565273	02/07/22 15:28	EKB	TAL DEN
Total/NA	Analysis	8330B		1			565765	02/11/22 06:37	JZ	TAL DEN
Total/NA	Prep	300_Prep			4.91 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40032	02/03/22 03:00	WP	XEN STF
Total/NA	Prep	300_Prep			4.91 g	50 mL	39863	02/01/22 20:44	ANP	XEN STF
Total/NA	Analysis	9056A		1			40033	02/03/22 03:00	WP	XEN STF
Total/NA	Prep	6860			10.24 g	100 mL	565332	02/07/22 14:51	TEH	TAL DEN
Total/NA	Analysis	6860		1			565538	02/08/22 16:32	AGCM	TAL DEN
Total/NA	Prep	PFC leach			10.3 g	20 mL	565221	02/07/22 10:31	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			566231	02/16/22 11:03	AGCM	TAL DEN
Total/NA	Prep	3051A			.56 g	50 mL	40290	02/04/22 11:08	PB	XEN STF
Total/NA	Analysis	6020A		10			40589	02/07/22 19:53	DCL	XEN STF
Total/NA	Prep	7471A			.51 g	50 mL	39690	02/01/22 08:30	AGR	XEN STF
Total/NA	Analysis	7471A		1			39840	02/01/22 12:45	SHZ	XEN STF
Total/NA	Prep	9012A			0.5028 g	6 mL	40886	02/09/22 15:50	CM1	XEN STF
Total/NA	Analysis	9012A		1			40920	02/09/22 17:45	CM1	XEN STF
Soluble	Leach	DI Leach			20.03 g	20 mL	41396	02/14/22 12:06	TL	XEN STF
Soluble	Analysis	9045D		1	20.03 g	20 mL	41417	02/14/22 14:32	TL	XEN STF
Total/NA	Prep	Distill/Phenol			5 mL	50 mL	42223	02/21/22 10:17	DTN	XEN STF
Total/NA	Analysis	9066		1	10 mL	10 mL	42401	02/21/22 14:13	DTN	XEN STF
Total/NA	Analysis	Moisture - 2540		1			39955	02/02/22 10:43	BM	XEN STF
7 Day Leach	Leach	335.521			250 g	1000 mL	193042	02/02/22 10:30	LDK	XEN CC
7 Day Leach	Analysis	SM 2540C		1	100 mL	100 mL	193044	02/10/22 15:50	LDK	XEN CC
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	549041	02/01/22 16:18	ZTH	TAL SL
Total/NA	Prep	Fill_Geo-21			327.8000 g	1.0 g	549566	02/07/22 11:13	LTC	TAL SL
Total/NA	Analysis	GA-01-R		1			552706	02/28/22 07:39	JCB	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22

Laboratory: Eurofins Corpus Christi

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

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	05094	06-30-22
Oklahoma	State	2021-016	08-31-22
Texas	NELAP	T104704210-21-28	03-31-22

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	02-28-22
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22
California	State	2513	01-08-22 *
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-22
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-22
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-22
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-22
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-22
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-09-23
Oklahoma	State	2018-006	08-31-22
Oregon	NELAP	4025-011	01-08-23
Pennsylvania	NELAP	013	07-31-22
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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
Utah	NELAP	CO000262019-11	07-31-22
Virginia	NELAP	10490	06-14-22
Washington	State	C583-19	08-03-22
West Virginia DEP	State	354	04-30-22
Wisconsin	State	999615430	08-31-22
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	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	02-28-22

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22

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

Eurofins Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
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
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	XEN CC
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	XEN STF
8270D	Pesticides by GC/MS	SW846	TAL PEN
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8081B	Organochlorine Pesticides (GC)	SW846	XEN STF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	XEN STF
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	XEN STF
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020A	Metals (ICP/MS)	SW846	XEN STF
7471A	Mercury (CVAA)	SW846	XEN STF
9012A	Cyanide, Total and/or Amenable	SW846	XEN STF
9045D	pH	SW846	XEN STF
9066	Phenolics, Total Recoverable	SW846	XEN STF
Moisture - 2540	Percent Moisture	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN CC
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
3051A	Preparation, Metals, Microwave Assisted	SW846	XEN STF
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	XEN CC
3546	Microwave Extraction	SW846	TAL PEN
3550C	Ultrasonic Extraction	SW846	XEN STF
5030B	Purge and Trap	SW846	XEN CC
5035	Closed System Purge and Trap	SW846	XEN STF
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471A	Preparation, Mercury	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012A	Cyanide, Total and/or Amenable, Distillation	SW846	XEN STF
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN STF
Distill/Phenol	Distillation, Phenolics	None	XEN STF
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
PFC leach	Leaching procedure for PFAS	TAL-DEN	TAL DEN
Prep/Air Dry	Preparation, Air drying	None	TAL DEN

Protocol References:

ASTM = ASTM International
DOE = U.S. Department of Energy
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-19995-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory

Laboratory References:

TAL DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

XEN CC = Eurofins Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2471

XEN STF = 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: 860-19995-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-19995-1	Cell25-Square187-5-3-4-220128	Solid	01/28/22 09:40	01/29/22 09:40
860-19995-2	Cell25-Square32-5-3-4-220128	Solid	01/28/22 10:06	01/29/22 09:40

Page 857 of 1603

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

860-19995 Chain of Custody

Environment Testing America

Client Information	Sampler: Cory Rodriguez	Lab PM: Kudchadkar Sachin G	21039.1
Client Contact: Alison Schaffer	Phone: 432 599-5594	E-Mail: Sachin.Kudchadkar@Eurofinset.com	Page: 1-1
Company: ARCADIS U.S. Inc.		Analysis Requested	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#:		

Temp: 0.4 IR ID:HOU-323
C/F +0.2
Corrected Temp. 0.6

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	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:																	
Cell25-Square187-5-3-4-220128	1/28/22	0940	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
Cell25-Square32-5-3-4-220128	1/28/22	1006	G	Solid			1	1	1	1	1	1		1	1	1	1	1	1	15	
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
TB				Solid																

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:

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
	Cory Rodriguez	1/28/22 1700	Arcadis		1/29/22 9:40	Xenco
	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: 7/18/2023 11:20:27 AM
Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/17/2022			
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, 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:						
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 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 out 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 complicance 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]	1/31/22 1900	Xenco	FED EX		
2	FED EX			[signature]	FEB 01 2022 0915	ETA STL
3				Autumn R. Johnson		

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 2/16/2022			
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	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:

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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	X	3	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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
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: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
Preservation Code:										
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 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 out 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 complicance 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]	1/31/22 1900	Xenco	[signature]	02/01/2022 1110	EK
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: 1.1 C6 IR-13 0.8

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-9874.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-19995-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 2/16/2022			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2471(Tel) 361-289-2673(Fax)	PO #:			
Email:	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 - 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)	2540C/TX_7Day_T	8260B/5030B_Solid (MOD) mod	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square187-5-3-4-220128 (860-19995-1)	1/28/22	09:40 Central		Solid			X	X	1	
Cell25-Square32-5-3-4-220128 (860-19995-2)	1/28/22	10:06 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 out 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 complicance 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]	2/1/22 1900	Xenco	[signature]	2-2-22 12:23	EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/3.6 IR40 CG

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19995-1

Login Number: 19995 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	0.6
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: 860-19995-1

Login Number: 19995 **List Source: Eurofins Corpus Christi**
List Number: 2 **List Creation: 02/01/22 12:01 PM**
Creator: Forrester, Caitlyn D

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	
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	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-19995-1

Login Number: 19995 **List Source: Eurofins Denver**
List Number: 4 **List Creation: 02/01/22 12:53 PM**
Creator: Rystrom, Joshua R

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?	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").	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: 860-19995-1

Login Number: 19995 **List Source: Eurofins Pensacola**
List Number: 3 **List Creation: 02/01/22 01:46 PM**
Creator: Roberts, Alexis J

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	0.8°C IR9
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: 860-19995-1

Login Number: 19995 **List Source: Eurofins St. Louis**
List Number: 5 **List Creation: 02/01/22 04:03 PM**
Creator: Johnson, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-27455-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer



Authorized for release by:
7/5/2022 3:30:20 PM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-27455-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
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 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.

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: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-27455-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 6/16/2022. The report (revision 1) is being revised due to: Sample IDs corrected for all samples..

Receipt
The samples were received on 6/7/2022 10:39 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 2.5º C.

GC/MS VOA
Method 8260C: The following samples were diluted due to the nature of the sample matrix: (860-27356-B-24-A) and (860-27356-B-24-A MS). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-55773 and analytical batch 860-56209 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery was within acceptance limits.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: (860-27356-B-1-A) and (860-27356-B-1-A MS). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-55773 and analytical batch 860-56375 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery was within acceptance limits.

Method 8260C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation/analysis: (860-27687-C-3-A) and (860-27687-C-3-A MS). First soil vial was overweight and second vial did not have sample in it so Methanol vial was used and ran it at 25x. Reported from methanol vial.

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
Methods 300.0, 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-56128 and analytical batch 860-56032 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.

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

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

Client Sample ID: Cell26-168-S-3-4-220606 — Lab Sample ID: 860-27455-1

No Detections.

Client Sample ID: Cell26-80-S-3-4-220606 — Lab Sample ID: 860-27455-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.8		9.98	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-111-S-3-4-220606 — Lab Sample ID: 860-27455-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.25	J	9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell26-65-S-3-4-220606 — Lab Sample ID: 860-27455-4

No Detections.

Client Sample ID: Cell25-83-S-3-4-220606 — Lab Sample ID: 860-27455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.2		9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell25-108-S-3-4-220606 — Lab Sample ID: 860-27455-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.86	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell25-26-S-3-4-220606 — Lab Sample ID: 860-27455-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.73	J	9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell25-188-S-3-4-220606 — Lab Sample ID: 860-27455-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.5		9.92	3.51	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-46-S-3-4-220606 — Lab Sample ID: 860-27455-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.65	J	9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-94-S-3-4-220606 — Lab Sample ID: 860-27455-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.13	J	9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-156-S-3-4-220606 — Lab Sample ID: 860-27455-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.64	J	10.1	3.56	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-41-S-3-4-220606 — Lab Sample ID: 860-27455-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00116	J	0.00502	0.00100	mg/Kg	1		8260C	Total/NA
Total BTEX	0.00116	J	0.00201	0.000803	mg/Kg	1		Total BTEX	Total/NA
Chloride	11.0		10.0	3.55	mg/Kg	1		300.0	Total/NA

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: 860-27455-1

Client Sample ID: Cell26-168-S-3-4-220606

Lab Sample ID: 860-27455-1
Matrix: Solid
Date Collected: 06/06/22 09:02
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg		06/09/22 09:41	06/09/22 16:19	1
Toluene	0.00100	U	0.00501	0.00100	mg/Kg		06/09/22 09:41	06/09/22 16:19	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg		06/09/22 09:41	06/09/22 16:19	1
m,p-Xylenes	0.000802	U	0.00200	0.000802	mg/Kg		06/09/22 09:41	06/09/22 16:19	1
o-Xylene	0.000987	U	0.00100	0.000987	mg/Kg		06/09/22 09:41	06/09/22 16:19	1
Xylenes, Total	0.000987	U	0.00200	0.000987	mg/Kg		06/09/22 09:41	06/09/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*06/09/22 09:41*	*06/09/22 16:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*06/09/22 09:41*	*06/09/22 16:19*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*06/09/22 09:41*	*06/09/22 16:19*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*	*06/09/22 09:41*	*06/09/22 16:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000802	U	0.00200	0.000802	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:38	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:38*	*1*
o-Terphenyl	*89*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.58	U	10.1	3.58	mg/Kg		06/09/22 20:20	06/10/22 03:54	1

Client Sample ID: Cell26-80-S-3-4-220606

Lab Sample ID: 860-27455-2
Matrix: Solid
Date Collected: 06/06/22 09:21
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/09/22 09:41	06/09/22 16:39	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/09/22 09:41	06/09/22 16:39	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/09/22 09:41	06/09/22 16:39	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/09/22 09:41	06/09/22 16:39	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/09/22 09:41	06/09/22 16:39	1
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/09/22 09:41	06/09/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/09/22 09:41*	*06/09/22 16:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/09/22 09:41*	*06/09/22 16:39*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/09/22 09:41*	*06/09/22 16:39*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/09/22 09:41*	*06/09/22 16:39*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-80-S-3-4-220606 Lab Sample ID: 860-27455-2
Date Collected: 06/06/22 09:21 **Matrix: Solid**
Date Received: 06/07/22 10:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000806	U	0.00202	0.000806	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:59	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:59	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:59*	*1*
o-Terphenyl	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.8**		9.98	3.53	mg/Kg		06/08/22 21:17	06/09/22 09:41	1

Client Sample ID: Cell26-111-S-3-4-220606 Lab Sample ID: 860-27455-3
Date Collected: 06/06/22 09:40 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00100	0.000208	mg/Kg		06/09/22 09:41	06/09/22 17:00	1
Toluene	0.00100	U	0.00502	0.00100	mg/Kg		06/09/22 09:41	06/09/22 17:00	1
Ethylbenzene	0.000337	U	0.00100	0.000337	mg/Kg		06/09/22 09:41	06/09/22 17:00	1
m,p-Xylenes	0.000803	U	0.00201	0.000803	mg/Kg		06/09/22 09:41	06/09/22 17:00	1
o-Xylene	0.000989	U	0.00100	0.000989	mg/Kg		06/09/22 09:41	06/09/22 17:00	1
Xylenes, Total	0.000989	U	0.00201	0.000989	mg/Kg		06/09/22 09:41	06/09/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*06/09/22 09:41*	*06/09/22 17:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*06/09/22 09:41*	*06/09/22 17:00*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/09/22 09:41*	*06/09/22 17:00*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/09/22 09:41*	*06/09/22 17:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000803	U	0.00201	0.000803	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	49.9	21.1	mg/Kg		06/14/22 15:15	06/14/22 19:38	1
Diesel Range Organics (Over C10-C28)	21.1	U	49.9	21.1	mg/Kg		06/14/22 15:15	06/14/22 19:38	1
Oil Range Organics (Over C28-C36)	21.1	U	49.9	21.1	mg/Kg		06/14/22 15:15	06/14/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/14/22 15:15*	*06/14/22 19:38*	*1*
o-Terphenyl	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 19:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-111-S-3-4-220606 Lab Sample ID: 860-27455-3
Date Collected: 06/06/22 09:40 **Matrix: Solid**
Date Received: 06/07/22 10:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.25	J	9.94	3.52	mg/Kg		06/08/22 21:18	06/09/22 10:20	1

Client Sample ID: Cell26-65-S-3-4-220606 Lab Sample ID: 860-27455-4
Date Collected: 06/06/22 09:55 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/09/22 09:41	06/09/22 17:20	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/09/22 09:41	06/09/22 17:20	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/09/22 09:41	06/09/22 17:20	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/09/22 09:41	06/09/22 17:20	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/09/22 09:41	06/09/22 17:20	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/09/22 09:41	06/09/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/09/22 09:41*	*06/09/22 17:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/09/22 09:41*	*06/09/22 17:20*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*06/09/22 09:41*	*06/09/22 17:20*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/09/22 09:41*	*06/09/22 17:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000808	U	0.00202	0.000808	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		06/14/22 15:15	06/14/22 19:58	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/14/22 15:15	06/14/22 19:58	1
OII Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/14/22 15:15	06/14/22 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/14/22 15:15*	*06/14/22 19:58*	*1*
o-Terphenyl	*98*		*65 - 130*	*06/14/22 15:15*	*06/14/22 19:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.51	U	9.92	3.51	mg/Kg		06/08/22 21:18	06/09/22 10:33	1

Client Sample ID: Cell25-83-S-3-4-220606 Lab Sample ID: 860-27455-5
Date Collected: 06/06/22 10:28 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000994	0.000206	mg/Kg		06/09/22 09:41	06/09/22 17:41	1
Toluene	0.000994	U	0.00497	0.000994	mg/Kg		06/09/22 09:41	06/09/22 17:41	1
Ethylbenzene	0.000334	U	0.000994	0.000334	mg/Kg		06/09/22 09:41	06/09/22 17:41	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		06/09/22 09:41	06/09/22 17:41	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		06/09/22 09:41	06/09/22 17:41	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-83-S-3-4-220606 Lab Sample ID: 860-27455-5

Date Collected: 06/06/22 10:28 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000979	U	0.00199	0.000979	mg/Kg		06/09/22 09:41	06/09/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/09/22 09:41*	*06/09/22 17:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*06/09/22 09:41*	*06/09/22 17:41*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*06/09/22 09:41*	*06/09/22 17:41*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/09/22 09:41*	*06/09/22 17:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000795	U	0.00199	0.000795	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:17	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:17	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*06/14/22 15:15*	*06/14/22 20:17*	*1*
o-Terphenyl	*105*		*65 - 130*	*06/14/22 15:15*	*06/14/22 20:17*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.2**		9.90	3.50	mg/Kg		06/08/22 21:18	06/09/22 10:46	1

Client Sample ID: Cell25-108-S-3-4-220606 Lab Sample ID: 860-27455-6

Date Collected: 06/06/22 10:56 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		06/09/22 09:41	06/09/22 18:01	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		06/09/22 09:41	06/09/22 18:01	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/09/22 09:41	06/09/22 18:01	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		06/09/22 09:41	06/09/22 18:01	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		06/09/22 09:41	06/09/22 18:01	1
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		06/09/22 09:41	06/09/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/09/22 09:41*	*06/09/22 18:01*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/09/22 09:41*	*06/09/22 18:01*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/09/22 09:41*	*06/09/22 18:01*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/09/22 09:41*	*06/09/22 18:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000805	U	0.00201	0.000805	mg/Kg			06/15/22 15:36	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-108-S-3-4-220606 Lab Sample ID: 860-27455-6

Date Collected: 06/06/22 10:56 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:36	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:36	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		06/14/22 15:15	06/14/22 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/14/22 15:15*	*06/14/22 20:36*	*1*
o-Terphenyl	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 20:36*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.86**	**J**	9.96	3.53	mg/Kg		06/09/22 20:20	06/10/22 04:32	1

Client Sample ID: Cell25-26-S-3-4-220606 Lab Sample ID: 860-27455-7

Date Collected: 06/06/22 11:31 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/09/22 09:41	06/09/22 18:22	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/09/22 09:41	06/09/22 18:22	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/09/22 09:41	06/09/22 18:22	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/09/22 09:41	06/09/22 18:22	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/09/22 09:41	06/09/22 18:22	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/09/22 09:41	06/09/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*06/09/22 09:41*	*06/09/22 18:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/09/22 09:41*	*06/09/22 18:22*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/09/22 09:41*	*06/09/22 18:22*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/09/22 09:41*	*06/09/22 18:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000808	U	0.00202	0.000808	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 21:15	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 21:15	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:15*	*1*
o-Terphenyl	*101*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.73**	**J**	9.90	3.50	mg/Kg		06/09/22 20:20	06/10/22 04:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

Client Sample ID: Cell25-188-S-3-4-220606

Lab Sample ID: 860-27455-8
Matrix: Solid
Date Collected: 06/06/22 11:50
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/09/22 09:41	06/09/22 18:42	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/09/22 09:41	06/09/22 18:42	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/09/22 09:41	06/09/22 18:42	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/09/22 09:41	06/09/22 18:42	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/09/22 09:41	06/09/22 18:42	1
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/09/22 09:41	06/09/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/09/22 09:41*	*06/09/22 18:42*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/09/22 09:41*	*06/09/22 18:42*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/09/22 09:41*	*06/09/22 18:42*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/09/22 09:41*	*06/09/22 18:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000806	U	0.00202	0.000806	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.6	21.4	mg/Kg		06/14/22 15:15	06/14/22 21:34	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.6	21.4	mg/Kg		06/14/22 15:15	06/14/22 21:34	1
Oil Range Organics (Over C28-C36)	21.4	U	50.6	21.4	mg/Kg		06/14/22 15:15	06/14/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:34*	*1*
o-Terphenyl	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.5**		9.92	3.51	mg/Kg		06/09/22 20:20	06/10/22 04:58	1

Client Sample ID: Cell21-46-S-3-4-220606

Lab Sample ID: 860-27455-9
Matrix: Solid
Date Collected: 06/06/22 12:30
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000205	U	0.000992	0.000205	mg/Kg		06/09/22 09:41	06/09/22 19:03	1
Toluene	0.000992	U	0.00496	0.000992	mg/Kg		06/09/22 09:41	06/09/22 19:03	1
Ethylbenzene	0.000333	U	0.000992	0.000333	mg/Kg		06/09/22 09:41	06/09/22 19:03	1
m,p-Xylenes	0.000794	U	0.00198	0.000794	mg/Kg		06/09/22 09:41	06/09/22 19:03	1
o-Xylene	0.000977	U	0.000992	0.000977	mg/Kg		06/09/22 09:41	06/09/22 19:03	1
Xylenes, Total	0.000977	U	0.00198	0.000977	mg/Kg		06/09/22 09:41	06/09/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*06/09/22 09:41*	*06/09/22 19:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/09/22 09:41*	*06/09/22 19:03*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/09/22 09:41*	*06/09/22 19:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/09/22 09:41*	*06/09/22 19:03*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-46-S-3-4-220606 Lab Sample ID: 860-27455-9

Date Collected: 06/06/22 12:30 **Matrix: Solid**
Date Received: 06/07/22 10:39

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000794	U	0.00198	0.000794	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.3	21.2	mg/Kg		06/14/22 15:15	06/14/22 21:54	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.3	21.2	mg/Kg		06/14/22 15:15	06/14/22 21:54	1
Oil Range Organics (Over C28-C36)	21.2	U	50.3	21.2	mg/Kg		06/14/22 15:15	06/14/22 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:54*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/14/22 15:15*	*06/14/22 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.65**	**J**	9.94	3.52	mg/Kg		06/09/22 20:20	06/10/22 05:11	1

Client Sample ID: Cell21-94-S-3-4-220606 Lab Sample ID: 860-27455-10

Date Collected: 06/06/22 12:40 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000994	0.000206	mg/Kg		06/09/22 09:41	06/10/22 14:57	1
Toluene	0.000994	U	0.00497	0.000994	mg/Kg		06/09/22 09:41	06/10/22 14:57	1
Ethylbenzene	0.000334	U	0.000994	0.000334	mg/Kg		06/09/22 09:41	06/10/22 14:57	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		06/09/22 09:41	06/10/22 14:57	1
o-Xylene	0.000979	U	0.000994	0.000979	mg/Kg		06/09/22 09:41	06/10/22 14:57	1
Xylenes, Total	0.000979	U	0.00199	0.000979	mg/Kg		06/09/22 09:41	06/10/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*06/09/22 09:41*	*06/10/22 14:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/09/22 09:41*	*06/10/22 14:57*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/09/22 09:41*	*06/10/22 14:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/09/22 09:41*	*06/10/22 14:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000795	U	0.00199	0.000795	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:13	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:13	1
Oil Range Organics (Over C28-C36)	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:13*	*1*
o-Terphenyl	*100*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:13*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-94-S-3-4-220606 Lab Sample ID: 860-27455-10
Date Collected: 06/06/22 12:40 **Matrix: Solid**
Date Received: 06/07/22 10:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.13**	**J**	9.90	3.50	mg/Kg		06/09/22 20:20	06/10/22 05:49	1

Client Sample ID: Cell21-156-S-3-4-220606 Lab Sample ID: 860-27455-11
Date Collected: 06/06/22 13:00 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/09/22 09:41	06/14/22 00:48	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/09/22 09:41	06/14/22 00:48	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/09/22 09:41	06/14/22 00:48	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/09/22 09:41	06/14/22 00:48	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/09/22 09:41	06/14/22 00:48	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/09/22 09:41	06/14/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/09/22 09:41*	*06/14/22 00:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/09/22 09:41*	*06/14/22 00:48*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/09/22 09:41*	*06/14/22 00:48*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/09/22 09:41*	*06/14/22 00:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000808	U	0.00202	0.000808	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:32	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:32	1
OII Range Organics (Over C28-C36)	21.0	U	49.9	21.0	mg/Kg		06/14/22 15:15	06/14/22 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:32*	*1*
o-Terphenyl	*102*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:32*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.64**	**J**	10.1	3.56	mg/Kg		06/09/22 20:20	06/10/22 06:02	1

Client Sample ID: Cell21-41-S-3-4-220606 Lab Sample ID: 860-27455-12
Date Collected: 06/06/22 13:15 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00100	0.000208	mg/Kg		06/09/22 09:54	06/13/22 11:32	1
Toluene	**0.00116**	**J**	0.00502	0.00100	mg/Kg		06/09/22 09:54	06/13/22 11:32	1
Ethylbenzene	0.000337	U	0.00100	0.000337	mg/Kg		06/09/22 09:54	06/13/22 11:32	1
m,p-Xylenes	0.000803	U	0.00201	0.000803	mg/Kg		06/09/22 09:54	06/13/22 11:32	1
o-Xylene	0.000989	U	0.00100	0.000989	mg/Kg		06/09/22 09:54	06/13/22 11:32	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-41-S-3-4-220606 **Lab Sample ID: 860-27455-12**
Date Collected: 06/06/22 13:15 **Matrix: Solid**
Date Received: 06/07/22 10:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000989	U	0.00201	0.000989	mg/Kg		06/09/22 09:54	06/13/22 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*06/09/22 09:54*	*06/13/22 11:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/09/22 09:54*	*06/13/22 11:32*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/09/22 09:54*	*06/13/22 11:32*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/09/22 09:54*	*06/13/22 11:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00116**	**J**	0.00201	0.000803	mg/Kg			06/15/22 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 22:51	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 22:51	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/14/22 15:15	06/14/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:51*	*1*
o-Terphenyl	*97*		*65 - 130*	*06/14/22 15:15*	*06/14/22 22:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.0**		10.0	3.55	mg/Kg		06/09/22 20:20	06/10/22 06:15	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

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)
860-27455-1	Cell26-168-S-3-4-220606	98	97	95	90
860-27455-2	Cell26-80-S-3-4-220606	100	96	99	95
860-27455-3	Cell26-111-S-3-4-220606	101	97	96	95
860-27455-4	Cell26-65-S-3-4-220606	100	99	95	96
860-27455-5	Cell25-83-S-3-4-220606	100	97	95	96
860-27455-6	Cell25-108-S-3-4-220606	102	98	96	97
860-27455-7	Cell25-26-S-3-4-220606	101	98	96	97
860-27455-8	Cell25-188-S-3-4-220606	102	99	96	96
860-27455-9	Cell21-46-S-3-4-220606	101	99	97	97
860-27455-10	Cell21-94-S-3-4-220606	103	99	100	97
860-27455-11	Cell21-156-S-3-4-220606	102	99	97	97
860-27455-12	Cell21-41-S-3-4-220606	97	100	98	96
860-27455-12 MS	Cell21-41-S-3-4-220606	94	98	100	99
LCS 860-56209/3	Lab Control Sample	96	97	101	100
LCS 860-56375/3	Lab Control Sample	102	98	104	100
LCS 860-56619/3	Lab Control Sample	96	99	100	101
LCS 860-56721/3	Lab Control Sample	97	100	101	97
LCSD 860-56209/4	Lab Control Sample Dup	96	99	100	102
LCSD 860-56375/4	Lab Control Sample Dup	102	99	103	100
LCSD 860-56619/4	Lab Control Sample Dup	95	99	101	100
LCSD 860-56721/4	Lab Control Sample Dup	99	98	102	99
MB 860-56209/9	Method Blank	99	99	96	99
MB 860-56375/9	Method Blank	104	99	98	96
MB 860-56619/8	Method Blank	101	100	97	95
MB 860-56721/8	Method Blank	104	99	100	94

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-27455-1	Cell26-168-S-3-4-220606	87	89
860-27455-2	Cell26-80-S-3-4-220606	99	99
860-27455-2 MS	Cell26-80-S-3-4-220606	113	99
860-27455-3	Cell26-111-S-3-4-220606	101	99
860-27455-4	Cell26-65-S-3-4-220606	98	98
860-27455-5	Cell25-83-S-3-4-220606	104	105
860-27455-6	Cell25-108-S-3-4-220606	98	99
860-27455-7	Cell25-26-S-3-4-220606	98	101
860-27455-8	Cell25-188-S-3-4-220606	101	99
860-27455-9	Cell21-46-S-3-4-220606	103	103
860-27455-10	Cell21-94-S-3-4-220606	103	100
860-27455-11	Cell21-156-S-3-4-220606	99	102

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(65-130)	(65-130)								
860-27455-12	Cell21-41-S-3-4-220606	98	97								
LCS 860-56887/2-A	Lab Control Sample	103	89								
LCSD 860-56887/3-A	Lab Control Sample Dup	106	91								
MB 860-56887/1-A	Method Blank	90	91								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

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

Lab Sample ID: MB 860-56209/9
Matrix: Solid
Analysis Batch: 56209

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/09/22 11:35	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/09/22 11:35	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/09/22 11:35	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/09/22 11:35	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/09/22 11:35	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/09/22 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*		*06/09/22 11:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*		*06/09/22 11:35*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*06/09/22 11:35*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/09/22 11:35*	*1*

Lab Sample ID: LCS 860-56209/3
Matrix: Solid
Analysis Batch: 56209

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	0.04547		mg/Kg		91	66 - 142		
Toluene			0.0500	0.04698		mg/Kg		94	74 - 130		
Ethylbenzene			0.0500	0.04827		mg/Kg		97	80 - 130		
m,p-Xylenes			0.0500	0.04800		mg/Kg		96	78 - 130		
o-Xylene			0.0500	0.04840		mg/Kg		97	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-56209/4
Matrix: Solid
Analysis Batch: 56209

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	0.04449		mg/Kg		89	66 - 142	2	25
Toluene			0.0500	0.04582		mg/Kg		92	74 - 130	3	25
Ethylbenzene			0.0500	0.04788		mg/Kg		96	80 - 130	1	25
m,p-Xylenes			0.0500	0.04778		mg/Kg		96	78 - 130	0	25
o-Xylene			0.0500	0.04906		mg/Kg		98	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

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

Lab Sample ID: MB 860-56375/9
Matrix: Solid
Analysis Batch: 56375

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/10/22 11:29	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/10/22 11:29	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/10/22 11:29	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/10/22 11:29	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/10/22 11:29	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/10/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*		*06/10/22 11:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*		*06/10/22 11:29*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*		*06/10/22 11:29*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/10/22 11:29*	*1*

Lab Sample ID: LCS 860-56375/3
Matrix: Solid
Analysis Batch: 56375

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	0.03980		mg/Kg		80	66 - 142		
Toluene			0.0500	0.03997		mg/Kg		80	74 - 130		
Ethylbenzene			0.0500	0.04205		mg/Kg		84	80 - 130		
m,p-Xylenes			0.0500	0.04102		mg/Kg		82	78 - 130		
o-Xylene			0.0500	0.04344		mg/Kg		87	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*104*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 860-56375/4
Matrix: Solid
Analysis Batch: 56375

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	0.04132		mg/Kg		83	66 - 142	4	25
Toluene			0.0500	0.04161		mg/Kg		83	74 - 130	4	25
Ethylbenzene			0.0500	0.04447		mg/Kg		89	80 - 130	6	25
m,p-Xylenes			0.0500	0.04420		mg/Kg		88	78 - 130	7	25
o-Xylene			0.0500	0.04647		mg/Kg		93	79 - 130	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*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: 860-27455-1

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

Lab Sample ID: MB 860-56619/8
Matrix: Solid
Analysis Batch: 56619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/13/22 10:56	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/13/22 10:56	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/13/22 10:56	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/13/22 10:56	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/13/22 10:56	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/13/22 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*06/13/22 10:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*06/13/22 10:56*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*06/13/22 10:56*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*06/13/22 10:56*	*1*

Lab Sample ID: LCS 860-56619/3
Matrix: Solid
Analysis Batch: 56619

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	0.04459		mg/Kg		89	66 - 142
Toluene	0.0500	0.04541		mg/Kg		91	74 - 130
Ethylbenzene	0.0500	0.04618		mg/Kg		92	80 - 130
m,p-Xylenes	0.0500	0.04617		mg/Kg		92	78 - 130
o-Xylene	0.0500	0.04713		mg/Kg		94	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 860-56619/4
Matrix: Solid
Analysis Batch: 56619

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	0.05082		mg/Kg		102	66 - 142	13	25
Toluene	0.0500	0.05060		mg/Kg		101	74 - 130	11	25
Ethylbenzene	0.0500	0.05220		mg/Kg		104	80 - 130	12	25
m,p-Xylenes	0.0500	0.05305		mg/Kg		106	78 - 130	14	25
o-Xylene	0.0500	0.05546		mg/Kg		111	79 - 130	16	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*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: 860-27455-1

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

Lab Sample ID: 860-27455-12 MS
Matrix: Solid
Analysis Batch: 56619

Client Sample ID: Cell21-41-S-3-4-220606
Prep Type: Total/NA
Prep Batch: 56626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000208	U	0.0497	0.04771		mg/Kg		96	71 - 119
Toluene	0.00116	J	0.0497	0.04754		mg/Kg		93	74 - 122
Ethylbenzene	0.000337	U	0.0497	0.04903		mg/Kg		99	80 - 123
m,p-Xylenes	0.000803	U	0.0497	0.04855		mg/Kg		98	78 - 127
o-Xylene	0.000989	U	0.0497	0.04945		mg/Kg		99	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 860-56721/8
Matrix: Solid
Analysis Batch: 56721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/14/22 00:07	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/14/22 00:07	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/14/22 00:07	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/22 00:07	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/14/22 00:07	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/14/22 00:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*		*06/14/22 00:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*		*06/14/22 00:07*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*		*06/14/22 00:07*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*06/14/22 00:07*	*1*

Lab Sample ID: LCS 860-56721/3
Matrix: Solid
Analysis Batch: 56721

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	0.04584		mg/Kg		92	66 - 142
Toluene	0.0500	0.04510		mg/Kg		90	74 - 130
Ethylbenzene	0.0500	0.04715		mg/Kg		94	80 - 130
m,p-Xylenes	0.0500	0.04754		mg/Kg		95	78 - 130
o-Xylene	0.0500	0.04989		mg/Kg		100	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

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

Lab Sample ID: LCSD 860-56721/4
Matrix: Solid
Analysis Batch: 56721

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	0.04658		mg/Kg		93	66 - 142	2	25
Toluene			0.0500	0.04663		mg/Kg		93	74 - 130	3	25
Ethylbenzene			0.0500	0.04795		mg/Kg		96	80 - 130	2	25
m,p-Xylenes			0.0500	0.04772		mg/Kg		95	78 - 130	0	25
o-Xylene			0.0500	0.05002		mg/Kg		100	79 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 860-56887/1-A
Matrix: Solid
Analysis Batch: 56832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:17	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:17	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/14/22 15:15	06/14/22 18:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:17*	*1*
o-Terphenyl	*91*		*65 - 130*	*06/14/22 15:15*	*06/14/22 18:17*	*1*

Lab Sample ID: LCS 860-56887/2-A
Matrix: Solid
Analysis Batch: 56832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	989.8		mg/Kg		99	70 - 135		
Diesel Range Organics (Over C10-C28)			997	960.5		mg/Kg		96	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*65 - 130*
o-Terphenyl	*89*		*65 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

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

Lab Sample ID: LCSD 860-56887/3-A
Matrix: Solid
Analysis Batch: 56832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56887

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1020		mg/Kg		102	70 - 135	3	35
Diesel Range Organics (Over C10-C28)			997	1007		mg/Kg		101	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*65 - 130*
o-Terphenyl	*91*		*65 - 130*

Lab Sample ID: 860-27455-2 MS
Matrix: Solid
Analysis Batch: 56832

Client Sample ID: Cell26-80-S-3-4-220606
Prep Type: Total/NA
Prep Batch: 56887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	21.1	U	997	1026		mg/Kg		103	70 - 135
Diesel Range Organics (Over C10-C28)	21.1	U	994	1023		mg/Kg		103	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*113*		*65 - 130*
o-Terphenyl	*99*		*65 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-56128/1-A
Matrix: Solid
Analysis Batch: 56032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/08/22 15:04	06/08/22 16:44	1

Lab Sample ID: LCS 860-56128/2-A
Matrix: Solid
Analysis Batch: 56032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56128

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			100	99.72		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-56128/3-A
Matrix: Solid
Analysis Batch: 56032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56128

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	97.14		mg/Kg		97	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-56368/1-A
Matrix: Solid
Analysis Batch: 56244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/09/22 20:20	06/10/22 03:15	1

Lab Sample ID: LCS 860-56368/2-A
Matrix: Solid
Analysis Batch: 56244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.91		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-56368/3-A
Matrix: Solid
Analysis Batch: 56244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56368

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	98.94		mg/Kg		99	80 - 120	0	20

Lab Sample ID: 860-27455-1 MS
Matrix: Solid
Analysis Batch: 56244

Client Sample ID: Cell26-168-S-3-4-220606
Prep Type: Total/NA
Prep Batch: 56368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.58	U	100	103.7		mg/Kg		104	80 - 120

Lab Sample ID: 860-27455-1 MSD
Matrix: Solid
Analysis Batch: 56244

Client Sample ID: Cell26-168-S-3-4-220606
Prep Type: Total/NA
Prep Batch: 56368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.58	U	100	104.0		mg/Kg		104	80 - 120	0	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

GC/MS VOA

Analysis Batch: 56209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	8260C	56228
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	8260C	56228
MB 860-56209/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-56209/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56209/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 56228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	5030C	
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	5030C	

Analysis Batch: 56375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	8260C	56228
MB 860-56375/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-56375/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56375/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 56619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	8260C	56228
MB 860-56619/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-56619/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56619/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-27455-12 MS	Cell21-41-S-3-4-220606	Total/NA	Solid	8260C	56626

Prep Batch: 56626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-12 MS	Cell21-41-S-3-4-220606	Total/NA	Solid	5030C	

Analysis Batch: 56721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	8260C	56228
MB 860-56721/8	Method Blank	Total/NA	Solid	8260C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

GC/MS VOA (Continued)

Analysis Batch: 56721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-56721/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56721/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 57086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	Total BTEX	
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 56832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	8015B NM	56887
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	8015B NM	56887
MB 860-56887/1-A	Method Blank	Total/NA	Solid	8015B NM	56887
LCS 860-56887/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56887
LCSD 860-56887/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56887
860-27455-2 MS	Cell26-80-S-3-4-220606	Total/NA	Solid	8015B NM	56887

Prep Batch: 56887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

GC Semi VOA (Continued)

Prep Batch: 56887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	8015NM Prep	
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	8015NM Prep	
MB 860-56887/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-56887/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-56887/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-27455-2 MS	Cell26-80-S-3-4-220606	Total/NA	Solid	8015NM Prep	

HPLC/IC

Analysis Batch: 56032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	300.0	56128
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	300.0	56128
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	300.0	56128
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	300.0	56128
MB 860-56128/1-A	Method Blank	Total/NA	Solid	300.0	56128
LCS 860-56128/2-A	Lab Control Sample	Total/NA	Solid	300.0	56128
LCSD 860-56128/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	56128

Prep Batch: 56128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	300_Prep	
MB 860-56128/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-56128/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-56128/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 56244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	300.0	56368
MB 860-56368/1-A	Method Blank	Total/NA	Solid	300.0	56368
LCS 860-56368/2-A	Lab Control Sample	Total/NA	Solid	300.0	56368
LCSD 860-56368/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	56368
860-27455-1 MS	Cell26-168-S-3-4-220606	Total/NA	Solid	300.0	56368
860-27455-1 MSD	Cell26-168-S-3-4-220606	Total/NA	Solid	300.0	56368

Prep Batch: 56368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

HPLC/IC (Continued)

Prep Batch: 56368 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	300_Prep	
MB 860-56368/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-56368/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-56368/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-27455-1 MS	Cell26-168-S-3-4-220606	Total/NA	Solid	300_Prep	
860-27455-1 MSD	Cell26-168-S-3-4-220606	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 56225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27455-1	Cell26-168-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-2	Cell26-80-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-3	Cell26-111-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-4	Cell26-65-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-5	Cell25-83-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-6	Cell25-108-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-7	Cell25-26-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-8	Cell25-188-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-9	Cell21-46-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-10	Cell21-94-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-11	Cell21-156-S-3-4-220606	Total/NA	Solid	Moisture	
860-27455-12	Cell21-41-S-3-4-220606	Total/NA	Solid	Moisture	
MB 860-56225/1	Method Blank	Total/NA	Solid	Moisture	
860-27455-1 DU	Cell26-168-S-3-4-220606	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-168-S-3-4-220606
Lab Sample ID: 860-27455-1
Date Collected: 06/06/22 09:02
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 16:19	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 18:38	T1S	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 03:54	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell26-80-S-3-4-220606
Lab Sample ID: 860-27455-2
Date Collected: 06/06/22 09:21
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 16:39	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 18:59	T1S	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	56128	06/08/22 21:17	ANP	XEN STF
Total/NA	Analysis	300.0		1			56032	06/09/22 09:41	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell26-111-S-3-4-220606
Lab Sample ID: 860-27455-3
Date Collected: 06/06/22 09:40
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 17:00	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 19:38	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	56128	06/08/22 21:18	ANP	XEN STF
Total/NA	Analysis	300.0		1			56032	06/09/22 10:20	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell26-65-S-3-4-220606
Lab Sample ID: 860-27455-4
Date Collected: 06/06/22 09:55
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 17:20	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-65-S-3-4-220606 Lab Sample ID: 860-27455-4

Date Collected: 06/06/22 09:55 **Matrix: Solid**
Date Received: 06/07/22 10:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 19:58	T1S	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	56128	06/08/22 21:18	ANP	XEN STF
Total/NA	Analysis	300.0		1			56032	06/09/22 10:33	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell25-83-S-3-4-220606 Lab Sample ID: 860-27455-5

Date Collected: 06/06/22 10:28 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 17:41	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 20:17	T1S	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	56128	06/08/22 21:18	ANP	XEN STF
Total/NA	Analysis	300.0		1			56032	06/09/22 10:46	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell25-108-S-3-4-220606 Lab Sample ID: 860-27455-6

Date Collected: 06/06/22 10:56 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 18:01	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 20:36	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 04:32	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell25-26-S-3-4-220606 Lab Sample ID: 860-27455-7

Date Collected: 06/06/22 11:31 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 18:22	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 21:15	T1S	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-26-S-3-4-220606 Lab Sample ID: 860-27455-7

Date Collected: 06/06/22 11:31 **Matrix: Solid**
Date Received: 06/07/22 10:39

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			5.05 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 04:45	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell25-188-S-3-4-220606 Lab Sample ID: 860-27455-8

Date Collected: 06/06/22 11:50 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 18:42	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.88 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 21:34	T1S	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 04:58	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell21-46-S-3-4-220606 Lab Sample ID: 860-27455-9

Date Collected: 06/06/22 12:30 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56209	06/09/22 19:03	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 21:54	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 05:11	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell21-94-S-3-4-220606 Lab Sample ID: 860-27455-10

Date Collected: 06/06/22 12:40 **Matrix: Solid**
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56375	06/10/22 14:57	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 22:13	T1S	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 05:49	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27455-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-156-S-3-4-220606
Lab Sample ID: 860-27455-11
Date Collected: 06/06/22 13:00
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:41	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56721	06/14/22 00:48	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 22:32	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 06:02	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Client Sample ID: Cell21-41-S-3-4-220606
Lab Sample ID: 860-27455-12
Date Collected: 06/06/22 13:15
Matrix: Solid
Date Received: 06/07/22 10:39

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	56228	06/09/22 09:54	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56619	06/13/22 11:32	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57086	06/15/22 15:36	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	56887	06/14/22 15:15	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			56832	06/14/22 22:51	T1S	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	56368	06/09/22 20:20	ANP	XEN STF
Total/NA	Analysis	300.0		1			56244	06/10/22 06:15	WP	XEN STF
Total/NA	Analysis	Moisture		1			56225	06/08/22 17:21	JM	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-27455-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-46	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27455-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN STF = 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: 860-27455-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-27455-1	Cell26-168-S-3-4-220606	Solid	06/06/22 09:02	06/07/22 10:39
860-27455-2	Cell26-80-S-3-4-220606	Solid	06/06/22 09:21	06/07/22 10:39
860-27455-3	Cell26-111-S-3-4-220606	Solid	06/06/22 09:40	06/07/22 10:39
860-27455-4	Cell26-65-S-3-4-220606	Solid	06/06/22 09:55	06/07/22 10:39
860-27455-5	Cell25-83-S-3-4-220606	Solid	06/06/22 10:28	06/07/22 10:39
860-27455-6	Cell25-108-S-3-4-220606	Solid	06/06/22 10:56	06/07/22 10:39
860-27455-7	Cell25-26-S-3-4-220606	Solid	06/06/22 11:31	06/07/22 10:39
860-27455-8	Cell25-188-S-3-4-220606	Solid	06/06/22 11:50	06/07/22 10:39
860-27455-9	Cell21-46-S-3-4-220606	Solid	06/06/22 12:30	06/07/22 10:39
860-27455-10	Cell21-94-S-3-4-220606	Solid	06/06/22 12:40	06/07/22 10:39
860-27455-11	Cell21-156-S-3-4-220606	Solid	06/06/22 13:00	06/07/22 10:39
860-27455-12	Cell21-41-S-3-4-220606	Solid	06/06/22 13:15	06/07/22 10:39

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Terry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-10450-3621 1
Client Contact: Mr Steve Rice	Phone: 432-258-0825	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: steve.rice@arcadis.com	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	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)	8015MOD_NM (MOD) DRO and GRO	300_ORGFM_28D Chloride	8260C BTEX	moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N		
Cell 26-168-5-3-4-220606	060622	0907	G	Solid			X	X	X	X		
Cell 26-80-5-3-4-220606	060622	0921	G	Solid			X	X	X	X		
Cell 26-111-5-3-4-220606	060622	0948	G	Solid			X	X	X	X		
Cell 26-65-5-3-4-220606	060622	0955	G	Solid			X	X	X	X		
Cell 25-83-5-3-4-220606	060622	1028	G	Solid			X	X	X	X		
Cell 25-108-5-3-4-220606	060622	1057	G	Solid			X	X	X	X		
Cell 25-26-5-3-4-220606	060622	1151	G	Solid			X	X	X	X		
Cell 25-188-5-3-4-220606	060622	1150	G	Solid			X	X	X	X		
Cell 27-46-5-3-4-220606	060622	1230	G	Solid			X	X	X	X		
Cell 27-96-5-3-4-220606	060622	1240	G	Solid			X	X	X	X		
Cell 27-156-5-3-4-220606	060622	1330	G	Solid			X	X	X	X		

860-27455 Chain of Custody

Temp: 2.5 IR ID:HOU-323
C/F -0.0
Corrected Temp: 2.5

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: Terry S Longwell	Date/Time: 060622 1515	Company: ARCADIS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: YCRS	Date/Time: 6/7/22 1039	Company E
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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jerry Stoyanoff	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-10450-3621 1
Client Contact: Mr Steve Rice	Phone: 432-288-0878	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: steve.rice@arcadis.com	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
	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)	8016MOD_NM (MOD) DRO and GRO	300_ORGFM_28D Chloride	8260C BTEX	moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	N		
CS121-H1-3-3-4-220606	060622	815	G	Solid			X	X	X	X		
				Solid								
				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
	Jerry Stoyanoff	060622 / 1526	ARCADIS			
	Relinquished by:	Date/Time:	Company	Received by: YCRS	Date/Time: 6/7/22 1039	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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27455-1

Login Number: 27455 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27455-1

Login Number: 27455 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	Check done at department level as required.

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-27599-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer



Authorized for release by:
7/5/2022 3:53:07 PM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-27599-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
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 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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

Job ID: 860-27599-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-27599-1

REVISION

The report being provided is a revision of the original report sent on 6/20/2022. The report (revision 1) is being revised due to Sample IDs corrected for all samples.

Report revision history

Receipt
The samples were received on 6/8/2022 10:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

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

GC Semi VOA
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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

Client Sample ID: Cell20-176-S-3-4-220607 — Lab Sample ID: 860-27599-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.26	J	10.1	3.58	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-111-S-3-4-220607 — Lab Sample ID: 860-27599-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.2		10.1	3.58	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-71-S-3-4-220607 — Lab Sample ID: 860-27599-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	36.2		10.1	3.56	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell20-59-S-3-4-220607 — Lab Sample ID: 860-27599-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	71.3		10.0	3.55	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-149-S-3-4-220607 — Lab Sample ID: 860-27599-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.47	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-115-S-3-4-220607 — Lab Sample ID: 860-27599-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.33	J	9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-96-S-3-4-220607 — Lab Sample ID: 860-27599-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.75	J	9.92	3.51	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-203-S-3-4-220607 — Lab Sample ID: 860-27599-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.06	J	9.98	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell18-195-S-3-4-220607 — Lab Sample ID: 860-27599-9

No Detections.

Client Sample ID: Cell18-198-S-3-4-220607 — Lab Sample ID: 860-27599-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.23	J	9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell18-133-S-3-4-220607 — Lab Sample ID: 860-27599-11

No Detections.

Client Sample ID: Cell18-36-S-3-4-220607 — Lab Sample ID: 860-27599-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.50	J	10.0	3.55	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-154-S-3-4-220607 Lab Sample ID: 860-27599-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.46	J	10.1	3.56	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell17-178-S-3-4-220607 Lab Sample ID: 860-27599-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.70	J	9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell17-114-S-3-4-220607 Lab Sample ID: 860-27599-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.72	J	9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell17-59-S-3-4-220607 Lab Sample ID: 860-27599-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.00	J	9.92	3.51	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-176-S-3-4-220607 Lab Sample ID: 860-27599-1

Date Collected: 06/07/22 09:00 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000996	0.000206	mg/Kg		06/13/22 10:19	06/15/22 00:55	1
Toluene	0.000996	U	0.00498	0.000996	mg/Kg		06/13/22 10:19	06/15/22 00:55	1
Ethylbenzene	0.000334	U	0.000996	0.000334	mg/Kg		06/13/22 10:19	06/15/22 00:55	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		06/13/22 10:19	06/15/22 00:55	1
o-Xylene	0.000981	U	0.000996	0.000981	mg/Kg		06/13/22 10:19	06/15/22 00:55	1
Xylenes, Total	0.000981	U	0.00199	0.000981	mg/Kg		06/13/22 10:19	06/15/22 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*06/13/22 10:19*	*06/15/22 00:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*06/13/22 10:19*	*06/15/22 00:55*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*06/13/22 10:19*	*06/15/22 00:55*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 00:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000797	U	0.00199	0.000797	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.7	21.0	mg/Kg		06/16/22 12:32	06/16/22 21:02	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.7	21.0	mg/Kg		06/16/22 12:32	06/16/22 21:02	1
Oil Range Organics (Over C28-C36)	21.0	U	49.7	21.0	mg/Kg		06/16/22 12:32	06/16/22 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/16/22 12:32*	*06/16/22 21:02*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/16/22 12:32*	*06/16/22 21:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.26**	**J**	10.1	3.58	mg/Kg		06/16/22 21:33	06/17/22 03:03	1

Client Sample ID: Cell20-111-S-3-4-220607 Lab Sample ID: 860-27599-2

Date Collected: 06/07/22 09:20 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.000998	0.000207	mg/Kg		06/13/22 10:19	06/15/22 01:15	1
Toluene	0.000998	U	0.00499	0.000998	mg/Kg		06/13/22 10:19	06/15/22 01:15	1
Ethylbenzene	0.000335	U	0.000998	0.000335	mg/Kg		06/13/22 10:19	06/15/22 01:15	1
m,p-Xylenes	0.000798	U	0.00200	0.000798	mg/Kg		06/13/22 10:19	06/15/22 01:15	1
o-Xylene	0.000983	U	0.000998	0.000983	mg/Kg		06/13/22 10:19	06/15/22 01:15	1
Xylenes, Total	0.000983	U	0.00200	0.000983	mg/Kg		06/13/22 10:19	06/15/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*06/13/22 10:19*	*06/15/22 01:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 01:15*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*06/13/22 10:19*	*06/15/22 01:15*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 01:15*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-111-S-3-4-220607 Lab Sample ID: 860-27599-2

Date Collected: 06/07/22 09:20 **Matrix: Solid**
Date Received: 06/08/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000798	U	0.00200	0.000798	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 13:53	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 13:53	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*65 - 130*	*06/16/22 12:28*	*06/17/22 13:53*	*1*
o-Terphenyl	*109*		*65 - 130*	*06/16/22 12:28*	*06/17/22 13:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		10.1	3.58	mg/Kg		06/16/22 21:33	06/17/22 03:45	1

Client Sample ID: Cell20-71-S-3-4-220607 Lab Sample ID: 860-27599-3

Date Collected: 06/07/22 09:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/13/22 10:19	06/15/22 01:35	1
Toluene	0.00101	U	0.00505	0.00101	mg/Kg		06/13/22 10:19	06/15/22 01:35	1
Ethylbenzene	0.000339	U	0.00101	0.000339	mg/Kg		06/13/22 10:19	06/15/22 01:35	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		06/13/22 10:19	06/15/22 01:35	1
o-Xylene	0.000995	U	0.00101	0.000995	mg/Kg		06/13/22 10:19	06/15/22 01:35	1
Xylenes, Total	0.000995	U	0.00202	0.000995	mg/Kg		06/13/22 10:19	06/15/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/13/22 10:19*	*06/15/22 01:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/13/22 10:19*	*06/15/22 01:35*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/13/22 10:19*	*06/15/22 01:35*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/13/22 10:19*	*06/15/22 01:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000808	U	0.00202	0.000808	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:28	06/17/22 14:13	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:28	06/17/22 14:13	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:28	06/17/22 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:13*	*1*
o-Terphenyl	*113*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:13*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-71-S-3-4-220607
Lab Sample ID: 860-27599-3
Date Collected: 06/07/22 09:50
Matrix: Solid
Date Received: 06/08/22 10:34

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.2		10.1	3.56	mg/Kg		06/16/22 21:33	06/17/22 03:59	1

Client Sample ID: Cell20-59-S-3-4-220607
Lab Sample ID: 860-27599-4
Date Collected: 06/07/22 10:00
Matrix: Solid
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000206	U	0.000996	0.000206	mg/Kg		06/13/22 10:19	06/15/22 01:56	1
Toluene	0.000996	U	0.00498	0.000996	mg/Kg		06/13/22 10:19	06/15/22 01:56	1
Ethylbenzene	0.000334	U	0.000996	0.000334	mg/Kg		06/13/22 10:19	06/15/22 01:56	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		06/13/22 10:19	06/15/22 01:56	1
o-Xylene	0.000981	U	0.000996	0.000981	mg/Kg		06/13/22 10:19	06/15/22 01:56	1
Xylenes, Total	0.000981	U	0.00199	0.000981	mg/Kg		06/13/22 10:19	06/15/22 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*06/13/22 10:19*	*06/15/22 01:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/13/22 10:19*	*06/15/22 01:56*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/13/22 10:19*	*06/15/22 01:56*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*06/13/22 10:19*	*06/15/22 01:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000797	U	0.00199	0.000797	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 21:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 21:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*65 - 130*	*06/16/22 12:28*	*06/16/22 21:42*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/16/22 12:28*	*06/16/22 21:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		10.0	3.55	mg/Kg		06/16/22 21:33	06/17/22 04:12	1

Client Sample ID: Cell19-149-S-3-4-220607
Lab Sample ID: 860-27599-5
Date Collected: 06/07/22 10:15
Matrix: Solid
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		06/13/22 10:19	06/15/22 02:16	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		06/13/22 10:19	06/15/22 02:16	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 02:16	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		06/13/22 10:19	06/15/22 02:16	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		06/13/22 10:19	06/15/22 02:16	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-149-S-3-4-220607 Lab Sample ID: 860-27599-5

Date Collected: 06/07/22 10:15 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		06/13/22 10:19	06/15/22 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/22 10:19*	*06/15/22 02:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/13/22 10:19*	*06/15/22 02:16*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/13/22 10:19*	*06/15/22 02:16*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/13/22 10:19*	*06/15/22 02:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000805	U	0.00201	0.000805	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	U	50.4	21.3	mg/Kg		06/16/22 12:28	06/17/22 14:54	1
Diesel Range Organics (Over C10-C28)	21.3	U	50.4	21.3	mg/Kg		06/16/22 12:28	06/17/22 14:54	1
OII Range Organics (Over C28-C36)	21.3	U	50.4	21.3	mg/Kg		06/16/22 12:28	06/17/22 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:54*	*1*
o-Terphenyl	*110*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:54*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.47**	**J**	9.96	3.53	mg/Kg		06/16/22 21:33	06/17/22 04:26	1

Client Sample ID: Cell19-115-S-3-4-220607 Lab Sample ID: 860-27599-6

Date Collected: 06/07/22 10:30 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		06/13/22 10:19	06/15/22 02:37	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		06/13/22 10:19	06/15/22 02:37	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 02:37	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		06/13/22 10:19	06/15/22 02:37	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		06/13/22 10:19	06/15/22 02:37	1
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		06/13/22 10:19	06/15/22 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*06/13/22 10:19*	*06/15/22 02:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*06/13/22 10:19*	*06/15/22 02:37*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/13/22 10:19*	*06/15/22 02:37*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 02:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000805	U	0.00201	0.000805	mg/Kg			06/16/22 11:57	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-115-S-3-4-220607 Lab Sample ID: 860-27599-6

Date Collected: 06/07/22 10:30 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:14	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:14	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:14*	*1*
o-Terphenyl	*108*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.33**	**J**	9.90	3.50	mg/Kg		06/16/22 21:33	06/17/22 05:08	1

Client Sample ID: Cell19-96-S-3-4-220607 Lab Sample ID: 860-27599-7

Date Collected: 06/07/22 10:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000212	U	0.00102	0.000212	mg/Kg		06/13/22 10:19	06/15/22 02:57	1
Toluene	0.00102	U	0.00511	0.00102	mg/Kg		06/13/22 10:19	06/15/22 02:57	1
Ethylbenzene	0.000343	U	0.00102	0.000343	mg/Kg		06/13/22 10:19	06/15/22 02:57	1
m,p-Xylenes	0.000818	U	0.00204	0.000818	mg/Kg		06/13/22 10:19	06/15/22 02:57	1
o-Xylene	0.00101	U	0.00102	0.00101	mg/Kg		06/13/22 10:19	06/15/22 02:57	1
Xylenes, Total	0.00101	U	0.00204	0.00101	mg/Kg		06/13/22 10:19	06/15/22 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/13/22 10:19*	*06/15/22 02:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 02:57*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/13/22 10:19*	*06/15/22 02:57*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 02:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000818	U	0.00204	0.000818	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:55	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:55	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:55*	*1*
o-Terphenyl	*109*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.75**	**J**	9.92	3.51	mg/Kg		06/16/22 21:33	06/17/22 05:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-203-S-3-4-220607
Lab Sample ID: 860-27599-8
Date Collected: 06/07/22 11:05
Matrix: Solid
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg		06/13/22 10:19	06/15/22 03:18	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg		06/13/22 10:19	06/15/22 03:18	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg		06/13/22 10:19	06/15/22 03:18	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg		06/13/22 10:19	06/15/22 03:18	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg		06/13/22 10:19	06/15/22 03:18	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg		06/13/22 10:19	06/15/22 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*06/13/22 10:19*	*06/15/22 03:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*06/13/22 10:19*	*06/15/22 03:18*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/13/22 10:19*	*06/15/22 03:18*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 03:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:28	06/17/22 16:15	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:28	06/17/22 16:15	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:28	06/17/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/16/22 12:28*	*06/17/22 16:15*	*1*
o-Terphenyl	*109*		*65 - 130*	*06/16/22 12:28*	*06/17/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.06**	**J**	9.98	3.53	mg/Kg		06/16/22 21:33	06/17/22 05:35	1

Client Sample ID: Cell18-195-S-3-4-220607
Lab Sample ID: 860-27599-9
Date Collected: 06/07/22 11:45
Matrix: Solid
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg		06/13/22 10:19	06/15/22 03:38	1
Toluene	0.00100	U	0.00501	0.00100	mg/Kg		06/13/22 10:19	06/15/22 03:38	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg		06/13/22 10:19	06/15/22 03:38	1
m,p-Xylenes	0.000802	U	0.00200	0.000802	mg/Kg		06/13/22 10:19	06/15/22 03:38	1
o-Xylene	0.000987	U	0.00100	0.000987	mg/Kg		06/13/22 10:19	06/15/22 03:38	1
Xylenes, Total	0.000987	U	0.00200	0.000987	mg/Kg		06/13/22 10:19	06/15/22 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/22 10:19*	*06/15/22 03:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 03:38*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*06/13/22 10:19*	*06/15/22 03:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 03:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-195-S-3-4-220607 Lab Sample ID: 860-27599-9

Date Collected: 06/07/22 11:45 **Matrix: Solid**
Date Received: 06/08/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000802	U	0.00200	0.000802	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/17/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:42*	*1*
o-Terphenyl	*102*		*65 - 130*	*06/16/22 12:28*	*06/17/22 14:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.52	U	9.94	3.52	mg/Kg		06/16/22 21:33	06/17/22 05:49	1

Client Sample ID: Cell18-198-S-3-4-220607 Lab Sample ID: 860-27599-10

Date Collected: 06/07/22 12:00 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.000998	0.000207	mg/Kg		06/13/22 10:19	06/15/22 03:59	1
Toluene	0.000998	U	0.00499	0.000998	mg/Kg		06/13/22 10:19	06/15/22 03:59	1
Ethylbenzene	0.000335	U	0.000998	0.000335	mg/Kg		06/13/22 10:19	06/15/22 03:59	1
m,p-Xylenes	0.000798	U	0.00200	0.000798	mg/Kg		06/13/22 10:19	06/15/22 03:59	1
o-Xylene	0.000983	U	0.000998	0.000983	mg/Kg		06/13/22 10:19	06/15/22 03:59	1
Xylenes, Total	0.000983	U	0.00200	0.000983	mg/Kg		06/13/22 10:19	06/15/22 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/22 10:19*	*06/15/22 03:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 03:59*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/13/22 10:19*	*06/15/22 03:59*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 03:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000798	U	0.00200	0.000798	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:02	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:02	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:02*	*1*
o-Terphenyl	*102*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:02*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-198-S-3-4-220607 Lab Sample ID: 860-27599-10
Date Collected: 06/07/22 12:00 **Matrix: Solid**
Date Received: 06/08/22 10:34

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.23	J	9.90	3.50	mg/Kg		06/16/22 21:33	06/17/22 06:03	1

Client Sample ID: Cell18-133-S-3-4-220607 Lab Sample ID: 860-27599-11
Date Collected: 06/07/22 12:15 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg		06/13/22 10:19	06/15/22 04:19	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg		06/13/22 10:19	06/15/22 04:19	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg		06/13/22 10:19	06/15/22 04:19	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg		06/13/22 10:19	06/15/22 04:19	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg		06/13/22 10:19	06/15/22 04:19	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg		06/13/22 10:19	06/15/22 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*06/13/22 10:19*	*06/15/22 04:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 04:19*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/13/22 10:19*	*06/15/22 04:19*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/13/22 10:19*	*06/15/22 04:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:21	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:21	1
OII Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:21*	*1*
o-Terphenyl	*100*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.51	U	9.92	3.51	mg/Kg		06/16/22 21:33	06/17/22 06:17	1

Client Sample ID: Cell18-36-S-3-4-220607 Lab Sample ID: 860-27599-12
Date Collected: 06/07/22 12:30 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/13/22 10:19	06/15/22 04:39	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/13/22 10:19	06/15/22 04:39	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 04:39	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/13/22 10:19	06/15/22 04:39	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/13/22 10:19	06/15/22 04:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-36-S-3-4-220607 Lab Sample ID: 860-27599-12

Date Collected: 06/07/22 12:30 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/13/22 10:19	06/15/22 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/22 10:19*	*06/15/22 04:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 04:39*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*06/13/22 10:19*	*06/15/22 04:39*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*06/13/22 10:19*	*06/15/22 04:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000806	U	0.00202	0.000806	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:41	1
Oil Range Organics (Over C28-C36)	21.1	U	50.1	21.1	mg/Kg		06/16/22 12:28	06/17/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:41*	*1*
o-Terphenyl	*101*		*65 - 130*	*06/16/22 12:28*	*06/17/22 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.50**	**J**	10.0	3.55	mg/Kg		06/16/22 21:33	06/17/22 06:58	1

Client Sample ID: Cell17-154-S-3-4-220607 Lab Sample ID: 860-27599-13

Date Collected: 06/07/22 12:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/13/22 10:19	06/15/22 05:00	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/13/22 10:19	06/15/22 05:00	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 05:00	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/13/22 10:19	06/15/22 05:00	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/13/22 10:19	06/15/22 05:00	1
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/13/22 10:19	06/15/22 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*06/13/22 10:19*	*06/15/22 05:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/13/22 10:19*	*06/15/22 05:00*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/13/22 10:19*	*06/15/22 05:00*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 05:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000806	U	0.00202	0.000806	mg/Kg			06/16/22 11:57	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-154-S-3-4-220607 Lab Sample ID: 860-27599-13

Date Collected: 06/07/22 12:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:32	06/17/22 14:42	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:32	06/17/22 14:42	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:32	06/17/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*65 - 130*	*06/16/22 12:32*	*06/17/22 14:42*	*1*
o-Terphenyl	*104*		*65 - 130*	*06/16/22 12:32*	*06/17/22 14:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.46**	**J**	10.1	3.56	mg/Kg		06/16/22 21:33	06/17/22 07:12	1

Client Sample ID: Cell17-178-S-3-4-220607 Lab Sample ID: 860-27599-14

Date Collected: 06/07/22 13:05 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000208	U	0.00101	0.000208	mg/Kg		06/13/22 10:19	06/15/22 05:20	1
Toluene	0.00101	U	0.00503	0.00101	mg/Kg		06/13/22 10:19	06/15/22 05:20	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 05:20	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		06/13/22 10:19	06/15/22 05:20	1
o-Xylene	0.000991	U	0.00101	0.000991	mg/Kg		06/13/22 10:19	06/15/22 05:20	1
Xylenes, Total	0.000991	U	0.00201	0.000991	mg/Kg		06/13/22 10:19	06/15/22 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*06/13/22 10:19*	*06/15/22 05:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*06/13/22 10:19*	*06/15/22 05:20*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*06/13/22 10:19*	*06/15/22 05:20*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*06/13/22 10:19*	*06/15/22 05:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000805	U	0.00201	0.000805	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.4	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:02	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.4	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:02	1
Oil Range Organics (Over C28-C36)	21.2	U	50.4	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:02*	*1*
o-Terphenyl	*105*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.70**	**J**	9.90	3.50	mg/Kg		06/16/22 21:33	06/17/22 07:54	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-114-S-3-4-220607 Lab Sample ID: 860-27599-15

Date Collected: 06/07/22 13:25 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000209	U	0.00101	0.000209	mg/Kg		06/13/22 10:19	06/15/22 14:01	1
Toluene	0.00101	U	0.00504	0.00101	mg/Kg		06/13/22 10:19	06/15/22 14:01	1
Ethylbenzene	0.000338	U	0.00101	0.000338	mg/Kg		06/13/22 10:19	06/15/22 14:01	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		06/13/22 10:19	06/15/22 14:01	1
o-Xylene	0.000993	U	0.00101	0.000993	mg/Kg		06/13/22 10:19	06/15/22 14:01	1
Xylenes, Total	0.000993	U	0.00202	0.000993	mg/Kg		06/13/22 10:19	06/15/22 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*06/13/22 10:19*	*06/15/22 14:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*06/13/22 10:19*	*06/15/22 14:01*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/13/22 10:19*	*06/15/22 14:01*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*06/13/22 10:19*	*06/15/22 14:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000806	U	0.00202	0.000806	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:21	1
Diesel Range Organics (Over C10-C28)	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:21	1
Oil Range Organics (Over C28-C36)	21.2	U	50.2	21.2	mg/Kg		06/16/22 12:32	06/17/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:21*	*1*
o-Terphenyl	*104*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.72**	**J**	9.96	3.53	mg/Kg		06/16/22 21:33	06/17/22 08:08	1

Client Sample ID: Cell17-59-S-3-4-220607 Lab Sample ID: 860-27599-16

Date Collected: 06/07/22 13:45 **Matrix: Solid**
Date Received: 06/08/22 10:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg		06/13/22 10:19	06/15/22 14:22	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg		06/13/22 10:19	06/15/22 14:22	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg		06/13/22 10:19	06/15/22 14:22	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg		06/13/22 10:19	06/15/22 14:22	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg		06/13/22 10:19	06/15/22 14:22	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg		06/13/22 10:19	06/15/22 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*06/13/22 10:19*	*06/15/22 14:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*06/13/22 10:19*	*06/15/22 14:22*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*06/13/22 10:19*	*06/15/22 14:22*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*06/13/22 10:19*	*06/15/22 14:22*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-59-S-3-4-220607 Lab Sample ID: 860-27599-16

Date Collected: 06/07/22 13:45 **Matrix: Solid**
Date Received: 06/08/22 10:34

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			06/16/22 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:32	06/17/22 15:41	1
Diesel Range Organics (Over C10-C28)	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:32	06/17/22 15:41	1
Oil Range Organics (Over C28-C36)	21.0	U	49.8	21.0	mg/Kg		06/16/22 12:32	06/17/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:41*	*1*
o-Terphenyl	*102*		*65 - 130*	*06/16/22 12:32*	*06/17/22 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.00**	**J**	9.92	3.51	mg/Kg		06/16/22 21:33	06/17/22 08:22	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

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)
860-27599-1	Cell20-176-S-3-4-220607	97	96	95	96
860-27599-2	Cell20-111-S-3-4-220607	98	100	96	96
860-27599-3	Cell20-71-S-3-4-220607	102	99	97	97
860-27599-4	Cell20-59-S-3-4-220607	102	99	97	95
860-27599-5	Cell19-149-S-3-4-220607	105	99	98	94
860-27599-6	Cell19-115-S-3-4-220607	101	101	100	96
860-27599-7	Cell19-96-S-3-4-220607	107	100	100	96
860-27599-8	Cell19-203-S-3-4-220607	106	99	100	96
860-27599-9	Cell18-195-S-3-4-220607	105	100	100	96
860-27599-10	Cell18-198-S-3-4-220607	105	100	98	96
860-27599-11	Cell18-133-S-3-4-220607	107	100	98	94
860-27599-12	Cell18-36-S-3-4-220607	105	100	98	93
860-27599-13	Cell17-154-S-3-4-220607	104	98	97	96
860-27599-14	Cell17-178-S-3-4-220607	105	100	99	94
860-27599-15	Cell17-114-S-3-4-220607	103	97	97	97
860-27599-16	Cell17-59-S-3-4-220607	100	98	97	96
LCS 860-56897/3	Lab Control Sample	97	100	100	100
LCS 860-56968/3	Lab Control Sample	98	100	100	99
LCSD 860-56897/4	Lab Control Sample Dup	98	98	99	99
LCSD 860-56968/4	Lab Control Sample Dup	98	102	100	95
MB 860-56897/8	Method Blank	100	97	96	96
MB 860-56968/8	Method Blank	103	100	97	95

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-27599-1	Cell20-176-S-3-4-220607	101	111
860-27599-2	Cell20-111-S-3-4-220607	97	109
860-27599-3	Cell20-71-S-3-4-220607	101	113
860-27599-4	Cell20-59-S-3-4-220607	102	111
860-27599-5	Cell19-149-S-3-4-220607	99	110
860-27599-6	Cell19-115-S-3-4-220607	95	108
860-27599-7	Cell19-96-S-3-4-220607	99	109
860-27599-8	Cell19-203-S-3-4-220607	98	109
860-27599-9	Cell18-195-S-3-4-220607	99	102
860-27599-10	Cell18-198-S-3-4-220607	99	102
860-27599-11	Cell18-133-S-3-4-220607	98	100
860-27599-12	Cell18-36-S-3-4-220607	99	101
860-27599-13	Cell17-154-S-3-4-220607	103	104
860-27599-14	Cell17-178-S-3-4-220607	101	105
860-27599-15	Cell17-114-S-3-4-220607	102	104

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)								
860-27599-16	Cell17-59-S-3-4-220607	101	102								
LCS 860-57227/2-A	Lab Control Sample	92	94								
LCSD 860-57227/3-A	Lab Control Sample Dup	95	102								
MB 860-57227/1-A	Method Blank	91	103								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

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

Lab Sample ID: MB 860-56897/8
Matrix: Solid
Analysis Batch: 56897

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/14/22 22:52	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/14/22 22:52	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/14/22 22:52	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/14/22 22:52	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/14/22 22:52	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/14/22 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*		*06/14/22 22:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*		*06/14/22 22:52*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*06/14/22 22:52*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*06/14/22 22:52*	*1*

Lab Sample ID: LCS 860-56897/3
Matrix: Solid
Analysis Batch: 56897

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	0.04383		mg/Kg		88	66 - 142
Toluene	0.0500	0.04427		mg/Kg		89	74 - 130
Ethylbenzene	0.0500	0.04622		mg/Kg		92	80 - 130
m,p-Xylenes	0.0500	0.04696		mg/Kg		94	78 - 130
o-Xylene	0.0500	0.04910		mg/Kg		98	79 - 130

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

Lab Sample ID: LCSD 860-56897/4
Matrix: Solid
Analysis Batch: 56897

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	0.04512		mg/Kg		90	66 - 142	3	25
Toluene	0.0500	0.04419		mg/Kg		88	74 - 130	0	25
Ethylbenzene	0.0500	0.04656		mg/Kg		93	80 - 130	1	25
m,p-Xylenes	0.0500	0.04767		mg/Kg		95	78 - 130	2	25
o-Xylene	0.0500	0.04865		mg/Kg		97	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*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: 860-27599-1

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

Lab Sample ID: MB 860-56968/8
Matrix: Solid
Analysis Batch: 56968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000207	U	0.00100	0.000207	mg/Kg			06/15/22 11:01	1
Toluene	0.00100	U	0.00500	0.00100	mg/Kg			06/15/22 11:01	1
Ethylbenzene	0.000336	U	0.00100	0.000336	mg/Kg			06/15/22 11:01	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			06/15/22 11:01	1
o-Xylene	0.000985	U	0.00100	0.000985	mg/Kg			06/15/22 11:01	1
Xylenes, Total	0.000985	U	0.00200	0.000985	mg/Kg			06/15/22 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*06/15/22 11:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*06/15/22 11:01*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*06/15/22 11:01*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*06/15/22 11:01*	*1*

Lab Sample ID: LCS 860-56968/3
Matrix: Solid
Analysis Batch: 56968

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	0.05099		mg/Kg		102	66 - 142
Toluene	0.0500	0.05081		mg/Kg		102	74 - 130
Ethylbenzene	0.0500	0.05267		mg/Kg		105	80 - 130
m,p-Xylenes	0.0500	0.05342		mg/Kg		107	78 - 130
o-Xylene	0.0500	0.05390		mg/Kg		108	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 860-56968/4
Matrix: Solid
Analysis Batch: 56968

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	0.04586		mg/Kg		92	66 - 142	11	25
Toluene	0.0500	0.04418		mg/Kg		88	74 - 130	14	25
Ethylbenzene	0.0500	0.04779		mg/Kg		96	80 - 130	10	25
m,p-Xylenes	0.0500	0.04814		mg/Kg		96	78 - 130	10	25
o-Xylene	0.0500	0.04836		mg/Kg		97	79 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*95*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

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

Lab Sample ID: MB 860-57227/1-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*65 - 130*	*06/16/22 12:28*	*06/16/22 18:41*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/16/22 12:28*	*06/16/22 18:41*	*1*

Lab Sample ID: LCS 860-57227/2-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 135
Diesel Range Organics (Over C10-C28)	997	979.5		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*65 - 130*
o-Terphenyl	*94*		*65 - 130*

Lab Sample ID: LCSD 860-57227/3-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57227

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1042		mg/Kg		104	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	997	1030		mg/Kg		103	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*65 - 130*
o-Terphenyl	*102*		*65 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-57321/1-A
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/16/22 21:33	06/17/22 02:22	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-57321/2-A
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57321

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	93.24		mg/Kg		93	80 - 120		

Lab Sample ID: LCSD 860-57321/3-A
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57321

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	92.86		mg/Kg		93	80 - 120	0	20

Lab Sample ID: 860-27599-1 MS
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Cell20-176-S-3-4-220607
Prep Type: Total/NA
Prep Batch: 57321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.26	J	100	99.71		mg/Kg		95	80 - 120		

Lab Sample ID: 860-27599-1 MSD
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Cell20-176-S-3-4-220607
Prep Type: Total/NA
Prep Batch: 57321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.26	J	100	99.71		mg/Kg		95	80 - 120	0	20

Lab Sample ID: 860-27599-11 MS
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Cell18-133-S-3-4-220607
Prep Type: Total/NA
Prep Batch: 57321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3.51	U	100	97.17		mg/Kg		97	80 - 120		

Lab Sample ID: 860-27599-11 MSD
Matrix: Solid
Analysis Batch: 57282

Client Sample ID: Cell18-133-S-3-4-220607
Prep Type: Total/NA
Prep Batch: 57321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.51	U	100	97.13		mg/Kg		97	80 - 120	0	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS VOA

Prep Batch: 56657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	5030C	
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	5030C	

Analysis Batch: 56897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	8260C	56657
MB 860-56897/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-56897/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56897/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 56968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	8260C	56657
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	8260C	56657
MB 860-56968/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-56968/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-56968/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 57221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

GC/MS VOA (Continued)

Analysis Batch: 57221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	Total BTEX	
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 57178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57227/1-A	Method Blank	Total/NA	Solid	8015B NM	57227
LCS 860-57227/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57227
LCSD 860-57227/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57227

Analysis Batch: 57182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	8015B NM	57227

Prep Batch: 57227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	8015NM Prep	
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	8015NM Prep	
MB 860-57227/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-57227/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-57227/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	8015B NM	57227

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

GC Semi VOA (Continued)

Analysis Batch: 57376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	8015B NM	57227

Analysis Batch: 57379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	8015B NM	57227

Analysis Batch: 57383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	8015B NM	57227
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	8015B NM	57227

HPLC/IC

Analysis Batch: 57282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	300.0	57321
MB 860-57321/1-A	Method Blank	Total/NA	Solid	300.0	57321
LCS 860-57321/2-A	Lab Control Sample	Total/NA	Solid	300.0	57321
LCSD 860-57321/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	57321
860-27599-1 MS	Cell20-176-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-1 MSD	Cell20-176-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-11 MS	Cell18-133-S-3-4-220607	Total/NA	Solid	300.0	57321
860-27599-11 MSD	Cell18-133-S-3-4-220607	Total/NA	Solid	300.0	57321

Prep Batch: 57321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	300_Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

HPLC/IC (Continued)

Prep Batch: 57321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	300_Prep	
MB 860-57321/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-57321/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-57321/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-27599-1 MS	Cell20-176-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-1 MSD	Cell20-176-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-11 MS	Cell18-133-S-3-4-220607	Total/NA	Solid	300_Prep	
860-27599-11 MSD	Cell18-133-S-3-4-220607	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 56310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-1	Cell20-176-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-2	Cell20-111-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-3	Cell20-71-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-4	Cell20-59-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-5	Cell19-149-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-6	Cell19-115-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-7	Cell19-96-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-8	Cell19-203-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-9	Cell18-195-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-10	Cell18-198-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-11	Cell18-133-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-12	Cell18-36-S-3-4-220607	Total/NA	Solid	Moisture	
MB 860-56310/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 56397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27599-13	Cell17-154-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-14	Cell17-178-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-15	Cell17-114-S-3-4-220607	Total/NA	Solid	Moisture	
860-27599-16	Cell17-59-S-3-4-220607	Total/NA	Solid	Moisture	
MB 860-56397/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-176-S-3-4-220607
Lab Sample ID: 860-27599-1
Date Collected: 06/07/22 09:00
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 00:55	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57182	06/16/22 21:02	W1N	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 03:03	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell20-111-S-3-4-220607
Lab Sample ID: 860-27599-2
Date Collected: 06/07/22 09:20
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 01:15	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 13:53	SAR	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 03:45	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell20-71-S-3-4-220607
Lab Sample ID: 860-27599-3
Date Collected: 06/07/22 09:50
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 01:35	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 14:13	SAR	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 03:59	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell20-59-S-3-4-220607
Lab Sample ID: 860-27599-4
Date Collected: 06/07/22 10:00
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 01:56	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-59-S-3-4-220607 Lab Sample ID: 860-27599-4

Date Collected: 06/07/22 10:00 **Matrix: Solid**
Date Received: 06/08/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57182	06/16/22 21:42	W1N	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 04:12	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell19-149-S-3-4-220607 Lab Sample ID: 860-27599-5

Date Collected: 06/07/22 10:15 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 02:16	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 14:54	SAR	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 04:26	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell19-115-S-3-4-220607 Lab Sample ID: 860-27599-6

Date Collected: 06/07/22 10:30 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 02:37	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 15:14	SAR	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 05:08	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell19-96-S-3-4-220607 Lab Sample ID: 860-27599-7

Date Collected: 06/07/22 10:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.89 g	5 mL	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 02:57	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 15:55	SAR	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-96-S-3-4-220607 Lab Sample ID: 860-27599-7

Date Collected: 06/07/22 10:50 **Matrix: Solid**
Date Received: 06/08/22 10:34

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			5.04 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 05:22	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell19-203-S-3-4-220607 Lab Sample ID: 860-27599-8

Date Collected: 06/07/22 11:05 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 03:18	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 16:15	SAR	XEN STF
Total/NA	Prep	300_Prep			5.01 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 05:35	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell18-195-S-3-4-220607 Lab Sample ID: 860-27599-9

Date Collected: 06/07/22 11:45 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 03:38	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57376	06/17/22 14:42	SAR	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 05:49	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell18-198-S-3-4-220607 Lab Sample ID: 860-27599-10

Date Collected: 06/07/22 12:00 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 03:59	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57376	06/17/22 15:02	SAR	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 06:03	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-133-S-3-4-220607
Lab Sample ID: 860-27599-11
Date Collected: 06/07/22 12:15
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 04:19	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57376	06/17/22 15:21	SAR	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 06:17	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell18-36-S-3-4-220607
Lab Sample ID: 860-27599-12
Date Collected: 06/07/22 12:30
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 04:39	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57376	06/17/22 15:41	SAR	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 06:58	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56310	06/09/22 12:55	JM	XEN STF

Client Sample ID: Cell17-154-S-3-4-220607
Lab Sample ID: 860-27599-13
Date Collected: 06/07/22 12:50
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 05:00	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57379	06/17/22 14:42	SAR	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 07:12	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56397	06/09/22 18:02	JM	XEN STF

Client Sample ID: Cell17-178-S-3-4-220607
Lab Sample ID: 860-27599-14
Date Collected: 06/07/22 13:05
Matrix: Solid
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56897	06/15/22 05:20	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-178-S-3-4-220607 Lab Sample ID: 860-27599-14

Date Collected: 06/07/22 13:05 **Matrix: Solid**
Date Received: 06/08/22 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57379	06/17/22 15:02	SAR	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 07:54	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56397	06/09/22 18:02	JM	XEN STF

Client Sample ID: Cell17-114-S-3-4-220607 Lab Sample ID: 860-27599-15

Date Collected: 06/07/22 13:25 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56968	06/15/22 14:01	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57379	06/17/22 15:21	SAR	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 08:08	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56397	06/09/22 18:02	JM	XEN STF

Client Sample ID: Cell17-59-S-3-4-220607 Lab Sample ID: 860-27599-16

Date Collected: 06/07/22 13:45 **Matrix: Solid**
Date Received: 06/08/22 10:34

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	56657	06/13/22 10:19	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	56968	06/15/22 14:22	MTMG	XEN STF
Total/NA	Analysis	Total BTEX		1			57221	06/16/22 11:57	MTMG	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57379	06/17/22 15:41	SAR	XEN STF
Total/NA	Prep	300_Prep			5.04 g	50 mL	57321	06/16/22 21:33	ANP	XEN STF
Total/NA	Analysis	300.0		1			57282	06/17/22 08:22	ANP	XEN STF
Total/NA	Analysis	Moisture		1			56397	06/09/22 18:02	JM	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-27599-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-46	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27599-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5030C	Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN STF = 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: 860-27599-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-27599-1	Cell20-176-S-3-4-220607	Solid	06/07/22 09:00	06/08/22 10:34
860-27599-2	Cell20-111-S-3-4-220607	Solid	06/07/22 09:20	06/08/22 10:34
860-27599-3	Cell20-71-S-3-4-220607	Solid	06/07/22 09:50	06/08/22 10:34
860-27599-4	Cell20-59-S-3-4-220607	Solid	06/07/22 10:00	06/08/22 10:34
860-27599-5	Cell19-149-S-3-4-220607	Solid	06/07/22 10:15	06/08/22 10:34
860-27599-6	Cell19-115-S-3-4-220607	Solid	06/07/22 10:30	06/08/22 10:34
860-27599-7	Cell19-96-S-3-4-220607	Solid	06/07/22 10:50	06/08/22 10:34
860-27599-8	Cell19-203-S-3-4-220607	Solid	06/07/22 11:05	06/08/22 10:34
860-27599-9	Cell18-195-S-3-4-220607	Solid	06/07/22 11:45	06/08/22 10:34
860-27599-10	Cell18-198-S-3-4-220607	Solid	06/07/22 12:00	06/08/22 10:34
860-27599-11	Cell18-133-S-3-4-220607	Solid	06/07/22 12:15	06/08/22 10:34
860-27599-12	Cell18-36-S-3-4-220607	Solid	06/07/22 12:30	06/08/22 10:34
860-27599-13	Cell17-154-S-3-4-220607	Solid	06/07/22 12:50	06/08/22 10:34
860-27599-14	Cell17-178-S-3-4-220607	Solid	06/07/22 13:05	06/08/22 10:34
860-27599-15	Cell17-114-S-3-4-220607	Solid	06/07/22 13:25	06/08/22 10:34
860-27599-16	Cell17-59-S-3-4-220607	Solid	06/07/22 13:45	06/08/22 10:34

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

860-27599 Chain of Custody

eurofins | Environment Testing America

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin	COC No: 360-10450-3621 1
Client Contact: Mr Steve Rice	Phone: 432-288-0875	E-Mail: Sachin Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: steve.rice@arcadis.com	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	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)	8015MOD_NM (MOD) DRO and GRO	300_ORGFM_28D Chloride	8260C BTEX	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 20-176-S-3-4-220607	06/07/22	900	G	Solid			X	X	X	X		
Cell 20-111-S-3-4-220607	06/07/22	920	G	Solid			X	X	X	X		
Cell 20-71-S-3-4-220607	06/07/22	950	G	Solid			X	X	X	X		
Cell 20-59-S 3-4-220607	06/07/22	1000	G	Solid			X	X	X	X		
Cell 19-149-S 3 4-220607	06/07/22	1015	G	Solid			X	X	X	X		
Cell 19-115-S-3-4-220607	06/07/22	1030	G	Solid			X	X	X	X		
Cell 19-96-S-3-4-220607	06/07/22	1050	G	Solid			X	X	X	X		
Cell 19-203-S-3-4-220607	06/07/22	1105	G	Solid			X	X	X	X		
Cell 18 195-S-3-4-220607	06/07/22	1145	G	Solid			X	X	X	X		
Cell 18-198-S-3-4-220607	06/07/22	1200	G	Solid			X	X	X	X		
Cell 18-133-S-3-4-220607	06/07/22	1215	G	Solid			X	X	X	X		

IR ID:HOU-332
Temp: 3.8
C/F: -0.2
Corrected Temp: 3.6

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	06/07/22 1540	ARCADIS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				6/8/22 1034	
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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-10450-3621 1
Client Contact: Mr Steve Rice	Phone: 432-283-0879	E-Mail: Sachin Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 303-316-6506(Tel)	PO #:			
Email: steve.rice@arcadis.com	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	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)	8015MOD_NM (MOD) DRO and GRO	300_ORGFM_28D Chloride	8260C BTEX	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 18-36-S-34-220607	06/07/22	1230	G	Solid			X	X	X	X		
Cell 17-154-S-3-4-220607	06/07/22	1250	G	Solid			X	X	X	X		
Cell 17-178-S-3-4-220607	06/07/22	1305	G	Solid			X	X	X	X		
Cell-17-114-S-3-4-220607	06/07/22	1325	G	Solid			X	X	X	X		
Cell-17-59-S-3-4-220607	06/07/22	1345	G	Solid			X	X	X	X		
				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
1	Jerry S. Longwell	06/07/22 1540	ARCADIS			
2					6/8/22 1034	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27599-1

Login Number: 27599 **List Source: Eurofins Houston**
List Number: 1
Creator: Milone, Jeancarlo

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27599-1

Login Number: 27599 **List Source: Eurofins Houston**
List Number: 2
Creator: Milone, Jeancarlo

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.		

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-27753-1
Client Project/Site: Chevron - Jal Land Farm Soils
Revision: 1

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
7/5/2022 4:04:08 PM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-27753-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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
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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

Job ID: 860-27753-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-27753-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 6/21/2022. The report (revision 1) is being revised due to: Sample IDs corrected for all samples.

Receipt
The samples were received on 6/10/2022 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 300.0, 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-57417 and 860-57417 and analytical batch 860-57414 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.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

Client Sample ID: Cell 26-treatment-S-6-220608 — Lab Sample ID: 860-27753-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.58	J	10.7	3.80	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 25-treatment-S-6-220608 — Lab Sample ID: 860-27753-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.2	J	10.6	3.76	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 21-treatment-S-6-220608 — Lab Sample ID: 860-27753-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	89.1		52.8	22.3	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	7.52	J	10.6	3.74	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 17-treatment-S-6-220609 — Lab Sample ID: 860-27753-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	84.6		10.8	3.83	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 18-treatment-S-6-220609 — Lab Sample ID: 860-27753-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.89	J	10.7	3.78	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 19-treatment-S-6-220609 — Lab Sample ID: 860-27753-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (Over C10-C28)	31.2	J	53.5	22.6	mg/Kg	1	☼	8015B NM	Total/NA
Chloride	20.8		10.8	3.82	mg/Kg	1	☼	300.0	Total/NA

Client Sample ID: Cell 20-treatment-S-6-220609 — Lab Sample ID: 860-27753-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.78	J	11.1	3.92	mg/Kg	1	☼	300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-treatment-S-6-220608
Lab Sample ID: 860-27753-1
Date Collected: 06/08/22 10:00
Matrix: Solid
Date Received: 06/10/22 13:10
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	U	53.4	22.5	mg/Kg	☼	06/17/22 14:05	06/18/22 05:25	1
Diesel Range Organics (Over C10-C28)	22.5	U	53.4	22.5	mg/Kg	☼	06/17/22 14:05	06/18/22 05:25	1
Oil Range Organics (Over C28-C36)	22.5	U	53.4	22.5	mg/Kg	☼	06/17/22 14:05	06/18/22 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*65 - 130*	*06/17/22 14:05*	*06/18/22 05:25*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/17/22 14:05*	*06/18/22 05:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.58**	**J**	10.7	3.80	mg/Kg	☼	06/17/22 12:32	06/17/22 23:38	1

Client Sample ID: Cell 25-treatment-S-6-220608
Lab Sample ID: 860-27753-2
Date Collected: 06/08/22 12:40
Matrix: Solid
Date Received: 06/10/22 13:10
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.2	U	52.6	22.2	mg/Kg	☼	06/16/22 12:32	06/16/22 22:02	1
Diesel Range Organics (Over C10-C28)	22.2	U	52.6	22.2	mg/Kg	☼	06/16/22 12:32	06/16/22 22:02	1
Oil Range Organics (Over C28-C36)	22.2	U	52.6	22.2	mg/Kg	☼	06/16/22 12:32	06/16/22 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*65 - 130*	*06/16/22 12:32*	*06/16/22 22:02*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/16/22 12:32*	*06/16/22 22:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.2**	**J**	10.6	3.76	mg/Kg	☼	06/17/22 12:32	06/17/22 23:52	1

Client Sample ID: Cell 21-treatment-S-6-220608
Lab Sample ID: 860-27753-3
Date Collected: 06/08/22 13:30
Matrix: Solid
Date Received: 06/10/22 13:10
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.3	U	52.8	22.3	mg/Kg	☼	06/16/22 12:32	06/17/22 16:15	1
Diesel Range Organics (Over C10-C28)	**89.1**		52.8	22.3	mg/Kg	☼	06/16/22 12:32	06/17/22 16:15	1
Oil Range Organics (Over C28-C36)	22.3	U	52.8	22.3	mg/Kg	☼	06/16/22 12:32	06/17/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*65 - 130*	*06/16/22 12:32*	*06/17/22 16:15*	*1*
o-Terphenyl	*101*		*65 - 130*	*06/16/22 12:32*	*06/17/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.52**	**J**	10.6	3.74	mg/Kg	☼	06/17/22 12:32	06/18/22 00:33	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-treatment-S-6-220609 Lab Sample ID: 860-27753-4

Date Collected: 06/09/22 07:55 **Matrix: Solid**
Date Received: 06/10/22 13:10 **Percent Solids: 93.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.6	U	53.7	22.6	mg/Kg	☼	06/16/22 12:32	06/21/22 01:32	1
Diesel Range Organics (Over C10-C28)	22.6	U	53.7	22.6	mg/Kg	☼	06/16/22 12:32	06/21/22 01:32	1
Oil Range Organics (Over C28-C36)	22.6	U	53.7	22.6	mg/Kg	☼	06/16/22 12:32	06/21/22 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*65 - 130*	*06/16/22 12:32*	*06/21/22 01:32*	*1*
o-Terphenyl	*110*		*65 - 130*	*06/16/22 12:32*	*06/21/22 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.6**		10.8	3.83	mg/Kg	☼	06/17/22 12:32	06/18/22 00:47	1

Client Sample ID: Cell 18-treatment-S-6-220609 Lab Sample ID: 860-27753-5

Date Collected: 06/09/22 09:00 **Matrix: Solid**
Date Received: 06/10/22 13:10 **Percent Solids: 93.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.4	U	53.1	22.4	mg/Kg	☼	06/17/22 14:05	06/18/22 04:26	1
Diesel Range Organics (Over C10-C28)	22.4	U	53.1	22.4	mg/Kg	☼	06/17/22 14:05	06/18/22 04:26	1
Oil Range Organics (Over C28-C36)	22.4	U	53.1	22.4	mg/Kg	☼	06/17/22 14:05	06/18/22 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*65 - 130*	*06/17/22 14:05*	*06/18/22 04:26*	*1*
o-Terphenyl	*108*		*65 - 130*	*06/17/22 14:05*	*06/18/22 04:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.89**	**J**	10.7	3.78	mg/Kg	☼	06/17/22 12:32	06/18/22 01:01	1

Client Sample ID: Cell 19-treatment-S-6-220609 Lab Sample ID: 860-27753-6

Date Collected: 06/09/22 09:36 **Matrix: Solid**
Date Received: 06/10/22 13:10 **Percent Solids: 93.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.6	U	53.5	22.6	mg/Kg	☼	06/17/22 14:05	06/18/22 04:46	1
Diesel Range Organics (Over C10-C28)	**31.2**	**J**	53.5	22.6	mg/Kg	☼	06/17/22 14:05	06/18/22 04:46	1
Oil Range Organics (Over C28-C36)	22.6	U	53.5	22.6	mg/Kg	☼	06/17/22 14:05	06/18/22 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*65 - 130*	*06/17/22 14:05*	*06/18/22 04:46*	*1*
o-Terphenyl	*116*		*65 - 130*	*06/17/22 14:05*	*06/18/22 04:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.8**		10.8	3.82	mg/Kg	☼	06/17/22 12:32	06/18/22 01:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

Client Sample ID: Cell 20-treatment-S-6-220609
Date Collected: 06/09/22 10:09
Date Received: 06/10/22 13:10

Lab Sample ID: 860-27753-7
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	U	55.1	23.3	mg/Kg	☼	06/16/22 12:28	06/17/22 13:13	1
Diesel Range Organics (Over C10-C28)	23.3	U	55.1	23.3	mg/Kg	☼	06/16/22 12:28	06/17/22 13:13	1
Oil Range Organics (Over C28-C36)	23.3	U	55.1	23.3	mg/Kg	☼	06/16/22 12:28	06/17/22 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*06/16/22 12:28*	*06/17/22 13:13*	*1*
o-Terphenyl	*111*		*65 - 130*	*06/16/22 12:28*	*06/17/22 13:13*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.78**	**J**	11.1	3.92	mg/Kg	☼	06/17/22 12:32	06/18/22 01:57	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)										
860-27753-1	Cell 26-treatment-S-6-220608	107	111										
860-27753-2	Cell 25-treatment-S-6-220608	104	111										
860-27753-3	Cell 21-treatment-S-6-220608	100	101										
860-27753-4	Cell 17-treatment-S-6-220609	100	110										
860-27753-5	Cell 18-treatment-S-6-220609	109	108										
860-27753-6	Cell 19-treatment-S-6-220609	111	116										
860-27753-6 MS	Cell 19-treatment-S-6-220609	113	124										
860-27753-7	Cell 20-treatment-S-6-220609	99	111										
860-27753-7 MS	Cell 20-treatment-S-6-220609	97	101										
LCS 860-57227/2-A	Lab Control Sample	92	94										
LCS 860-57429/2-A	Lab Control Sample	109	120										
LCSD 860-57227/3-A	Lab Control Sample Dup	95	102										
LCSD 860-57429/3-A	Lab Control Sample Dup	106	113										
MB 860-57227/1-A	Method Blank	91	103										
MB 860-57429/1-A	Method Blank	103	106										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

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

Lab Sample ID: MB 860-57227/1-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/16/22 12:28	06/16/22 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*65 - 130*	*06/16/22 12:28*	*06/16/22 18:41*	*1*
o-Terphenyl	*103*		*65 - 130*	*06/16/22 12:28*	*06/16/22 18:41*	*1*

Lab Sample ID: LCS 860-57227/2-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 135
Diesel Range Organics (Over C10-C28)	997	979.5		mg/Kg		98	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*65 - 130*
o-Terphenyl	*94*		*65 - 130*

Lab Sample ID: LCSD 860-57227/3-A
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57227

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1042		mg/Kg		104	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	997	1030		mg/Kg		103	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*65 - 130*
o-Terphenyl	*102*		*65 - 130*

Lab Sample ID: 860-27753-7 MS
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Cell 20-treatment-S-6-220609
Prep Type: Total/NA
Prep Batch: 57227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	23.3	U	1100	1196		mg/Kg	☼	109	70 - 135
Diesel Range Organics (Over C10-C28)	23.3	U	1100	1148		mg/Kg	☼	105	70 - 135

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

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

Lab Sample ID: 860-27753-7 MS
Matrix: Solid
Analysis Batch: 57178

Client Sample ID: Cell 20-treatment-S-6-220609
Prep Type: Total/NA
Prep Batch: 57227

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		65 - 130
o-Terphenyl	101		65 - 130

Lab Sample ID: MB 860-57429/1-A
Matrix: Solid
Analysis Batch: 57385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		06/17/22 14:05	06/18/22 04:07	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		06/17/22 14:05	06/18/22 04:07	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		06/17/22 14:05	06/18/22 04:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		65 - 130	06/17/22 14:05	06/18/22 04:07	1
o-Terphenyl	106		65 - 130	06/17/22 14:05	06/18/22 04:07	1

Lab Sample ID: LCS 860-57429/2-A
Matrix: Solid
Analysis Batch: 57385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1159		mg/Kg		116	70 - 135
Diesel Range Organics (Over C10-C28)	997	1056		mg/Kg		106	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		65 - 130
o-Terphenyl	120		65 - 130

Lab Sample ID: LCSD 860-57429/3-A
Matrix: Solid
Analysis Batch: 57385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1139		mg/Kg		114	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	997	995.1		mg/Kg		100	70 - 135	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		65 - 130
o-Terphenyl	113		65 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

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

Lab Sample ID: 860-27753-6 MS — **Client Sample ID: Cell 19-treatment-S-6-220609**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57385 — **Prep Batch: 57429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	22.6	U	1070	1275		mg/Kg	☼	119	70 - 135
Diesel Range Organics (Over C10-C28)	31.2	J	1070	1196		mg/Kg	☼	109	70 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*113*		*65 - 130*
o-Terphenyl	*124*		*65 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-57417/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57414 — **Prep Batch: 57417**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		06/17/22 12:32	06/17/22 22:29	1

Lab Sample ID: LCS 860-57417/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57414 — **Prep Batch: 57417**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	96.72		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-57417/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57414 — **Prep Batch: 57417**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	96.44		mg/Kg		96	80 - 120	0	20

Lab Sample ID: 860-27753-5 MS — **Client Sample ID: Cell 18-treatment-S-6-220609**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57414 — **Prep Batch: 57417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.89	J	212	107.4	N1	mg/Kg	☼	49	80 - 120

Lab Sample ID: 860-27753-5 MSD — **Client Sample ID: Cell 18-treatment-S-6-220609**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57414 — **Prep Batch: 57417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.89	J	212	107.2	N1	mg/Kg	☼	49	80 - 120	0	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA

Analysis Batch: 57178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-57227/1-A	Method Blank	Total/NA	Solid	8015B NM	57227
LCS 860-57227/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57227
LCSD 860-57227/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57227
860-27753-7 MS	Cell 20-treatment-S-6-220609	Total/NA	Solid	8015B NM	57227

Analysis Batch: 57182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-2	Cell 25-treatment-S-6-220608	Total/NA	Solid	8015B NM	57227

Prep Batch: 57227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-2	Cell 25-treatment-S-6-220608	Total/NA	Solid	8015NM Prep	
860-27753-3	Cell 21-treatment-S-6-220608	Total/NA	Solid	8015NM Prep	
860-27753-4	Cell 17-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	
860-27753-7	Cell 20-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	
MB 860-57227/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-57227/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-57227/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-27753-7 MS	Cell 20-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-7	Cell 20-treatment-S-6-220609	Total/NA	Solid	8015B NM	57227

Analysis Batch: 57385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-1	Cell 26-treatment-S-6-220608	Total/NA	Solid	8015B NM	57429
860-27753-3	Cell 21-treatment-S-6-220608	Total/NA	Solid	8015B NM	57227
860-27753-5	Cell 18-treatment-S-6-220609	Total/NA	Solid	8015B NM	57429
860-27753-6	Cell 19-treatment-S-6-220609	Total/NA	Solid	8015B NM	57429
MB 860-57429/1-A	Method Blank	Total/NA	Solid	8015B NM	57429
LCS 860-57429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57429
LCSD 860-57429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57429
860-27753-6 MS	Cell 19-treatment-S-6-220609	Total/NA	Solid	8015B NM	57429

Prep Batch: 57429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-1	Cell 26-treatment-S-6-220608	Total/NA	Solid	8015NM Prep	
860-27753-5	Cell 18-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	
860-27753-6	Cell 19-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	
MB 860-57429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-57429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-57429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
860-27753-6 MS	Cell 19-treatment-S-6-220609	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-4	Cell 17-treatment-S-6-220609	Total/NA	Solid	8015B NM	57227

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

HPLC/IC

Analysis Batch: 57414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-1	Cell 26-treatment-S-6-220608	Total/NA	Solid	300.0	57417
860-27753-2	Cell 25-treatment-S-6-220608	Total/NA	Solid	300.0	57417
860-27753-3	Cell 21-treatment-S-6-220608	Total/NA	Solid	300.0	57417
860-27753-4	Cell 17-treatment-S-6-220609	Total/NA	Solid	300.0	57417
860-27753-5	Cell 18-treatment-S-6-220609	Total/NA	Solid	300.0	57417
860-27753-6	Cell 19-treatment-S-6-220609	Total/NA	Solid	300.0	57417
860-27753-7	Cell 20-treatment-S-6-220609	Total/NA	Solid	300.0	57417
MB 860-57417/1-A	Method Blank	Total/NA	Solid	300.0	57417
LCS 860-57417/2-A	Lab Control Sample	Total/NA	Solid	300.0	57417
LCSD 860-57417/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	57417
860-27753-5 MS	Cell 18-treatment-S-6-220609	Total/NA	Solid	300.0	57417
860-27753-5 MSD	Cell 18-treatment-S-6-220609	Total/NA	Solid	300.0	57417

Prep Batch: 57417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-1	Cell 26-treatment-S-6-220608	Total/NA	Solid	300_Prep	
860-27753-2	Cell 25-treatment-S-6-220608	Total/NA	Solid	300_Prep	
860-27753-3	Cell 21-treatment-S-6-220608	Total/NA	Solid	300_Prep	
860-27753-4	Cell 17-treatment-S-6-220609	Total/NA	Solid	300_Prep	
860-27753-5	Cell 18-treatment-S-6-220609	Total/NA	Solid	300_Prep	
860-27753-6	Cell 19-treatment-S-6-220609	Total/NA	Solid	300_Prep	
860-27753-7	Cell 20-treatment-S-6-220609	Total/NA	Solid	300_Prep	
MB 860-57417/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-57417/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-57417/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-27753-5 MS	Cell 18-treatment-S-6-220609	Total/NA	Solid	300_Prep	
860-27753-5 MSD	Cell 18-treatment-S-6-220609	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 56878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-27753-1	Cell 26-treatment-S-6-220608	Total/NA	Solid	Moisture	
860-27753-2	Cell 25-treatment-S-6-220608	Total/NA	Solid	Moisture	
860-27753-3	Cell 21-treatment-S-6-220608	Total/NA	Solid	Moisture	
860-27753-4	Cell 17-treatment-S-6-220609	Total/NA	Solid	Moisture	
860-27753-5	Cell 18-treatment-S-6-220609	Total/NA	Solid	Moisture	
860-27753-6	Cell 19-treatment-S-6-220609	Total/NA	Solid	Moisture	
860-27753-7	Cell 20-treatment-S-6-220609	Total/NA	Solid	Moisture	
MB 860-56878/1	Method Blank	Total/NA	Solid	Moisture	
860-27753-5 DU	Cell 18-treatment-S-6-220609	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-treatment-S-6-220608 Lab Sample ID: 860-27753-1
Date Collected: 06/08/22 10:00 **Matrix: Solid**
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 26-treatment-S-6-220608 Lab Sample ID: 860-27753-1
Date Collected: 06/08/22 10:00 **Matrix: Solid**
Date Received: 06/10/22 13:10 **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	8015NM Prep			10.03 g	10 mL	57429	06/17/22 14:05	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57385	06/18/22 05:25	SAR	XEN STF
Total/NA	Prep	300_Prep			4.99 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/17/22 23:38	ANP	XEN STF

Client Sample ID: Cell 25-treatment-S-6-220608 Lab Sample ID: 860-27753-2
Date Collected: 06/08/22 12:40 **Matrix: Solid**
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 25-treatment-S-6-220608 Lab Sample ID: 860-27753-2
Date Collected: 06/08/22 12:40 **Matrix: Solid**
Date Received: 06/10/22 13:10 **Percent Solids: 95.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57182	06/16/22 22:02	W1N	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/17/22 23:52	ANP	XEN STF

Client Sample ID: Cell 21-treatment-S-6-220608 Lab Sample ID: 860-27753-3
Date Collected: 06/08/22 13:30 **Matrix: Solid**
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 21-treatment-S-6-220608 Lab Sample ID: 860-27753-3
Date Collected: 06/08/22 13:30 **Matrix: Solid**
Date Received: 06/10/22 13:10 **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	8015NM Prep			10 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57385	06/17/22 16:15	SAR	XEN STF
Total/NA	Prep	300_Prep			5.00 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/18/22 00:33	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-treatment-S-6-220609
Lab Sample ID: 860-27753-4
Date Collected: 06/09/22 07:55
Matrix: Solid
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 17-treatment-S-6-220609
Lab Sample ID: 860-27753-4
Date Collected: 06/09/22 07:55
Matrix: Solid
Date Received: 06/10/22 13:10
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	8015NM Prep			10 g	10 mL	57227	06/16/22 12:32	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57653	06/21/22 01:32	T1S	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/18/22 00:47	ANP	XEN STF

Client Sample ID: Cell 18-treatment-S-6-220609
Lab Sample ID: 860-27753-5
Date Collected: 06/09/22 09:00
Matrix: Solid
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 18-treatment-S-6-220609
Lab Sample ID: 860-27753-5
Date Collected: 06/09/22 09:00
Matrix: Solid
Date Received: 06/10/22 13:10
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57429	06/17/22 14:05	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57385	06/18/22 04:26	SAR	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/18/22 01:01	ANP	XEN STF

Client Sample ID: Cell 19-treatment-S-6-220609
Lab Sample ID: 860-27753-6
Date Collected: 06/09/22 09:36
Matrix: Solid
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 19-treatment-S-6-220609
Lab Sample ID: 860-27753-6
Date Collected: 06/09/22 09:36
Matrix: Solid
Date Received: 06/10/22 13:10
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	8015NM Prep			10.03 g	10 mL	57429	06/17/22 14:05	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57385	06/18/22 04:46	SAR	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/18/22 01:43	ANP	XEN STF

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-27753-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-treatment-S-6-220609
Lab Sample ID: 860-27753-7
Date Collected: 06/09/22 10:09
Matrix: Solid
Date Received: 06/10/22 13:10

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			56878	06/14/22 12:44	JM	XEN STF

Client Sample ID: Cell 20-treatment-S-6-220609
Lab Sample ID: 860-27753-7
Date Collected: 06/09/22 10:09
Matrix: Solid
Date Received: 06/10/22 13:10
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	8015NM Prep			10 g	10 mL	57227	06/16/22 12:28	SYH	XEN STF
Total/NA	Analysis	8015B NM		1			57383	06/17/22 13:13	SAR	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	57417	06/17/22 12:32	ANP	XEN STF
Total/NA	Analysis	300.0		1			57414	06/18/22 01:57	ANP	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-27753-1
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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-46	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-27753-1

Method	Method Description	Protocol	Laboratory
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
Moisture	Percent Moisture	EPA	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

XEN STF = 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: 860-27753-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-27753-1	Cell 26-treatment-S-6-220608	Solid	06/08/22 10:00	06/10/22 13:10
860-27753-2	Cell 25-treatment-S-6-220608	Solid	06/08/22 12:40	06/10/22 13:10
860-27753-3	Cell 21-treatment-S-6-220608	Solid	06/08/22 13:30	06/10/22 13:10
860-27753-4	Cell 17-treatment-S-6-220609	Solid	06/09/22 07:55	06/10/22 13:10
860-27753-5	Cell 18-treatment-S-6-220609	Solid	06/09/22 09:00	06/10/22 13:10
860-27753-6	Cell 19-treatment-S-6-220609	Solid	06/09/22 09:36	06/10/22 13:10
860-27753-7	Cell 20-treatment-S-6-220609	Solid	06/09/22 10:09	06/10/22 13:10

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins 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: 860-10450-3621 1
Client Contact: Mr Steve Rice	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 10f 1
Company: ARCADIS U S. Inc.	PWSID:			Job #:

Address: 1004 North Big Spring Suite 300	Due Date Requested:
City: Midland	TAT Requested (days):
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No
Phone: 303-316-6506(Tel)	PO #:
Email: steve.rice@arcadis.com	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, 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)	8015MOD_NM (MOD) DRO and GRO	300_ORGFM_28D Chloride	[illegible]	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	N	N		
Cell 26-treatment-S-6-220608	06/08/22	1000	C	Solid		X	X		X		
Cell 25-treatment-S-6-220608	06/08/22	1240	C	Solid		X	X		X		
Cell 24-treatment-S-6-220608	06/08/22	1330	C	Solid		X	X		X		
Cell 17-treatment-S-6-220609	06/09/22	755	C	Solid		X	X		X		
Cell 18-treatment-S-6-220609	06/09/22	900	C	Solid		X	X		X		
Cell 19-treatment-S-6-220609	06/09/22	936	C	Solid		X	X		X		
Cell 20-treatment-S-6-220609	06/09/22	1009	C	Solid		X	X		X		
				Solid							
				Solid							
				Solid							
				Solid							

860-27753 Chain of Custody

Temp: 34 IR ID:HOU-323
C/F -0.0
Corrected Temp: 34

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: Sarah Nolen	Date/Time: 06/09/22 1500	Company: ARCADIS	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: YCRS	Date/Time: 6/10/22 1023	Company E
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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27753-1

Login Number: 27753 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-27753-1

Login Number: 27753 **List Source: Eurofins Houston**
List Number: 2
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	Check done at department level as required.

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-30328-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
8/25/2022 3:38:39 PM

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-30328-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

GC/MS Semi 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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA TICs

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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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
b	The compound was found in the blank and sample
H	Sample was prepped or analyzed beyond the specified holding time
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.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-30328-1

Comments
No additional comments.

Receipt
The samples were received on 7/27/2022 10:28 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 1.7º C, 2.5º C and 3.2º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) associated with batch 860-62746 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria of 20% for Chloromethane (22.8%), Dichloro fluoromethane (47.5%), Trichlorofluoromethane (43.1%), and Vinyl chloride (40.2%).

Method 8260C: The laboratory control sample (LCS) for analytical batch 860-62746 recovered outside control limits for the following analytes: Dichloro fluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-30282-A-2-B) and (860-30282-A-2-B MS). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-62604 and analytical batch 860-62746 were outside control limits. Sample matrix interference is suspected. MS had high concentration of target compounds.

Method 8260D SIM: The matrix spike (MS) recoveries for preparation batch 860-63945 and analytical batch 860-63953 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 was a bulk jar.

Cell20-Square-60-S-3-4-220726 (860-30328-1), Cell20-Square-38-S-3-4-220726 (860-30328-2), Cell20-Square-58-S-3-4-220726 (860-30328-3), Cell20-Square-80-S-3-4-220726 (860-30328-4), Cell21-Square-20-S-3-4-220726 (860-30328-5), Cell21-Square-40-S-3-4-220726 (860-30328-6) and (860-30328-P-1-A MS)

Method 8260D SIM: Surrogate recovery for the following sample was outside control limits: (860-30328-P-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC/MS Semi VOA
Method 8270D: Physical properties (viscosity, color, odor) of the following sample extract preclude concentrated analysis which would jeopardize instrumentation: Cell20-Square-58-S-3-4-220726 (860-30328-3) Minimal dilution with elevated RLs is reported.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: Cell21-Square-20-S-3-4-220726 (860-30328-5) and Cell21-Square-40-S-3-4-220726 (860-30328-6). These results have been reported and qualified.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 860-62782 and analytical batch 860-62968 recovered outside control limits for the following analyte: 2,4-Dinitrotoluene. The laboratory control sample (LCS) recovered within control

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1 (Continued)

Laboratory: Eurofins Houston (Continued)

limits for this analyte. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

(LCSD 860-62782/3-A)

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-62782 and analytical batch 860-63292 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The following samples were diluted due to appearance: Cell20-Square-60-S-3-4-220726 (860-30328-1), Cell20-Square-38-S-3-4-220726 (860-30328-2) and Cell20-Square-80-S-3-4-220726 (860-30328-4). Elevated reporting limits (RL) are provided.

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

GC Semi VOA
Method 8082A: The following sample was diluted due to the nature of the sample matrix: Cell20-Square-58-S-3-4-220726 (860-30328-3). Elevated reporting limits (RLs) are provided.

Method 8081B: The following sample was diluted due to the nature of the sample matrix: Cell20-Square-58-S-3-4-220726 (860-30328-3). 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.

RAD
Method GA-01-R: Gamma Prep Batch 160-576043

Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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.

Released to Imaging: 1/29/2025 3:31:29 PM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1 (Continued)

Laboratory: Eurofins Houston (Continued)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Cell20-Square-60-S-3-4-220726 (860-30328-1), Cell20-Square-38-S-3-4-220726 (860-30328-2), Cell20-Square-58-S-3-4-220726 (860-30328-3), Cell20-Square-80-S-3-4-220726 (860-30328-4), Cell21-Square-20-S-3-4-220726 (860-30328-5), Cell21-Square-40-S-3-4-220726 (860-30328-6) and (860-30328-C-6-C 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 860-66279 and analytical batch 860-66478 were outside control limits. Sample matrix interference and/or non-homogeneity are 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
Method DV-LC-0012: The Isotope Dilution Analyte (IDA) recovery associated with the following samples in PFC preparation batch 280-582854 and analytical batch 280-584624 is below the method recommended limit: Cell20-Square-60-S-3-4-220726 (860-30328-1), Cell20-Square-38-S-3-4-220726 (860-30328-2), Cell20-Square-58-S-3-4-220726 (860-30328-3), Cell20-Square-80-S-3-4-220726 (860-30328-4), Cell21-Square-40-S-3-4-220726 (860-30328-6) and (MB 280-582854/1-A). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

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

General Chemistry
Method 9056A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries 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: Cell20-Square-60-S-3-4-220726 (860-30328-1), Cell20-Square-38-S-3-4-220726 (860-30328-2), Cell20-Square-58-S-3-4-220726 (860-30328-3), Cell20-Square-80-S-3-4-220726 (860-30328-4), Cell21-Square-20-S-3-4-220726 (860-30328-5), Cell21-Square-40-S-3-4-220726 (860-30328-6), (860-30328-F-6 DU), (860-30328-F-6 MS), (860-30328-F-6 MSD) and (860-30328-F-6 TRL) in preparation batch 280-582554 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.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-60-S-3-4-220726 Lab Sample ID: 860-30328-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14.8		9.90	3.50	mg/Kg	1		9056A	Total/NA
Nitrate as N	10.7		0.990	0.107	mg/Kg	1		9056A	Total/NA
Fluoride	2.47	J	4.95	0.990	mg/Kg	1		9056A	Total/NA
Nitrate Nitrite as N	10.7		0.990	0.107	mg/Kg	1		9056A	Total/NA
Sulfate	180		9.90	4.28	mg/Kg	1		9056A	Total/NA
Arsenic	2.16		0.345	0.0532	mg/Kg	1		6020A	Total/NA
Barium	278		3.45	0.299	mg/Kg	10		6020A	Total/NA
Beryllium	0.118	J	0.172	0.0160	mg/Kg	1		6020A	Total/NA
Cadmium	0.0461	J	0.172	0.0100	mg/Kg	1		6020A	Total/NA
Chromium	2.40		0.345	0.0234	mg/Kg	1		6020A	Total/NA
Copper	1.31		0.345	0.0225	mg/Kg	1		6020A	Total/NA
Iron	1760		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	18.0		0.172	0.0219	mg/Kg	1		6020A	Total/NA
Lead	1.17		0.172	0.0167	mg/Kg	1		6020A	Total/NA
Antimony	0.418		0.172	0.0103	mg/Kg	1		6020A	Total/NA
Selenium	0.0961	J	0.172	0.0428	mg/Kg	1		6020A	Total/NA
Thallium	0.0417	J	0.172	0.0206	mg/Kg	1		6020A	Total/NA
Uranium	0.351		0.0862	0.00515	mg/Kg	1		6020A	Total/NA
Zinc	5.84		0.345	0.0382	mg/Kg	1		6020A	Total/NA
Cyanide, Total	37.5	J	60.5	30.0	ug/Kg	1		9012A	Total/NA
pH	8.9	HF			SU	1		9045D	Soluble
Total Dissolved Solids	115	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square-38-S-3-4-220726 Lab Sample ID: 860-30328-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	7.21		4.97	0.994	mg/Kg	1		9056A	Total/NA
Sulfate	175		9.94	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.133	J	0.494	0.0813	ug/Kg	1		6860	Total/NA
Arsenic	3.18		0.333	0.0514	mg/Kg	1		6020A	Total/NA
Barium	243		3.33	0.289	mg/Kg	10		6020A	Total/NA
Beryllium	0.120	J	0.167	0.0154	mg/Kg	1		6020A	Total/NA
Cadmium	0.0639	J	0.167	0.00967	mg/Kg	1		6020A	Total/NA
Chromium	2.09		0.333	0.0226	mg/Kg	1		6020A	Total/NA
Copper	1.45		0.333	0.0217	mg/Kg	1		6020A	Total/NA
Iron	1890		16.7	1.95	mg/Kg	10		6020A	Total/NA
Manganese	23.1		0.167	0.0212	mg/Kg	1		6020A	Total/NA
Lead	1.19		0.167	0.0161	mg/Kg	1		6020A	Total/NA
Antimony	0.194		0.167	0.00992	mg/Kg	1		6020A	Total/NA
Selenium	0.116	J	0.167	0.0413	mg/Kg	1		6020A	Total/NA
Thallium	0.0446	J	0.167	0.0199	mg/Kg	1		6020A	Total/NA
Uranium	0.450		0.0833	0.00498	mg/Kg	1		6020A	Total/NA
Zinc	6.72		0.333	0.0369	mg/Kg	1		6020A	Total/NA
Mercury	0.0116	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA
Cyanide, Total	45.3	J	60.2	29.9	ug/Kg	1		9012A	Total/NA
pH	8.7	HF			SU	1		9045D	Soluble
Total Dissolved Solids	160	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square-58-S-3-4-220726 Lab Sample ID: 860-30328-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	4.43	J	4.96	0.992	mg/Kg	1		9056A	Total/NA

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: 860-30328-1

Client Sample ID: Cell20-Square-58-S-3-4-220726 (Continued) Lab Sample ID: 860-30328-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	143		9.92	4.29	mg/Kg	1		9056A	Total/NA
Perchlorate	0.108	J	0.475	0.0783	ug/Kg	1		6860	Total/NA
Arsenic	2.12		0.351	0.0541	mg/Kg	1		6020A	Total/NA
Barium	187		3.51	0.304	mg/Kg	10		6020A	Total/NA
Beryllium	0.210		0.175	0.0162	mg/Kg	1		6020A	Total/NA
Cadmium	0.0562	J	0.175	0.0102	mg/Kg	1		6020A	Total/NA
Chromium	4.22		0.351	0.0238	mg/Kg	1		6020A	Total/NA
Copper	1.90		0.351	0.0229	mg/Kg	1		6020A	Total/NA
Iron	3950		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	38.2		0.175	0.0223	mg/Kg	1		6020A	Total/NA
Lead	2.49		0.175	0.0170	mg/Kg	1		6020A	Total/NA
Antimony	0.139	J	0.175	0.0104	mg/Kg	1		6020A	Total/NA
Selenium	0.119	J	0.175	0.0435	mg/Kg	1		6020A	Total/NA
Thallium	0.0611	J	0.175	0.0210	mg/Kg	1		6020A	Total/NA
Uranium	0.308		0.0877	0.00524	mg/Kg	1		6020A	Total/NA
Zinc	9.71		0.351	0.0388	mg/Kg	1		6020A	Total/NA
Mercury	0.00915	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA
Cyanide, Total	113		60.2	29.9	ug/Kg	1		9012A	Total/NA
pH	8.6	HF			SU	1		9045D	Soluble
Total Dissolved Solids	157	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell20-Square-80-S-3-4-220726 Lab Sample ID: 860-30328-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.9		9.96	3.53	mg/Kg	1		9056A	Total/NA
Fluoride	7.67		4.98	0.996	mg/Kg	1		9056A	Total/NA
Sulfate	224		9.96	4.30	mg/Kg	1		9056A	Total/NA
Perchlorate	0.146	J	0.461	0.0759	ug/Kg	1		6860	Total/NA
Arsenic	3.68		0.345	0.0532	mg/Kg	1		6020A	Total/NA
Barium	328		3.45	0.299	mg/Kg	10		6020A	Total/NA
Beryllium	0.146	J	0.172	0.0160	mg/Kg	1		6020A	Total/NA
Cadmium	0.0530	J	0.172	0.0100	mg/Kg	1		6020A	Total/NA
Chromium	2.48		0.345	0.0234	mg/Kg	1		6020A	Total/NA
Copper	1.42		0.345	0.0225	mg/Kg	1		6020A	Total/NA
Iron	2140		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	22.3		0.172	0.0219	mg/Kg	1		6020A	Total/NA
Lead	1.34		0.172	0.0167	mg/Kg	1		6020A	Total/NA
Antimony	0.124	J	0.172	0.0103	mg/Kg	1		6020A	Total/NA
Selenium	0.135	J	0.172	0.0428	mg/Kg	1		6020A	Total/NA
Thallium	0.0502	J	0.172	0.0206	mg/Kg	1		6020A	Total/NA
Uranium	0.516		0.0862	0.00515	mg/Kg	1		6020A	Total/NA
Zinc	18.2		0.345	0.0382	mg/Kg	1		6020A	Total/NA
Cyanide, Total	35.3	J	60.1	29.8	ug/Kg	1		9012A	Total/NA
pH	9.2	HF			SU	1		9045D	Soluble
Total Dissolved Solids	138	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square-20-S-3-4-220726 Lab Sample ID: 860-30328-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.15	J	9.94	3.52	mg/Kg	1		9056A	Total/NA
Fluoride	5.85		4.97	0.994	mg/Kg	1		9056A	Total/NA
Sulfate	345		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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726 (Continued) Lab Sample ID: 860-30328-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perchlorate	0.196	J	0.497	0.0819	ug/Kg	1		6860	Total/NA
Arsenic	3.37		0.357	0.0551	mg/Kg	1		6020A	Total/NA
Barium	418		3.57	0.310	mg/Kg	10		6020A	Total/NA
Beryllium	0.0805	J	0.179	0.0165	mg/Kg	1		6020A	Total/NA
Cadmium	0.0391	J	0.179	0.0104	mg/Kg	1		6020A	Total/NA
Chromium	1.46		0.357	0.0242	mg/Kg	1		6020A	Total/NA
Copper	1.22		0.357	0.0233	mg/Kg	1		6020A	Total/NA
Iron	1390		17.9	2.09	mg/Kg	10		6020A	Total/NA
Manganese	13.0		0.179	0.0227	mg/Kg	1		6020A	Total/NA
Lead	1.00		0.179	0.0173	mg/Kg	1		6020A	Total/NA
Antimony	0.0889	J	0.179	0.0106	mg/Kg	1		6020A	Total/NA
Selenium	0.0746	J	0.179	0.0443	mg/Kg	1		6020A	Total/NA
Thallium	0.0296	J	0.179	0.0213	mg/Kg	1		6020A	Total/NA
Uranium	0.452		0.0893	0.00534	mg/Kg	1		6020A	Total/NA
Zinc	8.65		0.357	0.0395	mg/Kg	1		6020A	Total/NA
Cyanide, Total	79.1		59.9	29.7	ug/Kg	1		9012A	Total/NA
pH	9.1	HF			SU	1		9045D	Soluble
Total Dissolved Solids	220	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square-40-S-3-4-220726 Lab Sample ID: 860-30328-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	7.05		4.99	0.998	mg/Kg	1		9056A	Total/NA
Sulfate	207		9.98	4.31	mg/Kg	1		9056A	Total/NA
Perchlorate	0.131	J	0.479	0.0789	ug/Kg	1		6860	Total/NA
Arsenic	2.52		0.339	0.0523	mg/Kg	1		6020A	Total/NA
Barium	336		3.39	0.294	mg/Kg	10		6020A	Total/NA
Beryllium	0.106	J	0.169	0.0157	mg/Kg	1		6020A	Total/NA
Cadmium	0.0425	J	0.169	0.00983	mg/Kg	1		6020A	Total/NA
Chromium	1.88		0.339	0.0230	mg/Kg	1		6020A	Total/NA
Copper	1.26		0.339	0.0221	mg/Kg	1		6020A	Total/NA
Iron	1760		16.9	1.99	mg/Kg	10		6020A	Total/NA
Manganese	14.3		0.169	0.0216	mg/Kg	1		6020A	Total/NA
Lead	1.15		0.169	0.0164	mg/Kg	1		6020A	Total/NA
Antimony	0.0986	J	0.169	0.0101	mg/Kg	1		6020A	Total/NA
Selenium	0.0894	J	0.169	0.0421	mg/Kg	1		6020A	Total/NA
Thallium	0.0342	J	0.169	0.0203	mg/Kg	1		6020A	Total/NA
Uranium	0.382		0.0847	0.00507	mg/Kg	1		6020A	Total/NA
Zinc	6.13		0.339	0.0375	mg/Kg	1		6020A	Total/NA
Cyanide, Total	73.4		60.1	29.8	ug/Kg	1		9012A	Total/NA
pH	9.0	HF			SU	1		9045D	Soluble
Total Dissolved Solids	125	H 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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-60-S-3-4-220726

Date Collected: 07/26/22 02:31
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.4	U	50.5	39.4	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Acrylonitrile	9.16	U	20.2	9.16	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Benzene	0.740	U	1.01	0.740	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Bromodichloromethane	1.80	U	5.05	1.80	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Tribromomethane	2.23	U	5.05	2.23	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Bromomethane	2.45	U	5.05	2.45	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Methyl tert-butyl ether	2.00	U	5.05	2.00	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Carbon tetrachloride	1.83	U	5.05	1.83	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Monochlorobenzene	1.49	U	5.05	1.49	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Chloroform	1.72	U	5.05	1.72	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Chloromethane	2.88	U	5.05	2.88	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,2-Dibromoethane	1.65	U	5.05	1.65	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,2-Dichlorobenzene	1.47	U	5.05	1.47	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,3-Dichlorobenzene	1.47	U	5.05	1.47	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,4-Dichlorobenzene	1.45	U	5.05	1.45	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Dichlorodifluoromethane	3.03	U	5.05	3.03	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1-Dichloroethane	1.65	U	5.05	1.65	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,2-Dichloroethane	1.93	U	5.05	1.93	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1-Dichloroethene	1.79	U	5.05	1.79	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
cis-1,2-Dichloroethene	1.51	U	5.05	1.51	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
trans-1,2-Dichloroethene	1.60	U	5.05	1.60	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,2-Dichloropropane	1.71	U	5.05	1.71	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
cis-1,3-Dichloropropene	1.65	U	5.05	1.65	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
trans-1,3-Dichloropropene	1.68	U	5.05	1.68	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1-Dichloropropene	1.76	U	5.05	1.76	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,4-Dioxane	24.3	U	50.5	24.3	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Ethylbenzene	0.672	U	1.01	0.672	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Methylene Chloride	12.6	U	20.2	12.6	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Styrene	1.51	U	5.05	1.51	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1,2,2-Tetrachloroethane	0.166	U	5.05	0.166	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Tetrachloroethene	1.64	U	5.05	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Toluene	1.93	U	5.05	1.93	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,2,4-Trichlorobenzene	2.02	U	5.05	2.02	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1,1-Trichloroethane	1.69	U	5.05	1.69	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,1,2-Trichloroethane	1.64	U	5.05	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Trichloroethene	1.92	U	5.05	1.92	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Trichlorofluoromethane	1.80	U	5.05	1.80	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Vinyl chloride	1.86	U *	5.05	1.86	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
Xylenes, Total	0.909	U	2.02	0.909	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
1,3-Dichloropropene, Total	1.68	U	5.05	1.68	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
o-Xylene	0.909	U	1.01	0.909	ug/Kg		07/28/22 15:29	07/28/22 19:10	1
m,p-Xylenes	0.808	U	2.02	0.808	ug/Kg		07/28/22 15:29	07/28/22 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*07/28/22 15:29*	*07/28/22 19:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/28/22 15:29*	*07/28/22 19:10*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*07/28/22 15:29*	*07/28/22 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*56 - 150*	*07/28/22 15:29*	*07/28/22 19:10*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-60-S-3-4-220726

Lab Sample ID: 860-30328-1
Date Collected: 07/26/22 02:31
Matrix: Solid
Date Received: 07/27/22 10:28

Method: 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		08/08/22 16:30	08/08/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*	*08/08/22 16:30*	*08/08/22 18:54*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.9	U	65.6	11.9	ug/Kg		08/02/22 12:32	08/04/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*102*		*30 - 164*	*08/02/22 12:32*	*08/04/22 18:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	34.3	U	329	34.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
1,2,4,5-Tetrachlorobenzene	32.5	U	329	32.5	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
1-Methylnaphthalene	52.6	U	329	52.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
bis (2-chloroisopropyl) ether	35.1	U	329	35.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2,4,5-Trichlorophenol	37.6	U	329	37.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2,4,6-Trichlorophenol	31.1	U	329	31.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2,4-Dinitrotoluene	25.1	U *	329	25.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Dinitrophenols	47.7	U	657	47.7	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2,4-Dichlorophenol	34.4	U	329	34.4	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2,6-Dinitrotoluene	45.9	U	329	45.9	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Dichlorobenzidine, 3,3'-	30.4	U	657	30.4	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
4,6-Dinitro-2-methylphenol	25.1	U	657	25.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Acenaphthene	30.6	U	329	30.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Anthracene	27.2	U	329	27.2	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Acenaphthylene	29.1	U	329	29.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzo[a]anthracene	27.7	U *	329	27.7	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzo[b]fluoranthene	24.8	U *	329	24.8	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzo[k]fluoranthene	38.2	U	329	38.2	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzo[g,h,i]perylene	30.3	U	329	30.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzo[a]pyrene	34.0	U	329	34.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Di (2-ethylhexyl)phthalate	329	U *	657	329	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Bis(2-chloroethyl)ether	30.0	U	329	30.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Chrysene	32.6	U	329	32.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Dibutylphthalate	31.6	U	329	31.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Dibenz(a,h)anthracene	25.0	U	329	25.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Diethyl phthalate	30.2	U	329	30.2	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Dimethyl phthalate	31.3	U	329	31.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Fluoranthene	29.0	U	329	29.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Fluorene	27.3	U	329	27.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Hexachlorobenzene	32.0	U	329	32.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Hexachlorobutadiene	27.3	U	329	27.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Hexachlorocyclopentadiene	30.0	U	329	30.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Hexachloroethane	34.1	U	329	34.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Indeno[1,2,3-cd]pyrene	26.5	U	329	26.5	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Isophorone	28.6	U	329	28.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
N-Nitrosodi-n-butylamine	49.8	U	329	49.8	ug/Kg		07/28/22 12:34	08/02/22 21:00	2

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-60-S-3-4-220726 **Lab Sample ID: 860-30328-1**
Date Collected: 07/26/22 02:31 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	43.2	U	329	43.2	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
N-Nitrosodiphenylamine	36.7	U	329	36.7	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
N-Nitrosopyrrolidine	27.8	U	329	27.8	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Pentachlorobenzene	31.3	U	329	31.3	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Pentachlorophenol	23.9	U	657	23.9	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Phenanthrene	32.7	U	329	32.7	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Pyrene	28.8	U	329	28.8	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Naphthalene	30.8	U	329	30.8	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
2-Methylnaphthalene	89.1	U	329	89.1	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Nitrobenzene	36.5	U	329	36.5	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Benzidine	23.9	U	657	23.9	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Phenol	0.0295	U	0.657	0.0295	mg/Kg		07/28/22 12:34	08/02/22 21:00	2
N-Nitrosodimethylamine	33.0	U	329	33.0	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Atrazine	32.6	U	657	32.6	ug/Kg		07/28/22 12:34	08/02/22 21:00	2
Thiophene, tetrahydro-, 1,1-dioxide	657	U	657	657	ug/Kg		07/28/22 12:34	08/02/22 21:00	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*1.31*	*U*	*mg/Kg*			*542-88-1*	*07/28/22 12:34*	*08/02/22 21:00*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*30 - 115*	*07/28/22 12:34*	*08/02/22 21:00*	*2*
2-Fluorophenol	*48*		*25 - 121*	*07/28/22 12:34*	*08/02/22 21:00*	*2*
2,4,6-Tribromophenol	*40*		*19 - 122*	*07/28/22 12:34*	*08/02/22 21:00*	*2*
Nitrobenzene-d5	*41*		*23 - 129*	*07/28/22 12:34*	*08/02/22 21:00*	*2*
Phenol-d5 (Surr)	*45*		*24 - 113*	*07/28/22 12:34*	*08/02/22 21:00*	*2*
p-Terphenyl-d14 (Surr)	*66*		*18 - 137*	*07/28/22 12:34*	*08/02/22 21:00*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.6	21.4	mg/Kg		08/08/22 17:02	08/08/22 19:42	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.6	21.4	mg/Kg		08/08/22 17:02	08/08/22 19:42	1
Oil Range Organics (Over C28-C36)	21.4	U	50.6	21.4	mg/Kg		08/08/22 17:02	08/08/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:42*	*1*
o-Terphenyl (Surr)	*121*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.248	U	0.814	0.248	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Aldrin	0.354	U	0.814	0.354	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Hexachlorocyclohexane, alpha-	0.664	U	0.814	0.664	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Hexachlorocyclohexane, beta-	0.463	U	0.814	0.463	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Chlordane (technical)	23.3	U	40.7	23.3	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Hexachlorocyclohexane, delta-	0.814	U	0.814	0.814	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Dieldrin	0.165	U	0.814	0.165	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Endosulfan I	0.197	U	0.814	0.197	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Endosulfan II	0.364	U	0.814	0.364	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Endosulfan sulfate	0.269	U	0.814	0.269	ug/Kg		07/28/22 14:27	08/01/22 17:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-60-S-3-4-220726

Date Collected: 07/26/22 02:31
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.284	U	0.814	0.284	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Endrin aldehyde	0.242	U	0.814	0.242	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Hexachlorocyclohexane, gamma-	0.428	U	0.814	0.428	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Heptachlor	0.549	U	0.814	0.549	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Heptachlor epoxide	0.239	U	0.814	0.239	ug/Kg		07/28/22 14:27	08/01/22 17:47	1
Toxaphene	11.1	U	16.3	11.1	ug/Kg		07/28/22 14:27	08/01/22 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*35 - 135*	*07/28/22 14:27*	*08/01/22 17:47*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*07/28/22 14:27*	*08/01/22 17:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00386	U	0.0163	0.00386	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1221	0.00386	U	0.0163	0.00386	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1232	0.00386	U	0.0163	0.00386	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1242	0.00386	U	0.0163	0.00386	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1248	0.00386	U	0.0163	0.00386	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1254	0.00254	U	0.0163	0.00254	mg/Kg		07/28/22 14:27	08/01/22 12:42	1
Aroclor 1260	0.00254	U	0.0163	0.00254	mg/Kg		07/28/22 14:27	08/01/22 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*35 - 140*	*07/28/22 14:27*	*08/01/22 12:42*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*37 - 142*	*07/28/22 14:27*	*08/01/22 12:42*	*1*

Method: 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	0.0922	0.0209	mg/Kg		08/02/22 17:50	08/03/22 18:21	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0396	U	0.184	0.0396	mg/Kg		08/02/22 17:50	08/03/22 18:21	1
2,4,6-Trinitrotoluene	0.0283	U	0.0922	0.0283	mg/Kg		08/02/22 17:50	08/03/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*08/02/22 17:50*	*08/03/22 18:21*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		9.90	3.50	mg/Kg		08/22/22 14:59	08/23/22 02:40	1
Nitrate as N	**10.7**		0.990	0.107	mg/Kg		08/22/22 14:59	08/23/22 02:40	1
Fluoride	**2.47**	**J**	4.95	0.990	mg/Kg		08/22/22 14:59	08/23/22 02:40	1
Nitrite as N	0.0495	U	0.990	0.0495	mg/Kg		08/22/22 14:59	08/23/22 02:40	1
Nitrate Nitrite as N	**10.7**		0.990	0.107	mg/Kg		08/22/22 14:59	08/23/22 02:40	1
Sulfate	**180**		9.90	4.28	mg/Kg		08/22/22 14:59	08/23/22 02:40	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0805	U	0.488	0.0805	ug/Kg		08/02/22 14:51	08/03/22 12:29	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.217	U	0.753	0.217	ug/Kg		08/03/22 13:27	08/20/22 09:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.264	U	0.753	0.264	ug/Kg		08/03/22 13:27	08/20/22 09:11	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-60-S-3-4-220726 Lab Sample ID: 860-30328-1

Date Collected: 07/26/22 02:31 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.132	U	0.753	0.132	ug/Kg		08/03/22 13:27	08/20/22 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/03/22 13:27*	*08/20/22 09:11*	*1*
13C8 PFOS	*103*		*70 - 130*	*08/03/22 13:27*	*08/20/22 09:11*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0137	U	0.172	0.0137	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Arsenic	**2.16**		0.345	0.0532	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Barium	**278**		3.45	0.299	mg/Kg		08/23/22 19:04	08/24/22 18:06	10
Beryllium	**0.118**	**J**	0.172	0.0160	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Cadmium	**0.0461**	**J**	0.172	0.0100	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Chromium	**2.40**		0.345	0.0234	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Copper	**1.31**		0.345	0.0225	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Iron	**1760**		17.2	2.02	mg/Kg		08/23/22 19:04	08/24/22 18:06	10
Manganese	**18.0**		0.172	0.0219	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Lead	**1.17**		0.172	0.0167	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Antimony	**0.418**		0.172	0.0103	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Selenium	**0.0961**	**J**	0.172	0.0428	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Thallium	**0.0417**	**J**	0.172	0.0206	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Uranium	**0.351**		0.0862	0.00515	mg/Kg		08/23/22 19:04	08/24/22 18:09	1
Zinc	**5.84**		0.345	0.0382	mg/Kg		08/23/22 19:04	08/24/22 18:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00861	U	0.0192	0.00861	mg/Kg		08/19/22 08:59	08/19/22 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**37.5**	**J**	60.5	30.0	ug/Kg		08/09/22 13:09	08/09/22 16:36	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:55	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.9**	**HF**			SU			08/08/22 17:56	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**115**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**0.816**		0.128	0.154	1.00	0.0521	pCi/g	08/01/22 12:40	08/24/22 13:47	1
Radium-228	0.0900	U	0.143	0.143		0.273	pCi/g	08/01/22 12:40	08/24/22 13:47	1
Combined Radium 226 + 228	**0.906**		0.192	0.210		0.273	pCi/g	08/01/22 12:40	08/24/22 13:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-38-S-3-4-220726

Date Collected: 07/26/22 10:05
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.1	U	50.1	39.1	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Acrylonitrile	9.09	U	20.0	9.09	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Benzene	0.734	U	1.00	0.734	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Bromodichloromethane	1.79	U	5.01	1.79	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Tribromomethane	2.22	U	5.01	2.22	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Bromomethane	2.43	U	5.01	2.43	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Methyl tert-butyl ether	1.98	U	5.01	1.98	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Carbon tetrachloride	1.82	U	5.01	1.82	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Monochlorobenzene	1.47	U	5.01	1.47	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Chloroform	1.70	U	5.01	1.70	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Chloromethane	2.86	U	5.01	2.86	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,2-Dibromoethane	1.63	U	5.01	1.63	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,2-Dichlorobenzene	1.46	U	5.01	1.46	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,3-Dichlorobenzene	1.46	U	5.01	1.46	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,4-Dichlorobenzene	1.44	U	5.01	1.44	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Dichlorodifluoromethane	3.00	U	5.01	3.00	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1-Dichloroethane	1.64	U	5.01	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,2-Dichloroethane	1.92	U	5.01	1.92	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1-Dichloroethene	1.78	U	5.01	1.78	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
cis-1,2-Dichloroethene	1.49	U	5.01	1.49	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
trans-1,2-Dichloroethene	1.59	U	5.01	1.59	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,2-Dichloropropane	1.70	U	5.01	1.70	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
cis-1,3-Dichloropropene	1.64	U	5.01	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
trans-1,3-Dichloropropene	1.67	U	5.01	1.67	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1-Dichloropropene	1.75	U	5.01	1.75	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,4-Dioxane	24.1	U	50.1	24.1	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Ethylbenzene	0.666	U	1.00	0.666	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Methylene Chloride	12.5	U	20.0	12.5	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Styrene	1.49	U	5.01	1.49	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1,2,2-Tetrachloroethane	0.165	U	5.01	0.165	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Tetrachloroethene	1.63	U	5.01	1.63	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Toluene	1.92	U	5.01	1.92	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,2,4-Trichlorobenzene	2.00	U	5.01	2.00	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1,1-Trichloroethane	1.68	U	5.01	1.68	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,1,2-Trichloroethane	1.63	U	5.01	1.63	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Trichloroethene	1.91	U	5.01	1.91	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Trichlorofluoromethane	1.79	U	5.01	1.79	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Vinyl chloride	1.85	U *	5.01	1.85	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
Xylenes, Total	0.902	U	2.00	0.902	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
1,3-Dichloropropene, Total	1.67	U	5.01	1.67	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
o-Xylene	0.902	U	1.00	0.902	ug/Kg		07/28/22 15:29	07/28/22 19:34	1
m,p-Xylenes	0.802	U	2.00	0.802	ug/Kg		07/28/22 15:29	07/28/22 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*07/28/22 15:29*	*07/28/22 19:34*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/28/22 15:29*	*07/28/22 19:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*07/28/22 15:29*	*07/28/22 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*56 - 150*	*07/28/22 15:29*	*07/28/22 19:34*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-38-S-3-4-220726

Date Collected: 07/26/22 10:05
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-2

Matrix: Solid

Method: 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		08/08/22 16:30	08/08/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 144*	*08/08/22 16:30*	*08/08/22 19:12*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.6	11.7	ug/Kg		08/02/22 12:32	08/04/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*30 - 164*	*08/02/22 12:32*	*08/04/22 19:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	34.5	U	331	34.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
1,2,4,5-Tetrachlorobenzene	32.7	U	331	32.7	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
1-Methylnaphthalene	53.1	U	331	53.1	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
bis (2-chloroisopropyl) ether	35.4	U	331	35.4	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2,4,5-Trichlorophenol	37.9	U	331	37.9	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2,4,6-Trichlorophenol	31.3	U	331	31.3	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2,4-Dinitrotoluene	25.3	U *	331	25.3	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Dinitrophenols	48.1	U	663	48.1	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2,4-Dichlorophenol	34.7	U	331	34.7	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2,6-Dinitrotoluene	46.3	U	331	46.3	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Dichlorobenzidine, 3,3'-	30.6	U	663	30.6	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
4,6-Dinitro-2-methylphenol	25.3	U	663	25.3	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Acenaphthene	30.8	U	331	30.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Anthracene	27.5	U	331	27.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Acenaphthylene	29.4	U	331	29.4	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzo[a]anthracene	28.0	U *	331	28.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzo[b]fluoranthene	25.0	U *	331	25.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzo[k]fluoranthene	38.5	U	331	38.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzo[g,h,i]perylene	30.5	U	331	30.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzo[a]pyrene	34.2	U	331	34.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Di (2-ethylhexyl)phthalate	331	U *	663	331	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Bis(2-chloroethyl)ether	30.2	U	331	30.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Chrysene	32.8	U	331	32.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Dibutylphthalate	31.9	U	331	31.9	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Dibenz(a,h)anthracene	25.2	U	331	25.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Diethyl phthalate	30.4	U	331	30.4	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Dimethyl phthalate	31.6	U	331	31.6	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Fluoranthene	29.2	U	331	29.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Fluorene	27.5	U	331	27.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Hexachlorobenzene	32.2	U	331	32.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Hexachlorobutadiene	27.5	U	331	27.5	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Hexachlorocyclopentadiene	30.2	U	331	30.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Hexachloroethane	34.4	U	331	34.4	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Indeno[1,2,3-cd]pyrene	26.7	U	331	26.7	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Isophorone	28.8	U	331	28.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
N-Nitrosodi-n-butylamine	50.2	U	331	50.2	ug/Kg		07/28/22 12:34	08/02/22 21:23	2

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-38-S-3-4-220726 **Lab Sample ID: 860-30328-2**
Date Collected: 07/26/22 10:05 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	43.6	U	331	43.6	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
N-Nitrosodiphenylamine	37.0	U	331	37.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
N-Nitrosopyrrolidine	28.0	U	331	28.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Pentachlorobenzene	31.6	U	331	31.6	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Pentachlorophenol	24.1	U	663	24.1	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Phenanthrene	33.0	U	331	33.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Pyrene	29.0	U	331	29.0	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Naphthalene	31.1	U	331	31.1	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
2-Methylnaphthalene	89.8	U	331	89.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Nitrobenzene	36.8	U	331	36.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Benzidine	24.1	U	663	24.1	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Phenol	0.0297	U	0.663	0.0297	mg/Kg		07/28/22 12:34	08/02/22 21:23	2
N-Nitrosodimethylamine	33.3	U	331	33.3	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Atrazine	32.8	U	663	32.8	ug/Kg		07/28/22 12:34	08/02/22 21:23	2
Thiophene, tetrahydro-, 1,1-dioxide	662	U	663	662	ug/Kg		07/28/22 12:34	08/02/22 21:23	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*1.33*	*U*	*mg/Kg*			*542-88-1*	*07/28/22 12:34*	*08/02/22 21:23*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*30 - 115*	*07/28/22 12:34*	*08/02/22 21:23*	*2*
2-Fluorophenol	*46*		*25 - 121*	*07/28/22 12:34*	*08/02/22 21:23*	*2*
2,4,6-Tribromophenol	*40*		*19 - 122*	*07/28/22 12:34*	*08/02/22 21:23*	*2*
Nitrobenzene-d5	*41*		*23 - 129*	*07/28/22 12:34*	*08/02/22 21:23*	*2*
Phenol-d5 (Surr)	*45*		*24 - 113*	*07/28/22 12:34*	*08/02/22 21:23*	*2*
p-Terphenyl-d14 (Surr)	*64*		*18 - 137*	*07/28/22 12:34*	*08/02/22 21:23*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	U	51.1	21.6	mg/Kg		08/08/22 17:02	08/08/22 20:02	1
Diesel Range Organics (Over C10-C28)	21.6	U	51.1	21.6	mg/Kg		08/08/22 17:02	08/08/22 20:02	1
Oil Range Organics (Over C28-C36)	21.6	U	51.1	21.6	mg/Kg		08/08/22 17:02	08/08/22 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:02*	*1*
o-Terphenyl (Surr)	*109*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.246	U	0.809	0.246	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Aldrin	0.352	U	0.809	0.352	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Hexachlorocyclohexane, alpha-	0.660	U	0.809	0.660	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Hexachlorocyclohexane, beta-	0.460	U	0.809	0.460	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Chlordane (technical)	23.2	U	40.5	23.2	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Hexachlorocyclohexane, delta-	0.809	U	0.809	0.809	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Dieldrin	0.164	U	0.809	0.164	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Endosulfan I	0.196	U	0.809	0.196	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Endosulfan II	0.361	U	0.809	0.361	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Endosulfan sulfate	0.268	U	0.809	0.268	ug/Kg		07/28/22 14:27	08/01/22 18:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-38-S-3-4-220726

Date Collected: 07/26/22 10:05
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-2

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.282	U	0.809	0.282	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Endrin aldehyde	0.240	U	0.809	0.240	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Hexachlorocyclohexane, gamma-	0.426	U	0.809	0.426	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Heptachlor	0.546	U	0.809	0.546	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Heptachlor epoxide	0.238	U	0.809	0.238	ug/Kg		07/28/22 14:27	08/01/22 18:03	1
Toxaphene	11.0	U	16.2	11.0	ug/Kg		07/28/22 14:27	08/01/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 135*	*07/28/22 14:27*	*08/01/22 18:03*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*07/28/22 14:27*	*08/01/22 18:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00384	U	0.0162	0.00384	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1221	0.00384	U	0.0162	0.00384	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1232	0.00384	U	0.0162	0.00384	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1242	0.00384	U	0.0162	0.00384	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1248	0.00384	U	0.0162	0.00384	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1254	0.00253	U	0.0162	0.00253	mg/Kg		07/28/22 14:27	08/01/22 12:53	1
Aroclor 1260	0.00253	U	0.0162	0.00253	mg/Kg		07/28/22 14:27	08/01/22 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 140*	*07/28/22 14:27*	*08/01/22 12:53*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 142*	*07/28/22 14:27*	*08/01/22 12:53*	*1*

Method: 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	0.0214	U	0.0943	0.0214	mg/Kg		08/02/22 17:50	08/03/22 18:44	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0406	U	0.189	0.0406	mg/Kg		08/02/22 17:50	08/03/22 18:44	1
2,4,6-Trinitrotoluene	0.0290	U	0.0943	0.0290	mg/Kg		08/02/22 17:50	08/03/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*		*83 - 122*	*08/02/22 17:50*	*08/03/22 18:44*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.52	U	9.94	3.52	mg/Kg		08/22/22 14:59	08/23/22 03:49	1
Nitrate as N	0.107	U	0.994	0.107	mg/Kg		08/22/22 14:59	08/23/22 03:49	1
Fluoride	**7.21**		4.97	0.994	mg/Kg		08/22/22 14:59	08/23/22 03:49	1
Nitrite as N	0.0497	U	0.994	0.0497	mg/Kg		08/22/22 14:59	08/23/22 03:49	1
Nitrate Nitrite as N	0.107	U	0.994	0.107	mg/Kg		08/22/22 14:59	08/23/22 03:49	1
Sulfate	**175**		9.94	4.29	mg/Kg		08/22/22 14:59	08/23/22 03:49	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.133**	**J**	0.494	0.0813	ug/Kg		08/02/22 14:51	08/03/22 12:34	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.219	U	0.762	0.219	ug/Kg		08/03/22 13:27	08/20/22 09:20	1
Perfluorohexanesulfonic acid (PFHxS)	0.267	U	0.762	0.267	ug/Kg		08/03/22 13:27	08/20/22 09:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-38-S-3-4-220726

Date Collected: 07/26/22 10:05
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-2

Matrix: Solid

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.133	U	0.762	0.133	ug/Kg		08/03/22 13:27	08/20/22 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/03/22 13:27*	*08/20/22 09:20*	*1*
13C8 PFOS	*105*		*70 - 130*	*08/03/22 13:27*	*08/20/22 09:20*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0132	U	0.167	0.0132	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Arsenic	**3.18**		0.333	0.0514	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Barium	**243**		3.33	0.289	mg/Kg		08/23/22 19:04	08/24/22 18:29	10
Beryllium	**0.120**	**J**	0.167	0.0154	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Cadmium	**0.0639**	**J**	0.167	0.00967	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Chromium	**2.09**		0.333	0.0226	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Copper	**1.45**		0.333	0.0217	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Iron	**1890**		16.7	1.95	mg/Kg		08/23/22 19:04	08/24/22 18:29	10
Manganese	**23.1**		0.167	0.0212	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Lead	**1.19**		0.167	0.0161	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Antimony	**0.194**		0.167	0.00992	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Selenium	**0.116**	**J**	0.167	0.0413	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Thallium	**0.0446**	**J**	0.167	0.0199	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Uranium	**0.450**		0.0833	0.00498	mg/Kg		08/23/22 19:04	08/24/22 18:32	1
Zinc	**6.72**		0.333	0.0369	mg/Kg		08/23/22 19:04	08/24/22 18:32	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0116**	**J**	0.0192	0.00861	mg/Kg		08/19/22 08:59	08/19/22 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**45.3**	**J**	60.2	29.9	ug/Kg		08/09/22 13:09	08/09/22 16:40	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:57	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**	**HF**			SU			08/08/22 17:56	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**160**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**1.38**		0.212	0.268	1.00	0.0596	pCi/g	08/01/22 12:40	08/24/22 14:28	1
Radium-228	0.148	U	0.277	0.278		0.322	pCi/g	08/01/22 12:40	08/24/22 14:28	1
Combined Radium 226 + 228	**1.53**		0.349	0.386		0.322	pCi/g	08/01/22 12:40	08/24/22 14:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-58-S-3-4-220726

Date Collected: 07/26/22 10:45
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.2	U	50.2	39.2	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Acrylonitrile	9.11	U	20.1	9.11	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Benzene	0.736	U	1.00	0.736	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Bromodichloromethane	1.79	U	5.02	1.79	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Tribromomethane	2.22	U	5.02	2.22	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Bromomethane	2.43	U	5.02	2.43	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Methyl tert-butyl ether	1.98	U	5.02	1.98	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Carbon tetrachloride	1.82	U	5.02	1.82	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Monochlorobenzene	1.48	U	5.02	1.48	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Chloroform	1.71	U	5.02	1.71	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Chloromethane	2.87	U	5.02	2.87	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,2-Dibromoethane	1.64	U	5.02	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,2-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,3-Dichlorobenzene	1.46	U	5.02	1.46	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,4-Dichlorobenzene	1.44	U	5.02	1.44	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Dichlorodifluoromethane	3.01	U	5.02	3.01	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1-Dichloroethane	1.64	U	5.02	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,2-Dichloroethane	1.92	U	5.02	1.92	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1-Dichloroethene	1.78	U	5.02	1.78	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
cis-1,2-Dichloroethene	1.50	U	5.02	1.50	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
trans-1,2-Dichloroethene	1.59	U	5.02	1.59	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,2-Dichloropropane	1.70	U	5.02	1.70	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
cis-1,3-Dichloropropene	1.64	U	5.02	1.64	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
trans-1,3-Dichloropropene	1.67	U	5.02	1.67	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1-Dichloropropene	1.75	U	5.02	1.75	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,4-Dioxane	24.1	U	50.2	24.1	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Ethylbenzene	0.668	U	1.00	0.668	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Methylene Chloride	12.5	U	20.1	12.5	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Styrene	1.50	U	5.02	1.50	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1,2,2-Tetrachloroethane	0.165	U	5.02	0.165	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Tetrachloroethene	1.63	U	5.02	1.63	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Toluene	1.92	U	5.02	1.92	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,2,4-Trichlorobenzene	2.01	U	5.02	2.01	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1,1-Trichloroethane	1.68	U	5.02	1.68	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,1,2-Trichloroethane	1.63	U	5.02	1.63	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Trichloroethene	1.91	U	5.02	1.91	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Trichlorofluoromethane	1.79	U	5.02	1.79	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Vinyl chloride	1.85	U *	5.02	1.85	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
Xylenes, Total	0.904	U	2.01	0.904	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
1,3-Dichloropropene, Total	1.67	U	5.02	1.67	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
o-Xylene	0.904	U	1.00	0.904	ug/Kg		07/28/22 15:29	07/28/22 19:57	1
m,p-Xylenes	0.803	U	2.01	0.803	ug/Kg		07/28/22 15:29	07/28/22 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*53 - 142*	*07/28/22 15:29*	*07/28/22 19:57*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/28/22 15:29*	*07/28/22 19:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*07/28/22 15:29*	*07/28/22 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*56 - 150*	*07/28/22 15:29*	*07/28/22 19:57*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-58-S-3-4-220726

Date Collected: 07/26/22 10:45
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-3

Matrix: Solid

Method: 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		08/08/22 16:30	08/08/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*63 - 144*	*08/08/22 16:30*	*08/08/22 19:29*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	59.3	U	326	59.3	ug/Kg		08/02/22 12:32	08/04/22 20:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*		*30 - 164*	*08/02/22 12:32*	*08/04/22 20:39*	*5*

Method: 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		07/28/22 12:34	08/01/22 21:03	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2,4,5-Trichlorophenol	19.0	U	167	19.0	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2,4,6-Trichlorophenol	15.7	U	167	15.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2,4-Dinitrotoluene	12.7	U *	167	12.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzo[a]anthracene	14.1	U *	167	14.1	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzo[b]fluoranthene	12.6	U *	167	12.6	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzo[k]fluoranthene	19.3	U	167	19.3	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzo[g,h,i]perylene	15.3	U	167	15.3	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Di (2-ethylhexyl)phthalate	167	U *	333	167	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
N-Nitrosodi-n-butylamine	25.2	U	167	25.2	ug/Kg		07/28/22 12:34	08/01/22 21:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-58-S-3-4-220726

Date Collected: 07/26/22 10:45
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-3

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
2-Methylnaphthalene	45.1	U	167	45.1	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Phenol	0.0149	U	0.333	0.0149	mg/Kg		07/28/22 12:34	08/01/22 21:03	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/28/22 12:34	08/01/22 21:03	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/28/22 12:34	08/01/22 21:03	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*	*07/28/22 12:34*	*08/01/22 21:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*32*		*30 - 115*	*07/28/22 12:34*	*08/01/22 21:03*	*1*
2-Fluorophenol	*33*		*25 - 121*	*07/28/22 12:34*	*08/01/22 21:03*	*1*
2,4,6-Tribromophenol	*28*		*19 - 122*	*07/28/22 12:34*	*08/01/22 21:03*	*1*
Nitrobenzene-d5	*28*		*23 - 129*	*07/28/22 12:34*	*08/01/22 21:03*	*1*
Phenol-d5 (Surr)	*34*		*24 - 113*	*07/28/22 12:34*	*08/01/22 21:03*	*1*
p-Terphenyl-d14 (Surr)	*37*		*18 - 137*	*07/28/22 12:34*	*08/01/22 21:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.5	U	51.0	21.5	mg/Kg		08/08/22 17:02	08/08/22 20:22	1
Diesel Range Organics (Over C10-C28)	21.5	U	51.0	21.5	mg/Kg		08/08/22 17:02	08/08/22 20:22	1
Oil Range Organics (Over C28-C36)	21.5	U	51.0	21.5	mg/Kg		08/08/22 17:02	08/08/22 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:22*	*1*
o-Terphenyl (Surr)	*123*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.497	U	1.63	0.497	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Aldrin	0.710	U	1.63	0.710	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Hexachlorocyclohexane, alpha-	1.33	U	1.63	1.33	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Hexachlorocyclohexane, beta-	0.927	U	1.63	0.927	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Chlordane (technical)	46.8	U	81.5	46.8	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Hexachlorocyclohexane, delta-	1.63	U	1.63	1.63	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Dieldrin	0.331	U	1.63	0.331	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Endosulfan I	0.395	U	1.63	0.395	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Endosulfan II	0.728	U	1.63	0.728	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Endosulfan sulfate	0.540	U	1.63	0.540	ug/Kg		07/28/22 14:27	08/01/22 18:19	2

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-58-S-3-4-220726

Date Collected: 07/26/22 10:45
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-3

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.569	U	1.63	0.569	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Endrin aldehyde	0.484	U	1.63	0.484	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Hexachlorocyclohexane, gamma-	0.858	U	1.63	0.858	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Heptachlor	1.10	U	1.63	1.10	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Heptachlor epoxide	0.479	U	1.63	0.479	ug/Kg		07/28/22 14:27	08/01/22 18:19	2
Toxaphene	22.1	U	32.6	22.1	ug/Kg		07/28/22 14:27	08/01/22 18:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*35 - 135*	*07/28/22 14:27*	*08/01/22 18:19*	*2*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*	*07/28/22 14:27*	*08/01/22 18:19*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00773	U	0.0326	0.00773	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1221	0.00773	U	0.0326	0.00773	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1232	0.00773	U	0.0326	0.00773	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1242	0.00773	U	0.0326	0.00773	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1248	0.00773	U	0.0326	0.00773	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1254	0.00510	U	0.0326	0.00510	mg/Kg		07/28/22 14:27	08/01/22 15:07	2
Aroclor 1260	0.00510	U	0.0326	0.00510	mg/Kg		07/28/22 14:27	08/01/22 15:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*35 - 140*	*07/28/22 14:27*	*08/01/22 15:07*	*2*
DCB Decachlorobiphenyl (Surr)	*82*		*37 - 142*	*07/28/22 14:27*	*08/01/22 15:07*	*2*

Method: 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	0.0962	0.0218	mg/Kg		08/02/22 17:50	08/03/22 19:30	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0413	U	0.192	0.0413	mg/Kg		08/02/22 17:50	08/03/22 19:30	1
2,4,6-Trinitrotoluene	0.0295	U	0.0962	0.0295	mg/Kg		08/02/22 17:50	08/03/22 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/02/22 17:50*	*08/03/22 19:30*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.51	U	9.92	3.51	mg/Kg		08/22/22 14:59	08/23/22 04:03	1
Nitrate as N	0.107	U	0.992	0.107	mg/Kg		08/22/22 14:59	08/23/22 04:03	1
Fluoride	**4.43**	**J**	4.96	0.992	mg/Kg		08/22/22 14:59	08/23/22 04:03	1
Nitrite as N	0.0496	U	0.992	0.0496	mg/Kg		08/22/22 14:59	08/23/22 04:03	1
Nitrate Nitrite as N	0.107	U	0.992	0.107	mg/Kg		08/22/22 14:59	08/23/22 04:03	1
Sulfate	**143**		9.92	4.29	mg/Kg		08/22/22 14:59	08/23/22 04:03	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.108**	**J**	0.475	0.0783	ug/Kg		08/02/22 14:51	08/03/22 12:39	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.228	U	0.794	0.228	ug/Kg		08/03/22 13:27	08/20/22 09:28	1
Perfluorohexanesulfonic acid (PFHxS)	0.278	U	0.794	0.278	ug/Kg		08/03/22 13:27	08/20/22 09:28	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-58-S-3-4-220726 Lab Sample ID: 860-30328-3

Date Collected: 07/26/22 10:45 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.139	U	0.794	0.139	ug/Kg		08/03/22 13:27	08/20/22 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*08/03/22 13:27*	*08/20/22 09:28*	*1*
13C8 PFOS	*105*		*70 - 130*	*08/03/22 13:27*	*08/20/22 09:28*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0139	U	0.175	0.0139	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Arsenic	**2.12**		0.351	0.0541	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Barium	**187**		3.51	0.304	mg/Kg		08/23/22 19:04	08/24/22 18:47	10
Beryllium	**0.210**		0.175	0.0162	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Cadmium	**0.0562**	**J**	0.175	0.0102	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Chromium	**4.22**		0.351	0.0238	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Copper	**1.90**		0.351	0.0229	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Iron	**3950**		17.5	2.06	mg/Kg		08/23/22 19:04	08/24/22 18:47	10
Manganese	**38.2**		0.175	0.0223	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Lead	**2.49**		0.175	0.0170	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Antimony	**0.139**	**J**	0.175	0.0104	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Selenium	**0.119**	**J**	0.175	0.0435	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Thallium	**0.0611**	**J**	0.175	0.0210	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Uranium	**0.308**		0.0877	0.00524	mg/Kg		08/23/22 19:04	08/24/22 18:35	1
Zinc	**9.71**		0.351	0.0388	mg/Kg		08/23/22 19:04	08/24/22 18:35	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00915**	**J**	0.0189	0.00844	mg/Kg		08/19/22 08:59	08/19/22 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**113**		60.2	29.9	ug/Kg		08/09/22 13:09	08/09/22 16:41	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 22:00	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			08/08/22 17:56	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**157**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**0.911**		0.182	0.211	1.00	0.109	pCi/g	08/01/22 12:40	08/24/22 14:29	1
Radium-228	0.144	U	0.208	0.208		0.319	pCi/g	08/01/22 12:40	08/24/22 14:29	1
Combined Radium 226 + 228	**1.05**		0.276	0.296		0.319	pCi/g	08/01/22 12:40	08/24/22 14:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-80-S-3-4-220726

Date Collected: 07/26/22 11:16
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	38.6	U	49.5	38.6	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Acrylonitrile	8.98	U	19.8	8.98	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Benzene	0.726	U	0.990	0.726	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Bromodichloromethane	1.77	U	4.95	1.77	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Tribromomethane	2.19	U	4.95	2.19	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Bromomethane	2.40	U	4.95	2.40	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Methyl tert-butyl ether	1.96	U	4.95	1.96	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Carbon tetrachloride	1.80	U	4.95	1.80	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Monochlorobenzene	1.46	U	4.95	1.46	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Chloroform	1.68	U	4.95	1.68	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Chloromethane	2.83	U	4.95	2.83	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,2-Dibromoethane	1.61	U	4.95	1.61	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,2-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,3-Dichlorobenzene	1.44	U	4.95	1.44	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,4-Dichlorobenzene	1.42	U	4.95	1.42	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Dichlorodifluoromethane	2.97	U	4.95	2.97	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1-Dichloroethane	1.62	U	4.95	1.62	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,2-Dichloroethane	1.89	U	4.95	1.89	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1-Dichloroethene	1.76	U	4.95	1.76	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
cis-1,2-Dichloroethene	1.48	U	4.95	1.48	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
trans-1,2-Dichloroethene	1.57	U	4.95	1.57	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,2-Dichloropropane	1.68	U	4.95	1.68	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
cis-1,3-Dichloropropene	1.62	U	4.95	1.62	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
trans-1,3-Dichloropropene	1.65	U	4.95	1.65	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1-Dichloropropene	1.73	U	4.95	1.73	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,4-Dioxane	23.8	U	49.5	23.8	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Ethylbenzene	0.658	U	0.990	0.658	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Methylene Chloride	12.3	U	19.8	12.3	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Styrene	1.48	U	4.95	1.48	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1,2,2-Tetrachloroethane	0.163	U	4.95	0.163	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Tetrachloroethene	1.61	U	4.95	1.61	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Toluene	1.89	U	4.95	1.89	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,2,4-Trichlorobenzene	1.98	U	4.95	1.98	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1,1-Trichloroethane	1.66	U	4.95	1.66	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,1,2-Trichloroethane	1.61	U	4.95	1.61	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Trichloroethene	1.88	U	4.95	1.88	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Trichlorofluoromethane	1.77	U	4.95	1.77	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Vinyl chloride	1.83	U *	4.95	1.83	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
Xylenes, Total	0.891	U	1.98	0.891	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
1,3-Dichloropropene, Total	1.65	U	4.95	1.65	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
o-Xylene	0.891	U	0.990	0.891	ug/Kg		07/28/22 15:29	07/28/22 20:20	1
m,p-Xylenes	0.792	U	1.98	0.792	ug/Kg		07/28/22 15:29	07/28/22 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*07/28/22 15:29*	*07/28/22 20:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*07/28/22 15:29*	*07/28/22 20:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*07/28/22 15:29*	*07/28/22 20:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*56 - 150*	*07/28/22 15:29*	*07/28/22 20:20*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-80-S-3-4-220726 Lab Sample ID: 860-30328-4

Date Collected: 07/26/22 11:16 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00502	0.00251	mg/Kg		08/08/22 16:30	08/08/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*	*08/08/22 16:30*	*08/08/22 19:46*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.6	U	63.7	11.6	ug/Kg		08/02/22 12:32	08/04/22 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*100*		*30 - 164*	*08/02/22 12:32*	*08/04/22 20:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	34.3	U	329	34.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
1,2,4,5-Tetrachlorobenzene	32.6	U	329	32.6	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
1-Methylnaphthalene	52.8	U	329	52.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
bis (2-chloroisopropyl) ether	35.1	U	329	35.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2,4,5-Trichlorophenol	37.7	U	329	37.7	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2,4,6-Trichlorophenol	31.1	U	329	31.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2,4-Dinitrotoluene	25.2	U *	329	25.2	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Dinitrophenols	47.8	U	659	47.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2,4-Dichlorophenol	34.5	U	329	34.5	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2,6-Dinitrotoluene	46.0	U	329	46.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Dichlorobenzidine, 3,3'-	30.4	U	659	30.4	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
4,6-Dinitro-2-methylphenol	25.1	U	659	25.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Acenaphthene	30.6	U	329	30.6	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Anthracene	27.3	U	329	27.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Acenaphthylene	29.2	U	329	29.2	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzo[a]anthracene	27.8	U *	329	27.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzo[b]fluoranthene	24.8	U *	329	24.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzo[k]fluoranthene	38.3	U	329	38.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzo[g,h,i]perylene	30.3	U	329	30.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzo[a]pyrene	34.0	U	329	34.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Di (2-ethylhexyl)phthalate	329	U *	659	329	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Bis(2-chloroethyl)ether	30.0	U	329	30.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Chrysene	32.7	U	329	32.7	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Dibutylphthalate	31.7	U	329	31.7	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Dibenz(a,h)anthracene	25.1	U	329	25.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Diethyl phthalate	30.2	U	329	30.2	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Dimethyl phthalate	31.4	U	329	31.4	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Fluoranthene	29.0	U	329	29.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Fluorene	27.3	U	329	27.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Hexachlorobenzene	32.0	U	329	32.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Hexachlorobutadiene	27.3	U	329	27.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Hexachlorocyclopentadiene	30.0	U	329	30.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Hexachloroethane	34.1	U	329	34.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Indeno[1,2,3-cd]pyrene	26.5	U	329	26.5	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Isophorone	28.7	U	329	28.7	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
N-Nitrosodi-n-butylamine	49.9	U	329	49.9	ug/Kg		07/28/22 12:34	08/02/22 21:47	2

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-80-S-3-4-220726 **Lab Sample ID: 860-30328-4**
Date Collected: 07/26/22 11:16 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	43.3	U	329	43.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
N-Nitrosodiphenylamine	36.8	U	329	36.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
N-Nitrosopyrrolidine	27.8	U	329	27.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Pentachlorobenzene	31.4	U	329	31.4	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Pentachlorophenol	24.0	U	659	24.0	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Phenanthrene	32.8	U	329	32.8	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Pyrene	28.9	U	329	28.9	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Naphthalene	30.9	U	329	30.9	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
2-Methylnaphthalene	89.3	U	329	89.3	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Nitrobenzene	36.5	U	329	36.5	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Benzidine	23.9	U	659	23.9	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Phenol	0.0296	U	0.659	0.0296	mg/Kg		07/28/22 12:34	08/02/22 21:47	2
N-Nitrosodimethylamine	33.1	U	329	33.1	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Atrazine	32.6	U	659	32.6	ug/Kg		07/28/22 12:34	08/02/22 21:47	2
Thiophene, tetrahydro-, 1,1-dioxide	658	U	659	658	ug/Kg		07/28/22 12:34	08/02/22 21:47	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*1.32*	*U*	*mg/Kg*			*542-88-1*	*07/28/22 12:34*	*08/02/22 21:47*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*30 - 115*	*07/28/22 12:34*	*08/02/22 21:47*	*2*
2-Fluorophenol	*55*		*25 - 121*	*07/28/22 12:34*	*08/02/22 21:47*	*2*
2,4,6-Tribromophenol	*36*		*19 - 122*	*07/28/22 12:34*	*08/02/22 21:47*	*2*
Nitrobenzene-d5	*47*		*23 - 129*	*07/28/22 12:34*	*08/02/22 21:47*	*2*
Phenol-d5 (Surr)	*53*		*24 - 113*	*07/28/22 12:34*	*08/02/22 21:47*	*2*
p-Terphenyl-d14 (Surr)	*59*		*18 - 137*	*07/28/22 12:34*	*08/02/22 21:47*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.3	U	50.4	21.3	mg/Kg		08/08/22 17:02	08/08/22 20:42	1
Diesel Range Organics (Over C10-C28)	21.3	U	50.4	21.3	mg/Kg		08/08/22 17:02	08/08/22 20:42	1
Oil Range Organics (Over C28-C36)	21.3	U	50.4	21.3	mg/Kg		08/08/22 17:02	08/08/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:42*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*08/08/22 17:02*	*08/08/22 20:42*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		07/28/22 14:27	08/01/22 18:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-80-S-3-4-220726

Date Collected: 07/26/22 11:16
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-4

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.291	U	0.832	0.291	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Heptachlor	0.562	U	0.832	0.562	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		07/28/22 14:27	08/01/22 18:35	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		07/28/22 14:27	08/01/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 135*	*07/28/22 14:27*	*08/01/22 18:35*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*25 - 143*	*07/28/22 14:27*	*08/01/22 18:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		07/28/22 14:27	08/01/22 13:04	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		07/28/22 14:27	08/01/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 140*	*07/28/22 14:27*	*08/01/22 13:04*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*37 - 142*	*07/28/22 14:27*	*08/01/22 13:04*	*1*

Method: 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	0.0972	0.0221	mg/Kg		08/02/22 17:50	08/03/22 19:53	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0418	U	0.194	0.0418	mg/Kg		08/02/22 17:50	08/03/22 19:53	1
2,4,6-Trinitrotoluene	0.0298	U	0.0972	0.0298	mg/Kg		08/02/22 17:50	08/03/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*08/02/22 17:50*	*08/03/22 19:53*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		9.96	3.53	mg/Kg		08/22/22 14:59	08/23/22 04:16	1
Nitrate as N	0.108	U	0.996	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:16	1
Fluoride	**7.67**		4.98	0.996	mg/Kg		08/22/22 14:59	08/23/22 04:16	1
Nitrite as N	0.0498	U	0.996	0.0498	mg/Kg		08/22/22 14:59	08/23/22 04:16	1
Nitrate Nitrite as N	0.108	U	0.996	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:16	1
Sulfate	**224**		9.96	4.30	mg/Kg		08/22/22 14:59	08/23/22 04:16	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.146**	**J**	0.461	0.0759	ug/Kg		08/02/22 14:51	08/03/22 12:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.213	U	0.739	0.213	ug/Kg		08/03/22 13:27	08/20/22 09:37	1
Perfluorohexanesulfonic acid (PFHxS)	0.259	U	0.739	0.259	ug/Kg		08/03/22 13:27	08/20/22 09:37	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell20-Square-80-S-3-4-220726

Date Collected: 07/26/22 11:16
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-4

Matrix: Solid

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.129	U	0.739	0.129	ug/Kg		08/03/22 13:27	08/20/22 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*100*		*57 - 153*	*08/03/22 13:27*	*08/20/22 09:37*	*1*
13C8 PFOS	*104*		*70 - 130*	*08/03/22 13:27*	*08/20/22 09:37*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0137	U	0.172	0.0137	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Arsenic	**3.68**		0.345	0.0532	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Barium	**328**		3.45	0.299	mg/Kg		08/23/22 19:04	08/24/22 18:50	10
Beryllium	**0.146**	**J**	0.172	0.0160	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Cadmium	**0.0530**	**J**	0.172	0.0100	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Chromium	**2.48**		0.345	0.0234	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Copper	**1.42**		0.345	0.0225	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Iron	**2140**		17.2	2.02	mg/Kg		08/23/22 19:04	08/24/22 18:50	10
Manganese	**22.3**		0.172	0.0219	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Lead	**1.34**		0.172	0.0167	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Antimony	**0.124**	**J**	0.172	0.0103	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Selenium	**0.135**	**J**	0.172	0.0428	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Thallium	**0.0502**	**J**	0.172	0.0206	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Uranium	**0.516**		0.0862	0.00515	mg/Kg		08/23/22 19:04	08/24/22 18:38	1
Zinc	**18.2**		0.345	0.0382	mg/Kg		08/23/22 19:04	08/24/22 18:38	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00877	U	0.0196	0.00877	mg/Kg		08/19/22 08:59	08/19/22 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**35.3**	**J**	60.1	29.8	ug/Kg		08/09/22 13:09	08/09/22 16:43	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 22:14	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.2**	**HF**			SU			08/09/22 15:28	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**138**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**0.909**		0.159	0.185	1.00	0.108	pCi/g	08/01/22 12:40	08/24/22 14:27	1
Radium-228	0.0759	U	0.118	0.118		0.271	pCi/g	08/01/22 12:40	08/24/22 14:27	1
Combined Radium 226 + 228	**0.985**		0.198	0.219		0.271	pCi/g	08/01/22 12:40	08/24/22 14:27	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726

Date Collected: 07/26/22 12:26
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	38.5	U	49.4	38.5	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Acrylonitrile	8.96	U	19.8	8.96	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Benzene	0.724	U	0.988	0.724	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Bromodichloromethane	1.76	U	4.94	1.76	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Tribromomethane	2.18	U	4.94	2.18	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Bromomethane	2.39	U	4.94	2.39	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Methyl tert-butyl ether	1.95	U	4.94	1.95	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Carbon tetrachloride	1.79	U	4.94	1.79	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Monochlorobenzene	1.45	U	4.94	1.45	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Chloroform	1.68	U	4.94	1.68	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Chloromethane	2.82	U	4.94	2.82	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,2-Dibromoethane	1.61	U	4.94	1.61	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,2-Dichlorobenzene	1.44	U	4.94	1.44	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,3-Dichlorobenzene	1.44	U	4.94	1.44	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,4-Dichlorobenzene	1.42	U	4.94	1.42	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Dichlorodifluoromethane	2.96	U	4.94	2.96	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1-Dichloroethane	1.62	U	4.94	1.62	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,2-Dichloroethane	1.89	U	4.94	1.89	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1-Dichloroethene	1.76	U	4.94	1.76	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
cis-1,2-Dichloroethene	1.47	U	4.94	1.47	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
trans-1,2-Dichloroethene	1.57	U	4.94	1.57	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,2-Dichloropropane	1.67	U	4.94	1.67	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
cis-1,3-Dichloropropene	1.62	U	4.94	1.62	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
trans-1,3-Dichloropropene	1.65	U	4.94	1.65	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1-Dichloropropene	1.73	U	4.94	1.73	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,4-Dioxane	23.7	U	49.4	23.7	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Ethylbenzene	0.657	U	0.988	0.657	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Methylene Chloride	12.3	U	19.8	12.3	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Styrene	1.47	U	4.94	1.47	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1,2,2-Tetrachloroethane	0.162	U	4.94	0.162	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Tetrachloroethene	1.61	U	4.94	1.61	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Toluene	1.89	U	4.94	1.89	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,2,4-Trichlorobenzene	1.98	U	4.94	1.98	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1,1-Trichloroethane	1.66	U	4.94	1.66	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,1,2-Trichloroethane	1.60	U	4.94	1.60	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Trichloroethene	1.88	U	4.94	1.88	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Trichlorofluoromethane	1.76	U	4.94	1.76	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Vinyl chloride	1.82	U *	4.94	1.82	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
Xylenes, Total	0.889	U	1.98	0.889	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
1,3-Dichloropropene, Total	1.65	U	4.94	1.65	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
o-Xylene	0.889	U	0.988	0.889	ug/Kg		07/28/22 15:29	07/28/22 20:44	1
m,p-Xylenes	0.791	U	1.98	0.791	ug/Kg		07/28/22 15:29	07/28/22 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*07/28/22 15:29*	*07/28/22 20:44*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/28/22 15:29*	*07/28/22 20:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*07/28/22 15:29*	*07/28/22 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*56 - 150*	*07/28/22 15:29*	*07/28/22 20:44*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726

Date Collected: 07/26/22 12:26
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-5

Matrix: Solid

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00502	0.00251	mg/Kg		08/08/22 16:30	08/08/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*08/08/22 16:30*	*08/08/22 20:04*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.7	U	64.2	11.7	ug/Kg		08/02/22 12:32	08/04/22 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*30 - 164*	*08/02/22 12:32*	*08/04/22 21:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	17.0	U	163	17.0	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
1,2,4,5-Tetrachlorobenzene	16.1	U	163	16.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
1-Methylnaphthalene	26.1	U	163	26.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
bis (2-chloroisopropyl) ether	17.4	U	163	17.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2,4,5-Trichlorophenol	18.6	U	163	18.6	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2,4,6-Trichlorophenol	15.4	U	163	15.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2,4-Dinitrotoluene	12.4	U *	163	12.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Dinitrophenols	23.6	U	326	23.6	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2,4-Dichlorophenol	17.0	U	163	17.0	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2,6-Dinitrotoluene	22.7	U	163	22.7	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Dichlorobenzidine, 3,3'-	15.0	U	326	15.0	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
4,6-Dinitro-2-methylphenol	12.4	U	326	12.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Acenaphthene	15.1	U	163	15.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Anthracene	13.5	U	163	13.5	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Acenaphthylene	14.4	U	163	14.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzo[a]anthracene	13.7	U *	163	13.7	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzo[b]fluoranthene	12.3	U *	163	12.3	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzo[k]fluoranthene	18.9	U	163	18.9	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzo[g,h,i]perylene	15.0	U	163	15.0	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzo[a]pyrene	16.8	U	163	16.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Di (2-ethylhexyl)phthalate	163	U *	326	163	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Bis(2-chloroethyl)ether	14.8	U	163	14.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Chrysene	16.1	U	163	16.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Dibutylphthalate	15.7	U	163	15.7	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Dibenz(a,h)anthracene	12.4	U	163	12.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Diethyl phthalate	14.9	U	163	14.9	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Dimethyl phthalate	15.5	U	163	15.5	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Fluoranthene	14.3	U	163	14.3	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Fluorene	13.5	U	163	13.5	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Hexachlorobenzene	15.8	U	163	15.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Hexachlorobutadiene	13.5	U	163	13.5	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Hexachlorocyclopentadiene	14.8	U	163	14.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Hexachloroethane	16.9	U	163	16.9	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Indeno[1,2,3-cd]pyrene	13.1	U	163	13.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Isophorone	14.2	U	163	14.2	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
N-Nitrosodi-n-butylamine	24.7	U	163	24.7	ug/Kg		07/28/22 12:34	08/01/22 21:51	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726

Date Collected: 07/26/22 12:26
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-5

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.4	U	163	21.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
N-Nitrosodiphenylamine	18.2	U	163	18.2	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
N-Nitrosopyrrolidine	13.8	U	163	13.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Pentachlorobenzene	15.5	U	163	15.5	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Pentachlorophenol	11.8	U	326	11.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Phenanthrene	16.2	U	163	16.2	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Pyrene	14.3	U	163	14.3	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Naphthalene	15.3	U	163	15.3	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
2-Methylnaphthalene	44.1	U	163	44.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Nitrobenzene	18.1	U	163	18.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Benzidine	11.8	U	326	11.8	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Phenol	0.0146	U	0.326	0.0146	mg/Kg		07/28/22 12:34	08/01/22 21:51	1
N-Nitrosodimethylamine	16.4	U	163	16.4	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Atrazine	16.1	U	326	16.1	ug/Kg		07/28/22 12:34	08/01/22 21:51	1
Thiophene, tetrahydro-, 1,1-dioxide	325	U	326	325	ug/Kg		07/28/22 12:34	08/01/22 21:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.651*	*U*	*mg/Kg*			*542-88-1*	*07/28/22 12:34*	*08/01/22 21:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*29*	*X*	*30 - 115*	*07/28/22 12:34*	*08/01/22 21:51*	*1*
2-Fluorophenol	*32*		*25 - 121*	*07/28/22 12:34*	*08/01/22 21:51*	*1*
2,4,6-Tribromophenol	*25*		*19 - 122*	*07/28/22 12:34*	*08/01/22 21:51*	*1*
Nitrobenzene-d5	*26*		*23 - 129*	*07/28/22 12:34*	*08/01/22 21:51*	*1*
Phenol-d5 (Surr)	*31*		*24 - 113*	*07/28/22 12:34*	*08/01/22 21:51*	*1*
p-Terphenyl-d14 (Surr)	*34*		*18 - 137*	*07/28/22 12:34*	*08/01/22 21:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.4	U	50.7	21.4	mg/Kg		08/08/22 17:02	08/08/22 21:03	1
Diesel Range Organics (Over C10-C28)	21.4	U	50.7	21.4	mg/Kg		08/08/22 17:02	08/08/22 21:03	1
Oil Range Organics (Over C28-C36)	21.4	U	50.7	21.4	mg/Kg		08/08/22 17:02	08/08/22 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*08/08/22 17:02*	*08/08/22 21:03*	*1*
o-Terphenyl (Surr)	*116*		*65 - 130*	*08/08/22 17:02*	*08/08/22 21:03*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.831	0.253	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Aldrin	0.362	U	0.831	0.362	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Hexachlorocyclohexane, alpha-	0.678	U	0.831	0.678	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Hexachlorocyclohexane, beta-	0.473	U	0.831	0.473	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Chlordane (technical)	23.8	U	41.6	23.8	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Hexachlorocyclohexane, delta-	0.831	U	0.831	0.831	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Dieldrin	0.169	U	0.831	0.169	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Endosulfan I	0.201	U	0.831	0.201	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Endosulfan II	0.371	U	0.831	0.371	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Endosulfan sulfate	0.275	U	0.831	0.275	ug/Kg		07/28/22 14:27	08/01/22 19:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726

Lab Sample ID: 860-30328-5
Matrix: Solid
Date Collected: 07/26/22 12:26
Date Received: 07/27/22 10:28

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.290	U	0.831	0.290	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Endrin aldehyde	0.247	U	0.831	0.247	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Hexachlorocyclohexane, gamma-	0.438	U	0.831	0.438	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Heptachlor	0.561	U	0.831	0.561	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Heptachlor epoxide	0.244	U	0.831	0.244	ug/Kg		07/28/22 14:27	08/01/22 19:22	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		07/28/22 14:27	08/01/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 135*	*07/28/22 14:27*	*08/01/22 19:22*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*25 - 143*	*07/28/22 14:27*	*08/01/22 19:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		07/28/22 14:27	08/01/22 13:16	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		07/28/22 14:27	08/01/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*35 - 140*	*07/28/22 14:27*	*08/01/22 13:16*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*37 - 142*	*07/28/22 14:27*	*08/01/22 13:16*	*1*

Method: 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	0.0220	U	0.0967	0.0220	mg/Kg		08/02/22 17:50	08/03/22 20:16	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0416	U	0.193	0.0416	mg/Kg		08/02/22 17:50	08/03/22 20:16	1
2,4,6-Trinitrotoluene	0.0297	U	0.0967	0.0297	mg/Kg		08/02/22 17:50	08/03/22 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/02/22 17:50*	*08/03/22 20:16*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.15**	**J**	9.94	3.52	mg/Kg		08/22/22 14:59	08/23/22 04:30	1
Nitrate as N	0.107	U	0.994	0.107	mg/Kg		08/22/22 14:59	08/23/22 04:30	1
Fluoride	**5.85**		4.97	0.994	mg/Kg		08/22/22 14:59	08/23/22 04:30	1
Nitrite as N	0.0497	U	0.994	0.0497	mg/Kg		08/22/22 14:59	08/23/22 04:30	1
Nitrate Nitrite as N	0.107	U	0.994	0.107	mg/Kg		08/22/22 14:59	08/23/22 04:30	1
Sulfate	**345**		9.94	4.29	mg/Kg		08/22/22 14:59	08/23/22 04:30	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.196**	**J**	0.497	0.0819	ug/Kg		08/02/22 14:51	08/03/22 13:17	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.221	U	0.767	0.221	ug/Kg		08/03/22 13:27	08/20/22 09:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.268	U	0.767	0.268	ug/Kg		08/03/22 13:27	08/20/22 09:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-20-S-3-4-220726

Date Collected: 07/26/22 12:26
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-5

Matrix: Solid

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.134	U	0.767	0.134	ug/Kg		08/03/22 13:27	08/20/22 09:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/03/22 13:27*	*08/20/22 09:46*	*1*
13C8 PFOS	*104*		*70 - 130*	*08/03/22 13:27*	*08/20/22 09:46*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0142	U	0.179	0.0142	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Arsenic	**3.37**		0.357	0.0551	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Barium	**418**		3.57	0.310	mg/Kg		08/23/22 19:04	08/24/22 18:53	10
Beryllium	**0.0805**	**J**	0.179	0.0165	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Cadmium	**0.0391**	**J**	0.179	0.0104	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Chromium	**1.46**		0.357	0.0242	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Copper	**1.22**		0.357	0.0233	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Iron	**1390**		17.9	2.09	mg/Kg		08/23/22 19:04	08/24/22 18:53	10
Manganese	**13.0**		0.179	0.0227	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Lead	**1.00**		0.179	0.0173	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Antimony	**0.0889**	**J**	0.179	0.0106	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Selenium	**0.0746**	**J**	0.179	0.0443	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Thallium	**0.0296**	**J**	0.179	0.0213	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Uranium	**0.452**		0.0893	0.00534	mg/Kg		08/23/22 19:04	08/24/22 18:41	1
Zinc	**8.65**		0.357	0.0395	mg/Kg		08/23/22 19:04	08/24/22 18:41	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00877	U	0.0196	0.00877	mg/Kg		08/19/22 08:59	08/19/22 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**79.1**		59.9	29.7	ug/Kg		08/09/22 13:09	08/09/22 16:44	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 22:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.1**	**HF**			SU			08/09/22 15:28	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**220**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**1.36**		0.226	0.265	1.00	0.148	pCi/g	08/01/22 12:40	08/24/22 14:28	1
Radium-228	0.0763	U	0.244	0.244		0.340	pCi/g	08/01/22 12:40	08/24/22 14:28	1
Combined Radium 226 + 228	**1.43**		0.333	0.360		0.340	pCi/g	08/01/22 12:40	08/24/22 14:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-40-S-3-4-220726

Date Collected: 07/26/22 13:00
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.3	U	50.4	39.3	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Acrylonitrile	9.15	U	20.2	9.15	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Benzene	0.739	U	1.01	0.739	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Bromodichloromethane	1.80	U	5.04	1.80	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Tribromomethane	2.23	U	5.04	2.23	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Bromomethane	2.44	U	5.04	2.44	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Methyl tert-butyl ether	1.99	U	5.04	1.99	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Carbon tetrachloride	1.83	U	5.04	1.83	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Monochlorobenzene	1.48	U	5.04	1.48	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Chloroform	1.71	U	5.04	1.71	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Chloromethane	2.88	U	5.04	2.88	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,2-Dibromoethane	1.64	U	5.04	1.64	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,2-Dichlorobenzene	1.46	U	5.04	1.46	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,3-Dichlorobenzene	1.47	U	5.04	1.47	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,4-Dichlorobenzene	1.45	U	5.04	1.45	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Dichlorodifluoromethane	3.02	U	5.04	3.02	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1-Dichloroethane	1.65	U	5.04	1.65	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,2-Dichloroethane	1.93	U	5.04	1.93	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1-Dichloroethene	1.79	U	5.04	1.79	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
cis-1,2-Dichloroethene	1.50	U	5.04	1.50	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
trans-1,2-Dichloroethene	1.60	U	5.04	1.60	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,2-Dichloropropane	1.71	U	5.04	1.71	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
cis-1,3-Dichloropropene	1.65	U	5.04	1.65	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
trans-1,3-Dichloropropene	1.68	U	5.04	1.68	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1-Dichloropropene	1.76	U	5.04	1.76	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,4-Dioxane	24.2	U	50.4	24.2	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Ethylbenzene	0.670	U	1.01	0.670	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Methylene Chloride	12.6	U	20.2	12.6	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Styrene	1.50	U	5.04	1.50	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1,2,2-Tetrachloroethane	0.166	U	5.04	0.166	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Tetrachloroethene	1.64	U	5.04	1.64	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Toluene	1.93	U	5.04	1.93	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,2,4-Trichlorobenzene	2.02	U	5.04	2.02	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1,1-Trichloroethane	1.69	U	5.04	1.69	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,1,2-Trichloroethane	1.64	U	5.04	1.64	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Trichloroethene	1.92	U	5.04	1.92	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Trichlorofluoromethane	1.80	U	5.04	1.80	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Vinyl chloride	1.86	U *	5.04	1.86	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
Xylenes, Total	0.907	U	2.02	0.907	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
1,3-Dichloropropene, Total	1.68	U	5.04	1.68	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
o-Xylene	0.907	U	1.01	0.907	ug/Kg		07/28/22 15:29	07/28/22 21:07	1
m,p-Xylenes	0.806	U	2.02	0.806	ug/Kg		07/28/22 15:29	07/28/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*07/28/22 15:29*	*07/28/22 21:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*07/28/22 15:29*	*07/28/22 21:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*07/28/22 15:29*	*07/28/22 21:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*56 - 150*	*07/28/22 15:29*	*07/28/22 21:07*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-40-S-3-4-220726

Date Collected: 07/26/22 13:00
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-6

Matrix: Solid

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00501	0.00251	mg/Kg		08/08/22 16:30	08/08/22 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*68*		*63 - 144*	*08/08/22 16:30*	*08/08/22 20:21*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.6	U	63.9	11.6	ug/Kg		08/02/22 12:32	08/05/22 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*105*		*30 - 164*	*08/02/22 12:32*	*08/05/22 23:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine(as Azobenzene)	16.9	U	162	16.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
1,2,4,5-Tetrachlorobenzene	16.0	U	162	16.0	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
1-Methylnaphthalene	25.9	U	162	25.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
bis (2-chloroisopropyl) ether	17.2	U	162	17.2	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2,4,5-Trichlorophenol	18.5	U	162	18.5	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2,4,6-Trichlorophenol	15.3	U	162	15.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2,4-Dinitrotoluene	12.3	U *	162	12.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Dinitrophenols	23.5	U	323	23.5	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2,4-Dichlorophenol	16.9	U	162	16.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2,6-Dinitrotoluene	22.6	U	162	22.6	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Dichlorobenzidine, 3,3'-	14.9	U	323	14.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
4,6-Dinitro-2-methylphenol	12.3	U	323	12.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Acenaphthene	15.0	U	162	15.0	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Anthracene	13.4	U	162	13.4	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Acenaphthylene	14.3	U	162	14.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzo[a]anthracene	13.6	U *	162	13.6	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzo[b]fluoranthene	12.2	U *	162	12.2	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzo[k]fluoranthene	18.8	U	162	18.8	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzo[g,h,i]perylene	14.9	U	162	14.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzo[a]pyrene	16.7	U	162	16.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Di (2-ethylhexyl)phthalate	162	U *	323	162	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Bis(2-chloroethyl)ether	14.7	U	162	14.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Chrysene	16.0	U	162	16.0	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Dibutylphthalate	15.6	U	162	15.6	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Dibenz(a,h)anthracene	12.3	U	162	12.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Diethyl phthalate	14.8	U	162	14.8	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Dimethyl phthalate	15.4	U	162	15.4	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Fluoranthene	14.2	U	162	14.2	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Fluorene	13.4	U	162	13.4	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Hexachlorobenzene	15.7	U	162	15.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Hexachlorobutadiene	13.4	U	162	13.4	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Hexachlorocyclopentadiene	14.7	U	162	14.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Hexachloroethane	16.8	U	162	16.8	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Indeno[1,2,3-cd]pyrene	13.0	U	162	13.0	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Isophorone	14.1	U	162	14.1	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
N-Nitrosodi-n-butylamine	24.5	U	162	24.5	ug/Kg		07/28/22 12:34	08/01/22 19:52	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-40-S-3-4-220726 **Lab Sample ID: 860-30328-6**
Date Collected: 07/26/22 13:00 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.3	U	162	21.3	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
N-Nitrosodiphenylamine	18.1	U	162	18.1	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
N-Nitrosopyrrolidine	13.7	U	162	13.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Pentachlorobenzene	15.4	U	162	15.4	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Pentachlorophenol	11.8	U	323	11.8	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Phenanthrene	16.1	U	162	16.1	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Pyrene	14.2	U	162	14.2	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Naphthalene	15.1	U	162	15.1	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
2-Methylnaphthalene	43.8	U	162	43.8	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Nitrobenzene	17.9	U	162	17.9	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Benzidine	11.7	U	323	11.7	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Phenol	0.0145	U	0.323	0.0145	mg/Kg		07/28/22 12:34	08/01/22 19:52	1
N-Nitrosodimethylamine	16.2	U	162	16.2	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Atrazine	16.0	U	323	16.0	ug/Kg		07/28/22 12:34	08/01/22 19:52	1
Thiophene, tetrahydro-, 1,1-dioxide	323	U	323	323	ug/Kg		07/28/22 12:34	08/01/22 19:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.646*	*U*	*mg/Kg*			*542-88-1*	*07/28/22 12:34*	*08/01/22 19:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*27*	*X*	*30 - 115*	*07/28/22 12:34*	*08/01/22 19:52*	*1*
2-Fluorophenol	*29*		*25 - 121*	*07/28/22 12:34*	*08/01/22 19:52*	*1*
2,4,6-Tribromophenol	*22*		*19 - 122*	*07/28/22 12:34*	*08/01/22 19:52*	*1*
Nitrobenzene-d5	*25*		*23 - 129*	*07/28/22 12:34*	*08/01/22 19:52*	*1*
Phenol-d5 (Surr)	*29*		*24 - 113*	*07/28/22 12:34*	*08/01/22 19:52*	*1*
p-Terphenyl-d14 (Surr)	*29*		*18 - 137*	*07/28/22 12:34*	*08/01/22 19:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.8	U	49.3	20.8	mg/Kg		08/08/22 17:02	08/08/22 21:43	1
Diesel Range Organics (Over C10-C28)	20.8	U	49.3	20.8	mg/Kg		08/08/22 17:02	08/08/22 21:43	1
Oil Range Organics (Over C28-C36)	20.8	U	49.3	20.8	mg/Kg		08/08/22 17:02	08/08/22 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*08/08/22 17:02*	*08/08/22 21:43*	*1*
o-Terphenyl (Surr)	*118*		*65 - 130*	*08/08/22 17:02*	*08/08/22 21:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.252	U	0.828	0.252	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Aldrin	0.360	U	0.828	0.360	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Hexachlorocyclohexane, alpha-	0.675	U	0.828	0.675	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Hexachlorocyclohexane, beta-	0.470	U	0.828	0.470	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Chlordane (technical)	23.7	U	41.4	23.7	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Hexachlorocyclohexane, delta-	0.828	U	0.828	0.828	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Dieldrin	0.168	U	0.828	0.168	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Endosulfan I	0.200	U	0.828	0.200	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Endosulfan II	0.370	U	0.828	0.370	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Endosulfan sulfate	0.274	U	0.828	0.274	ug/Kg		07/28/22 14:27	08/01/22 19:38	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Client Sample ID: Cell21-Square-40-S-3-4-220726

Date Collected: 07/26/22 13:00
Date Received: 07/27/22 10:28

Lab Sample ID: 860-30328-6

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.289	U	0.828	0.289	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Endrin aldehyde	0.246	U	0.828	0.246	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Hexachlorocyclohexane, gamma-	0.436	U	0.828	0.436	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Heptachlor	0.558	U	0.828	0.558	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Heptachlor epoxide	0.243	U	0.828	0.243	ug/Kg		07/28/22 14:27	08/01/22 19:38	1
Toxaphene	11.2	U	16.5	11.2	ug/Kg		07/28/22 14:27	08/01/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 135*	*07/28/22 14:27*	*08/01/22 19:38*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*07/28/22 14:27*	*08/01/22 19:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00392	U	0.0166	0.00392	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1221	0.00392	U	0.0166	0.00392	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1232	0.00392	U	0.0166	0.00392	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1242	0.00392	U	0.0166	0.00392	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1248	0.00392	U	0.0166	0.00392	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1254	0.00259	U	0.0166	0.00259	mg/Kg		07/28/22 14:27	08/01/22 13:27	1
Aroclor 1260	0.00259	U	0.0166	0.00259	mg/Kg		07/28/22 14:27	08/01/22 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*35 - 140*	*07/28/22 14:27*	*08/01/22 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 142*	*07/28/22 14:27*	*08/01/22 13:27*	*1*

Method: 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	0.0928	0.0211	mg/Kg		08/02/22 17:50	08/03/22 20:39	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.186	0.0399	mg/Kg		08/02/22 17:50	08/03/22 20:39	1
2,4,6-Trinitrotoluene	0.0285	U	0.0928	0.0285	mg/Kg		08/02/22 17:50	08/03/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*08/02/22 17:50*	*08/03/22 20:39*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.53	U	9.98	3.53	mg/Kg		08/22/22 14:59	08/23/22 04:44	1
Nitrate as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:44	1
Fluoride	**7.05**		4.99	0.998	mg/Kg		08/22/22 14:59	08/23/22 04:44	1
Nitrite as N	0.0499	U	0.998	0.0499	mg/Kg		08/22/22 14:59	08/23/22 04:44	1
Nitrate Nitrite as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:44	1
Sulfate	**207**		9.98	4.31	mg/Kg		08/22/22 14:59	08/23/22 04:44	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.131**	**J**	0.479	0.0789	ug/Kg		08/02/22 14:51	08/03/22 13:22	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.222	U	0.771	0.222	ug/Kg		08/03/22 13:27	08/20/22 10:12	1
Perfluorohexanesulfonic acid (PFHxS)	0.270	U	0.771	0.270	ug/Kg		08/03/22 13:27	08/20/22 10:12	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-40-S-3-4-220726 Lab Sample ID: 860-30328-6

Date Collected: 07/26/22 13:00 **Matrix: Solid**
Date Received: 07/27/22 10:28

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.135	U	0.771	0.135	ug/Kg		08/03/22 13:27	08/20/22 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*100*		*57 - 153*	*08/03/22 13:27*	*08/20/22 10:12*	*1*
13C8 PFOS	*101*		*70 - 130*	*08/03/22 13:27*	*08/20/22 10:12*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0135	U	0.169	0.0135	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Arsenic	**2.52**		0.339	0.0523	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Barium	**336**		3.39	0.294	mg/Kg		08/23/22 19:04	08/24/22 18:56	10
Beryllium	**0.106**	**J**	0.169	0.0157	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Cadmium	**0.0425**	**J**	0.169	0.00983	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Chromium	**1.88**		0.339	0.0230	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Copper	**1.26**		0.339	0.0221	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Iron	**1760**		16.9	1.99	mg/Kg		08/23/22 19:04	08/24/22 18:56	10
Manganese	**14.3**		0.169	0.0216	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Lead	**1.15**		0.169	0.0164	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Antimony	**0.0986**	**J**	0.169	0.0101	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Selenium	**0.0894**	**J**	0.169	0.0421	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Thallium	**0.0342**	**J**	0.169	0.0203	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Uranium	**0.382**		0.0847	0.00507	mg/Kg		08/23/22 19:04	08/24/22 18:44	1
Zinc	**6.13**		0.339	0.0375	mg/Kg		08/23/22 19:04	08/24/22 18:44	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		08/19/22 08:59	08/19/22 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**73.4**		60.1	29.8	ug/Kg		08/09/22 13:09	08/09/22 16:46	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 22:19	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**	**HF**			SU			08/09/22 15:28	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**125**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**0.866**		0.143	0.169	1.00	0.0774	pCi/g	08/01/22 12:40	08/24/22 14:29	1
Radium-228	**0.290**		0.149	0.152		0.136	pCi/g	08/01/22 12:40	08/24/22 14:29	1
Combined Radium 226 + 228	**1.16**		0.207	0.227		0.136	pCi/g	08/01/22 12:40	08/24/22 14:29	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

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)
860-30328-1	Cell20-Square-60-S-3-4-220726	94	102	106	127
860-30328-2	Cell20-Square-38-S-3-4-220726	96	101	106	122
860-30328-3	Cell20-Square-58-S-3-4-220726	88	101	102	122
860-30328-4	Cell20-Square-80-S-3-4-220726	93	101	95	125
860-30328-5	Cell21-Square-20-S-3-4-220726	94	102	102	121
860-30328-6	Cell21-Square-40-S-3-4-220726	92	102	98	118
LCS 860-62746/3	Lab Control Sample	97	99	98	118
LCSD 860-62746/4	Lab Control Sample Dup	97	99	100	114
MB 860-62746/8	Method Blank	94	101	101	124

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)
860-30328-1	Cell20-Square-60-S-3-4-220726	88
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	60 X
860-30328-2	Cell20-Square-38-S-3-4-220726	82
860-30328-3	Cell20-Square-58-S-3-4-220726	88
860-30328-4	Cell20-Square-80-S-3-4-220726	108
860-30328-5	Cell21-Square-20-S-3-4-220726	95
860-30328-6	Cell21-Square-40-S-3-4-220726	68
LCS 860-63953/4	Lab Control Sample	103
LCSD 860-63953/21	Lab Control Sample Dup	92
MB 860-63953/8	Method Blank	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-30328-1	Cell20-Square-60-S-3-4-220726	102

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270D - Pesticides by GC/MS (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TPP (30-164)						
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	99						
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	104						
860-30328-2	Cell20-Square-38-S-3-4-220726	95						
860-30328-3	Cell20-Square-58-S-3-4-220726	84						
860-30328-4	Cell20-Square-80-S-3-4-220726	100						
860-30328-5	Cell21-Square-20-S-3-4-220726	86						
860-30328-6	Cell21-Square-40-S-3-4-220726	105						
LCS 400-587220/2-A	Lab Control Sample	100						
MB 400-587220/1-A	Method Blank	88						

Surrogate Legend

TPP = Triphenylphosphate

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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)	
860-30328-1	Cell20-Square-60-S-3-4-220726	49	48	40	41	45	66	
860-30328-2	Cell20-Square-38-S-3-4-220726	49	46	40	41	45	64	
860-30328-3	Cell20-Square-58-S-3-4-220726	32	33	28	28	34	37	
860-30328-4	Cell20-Square-80-S-3-4-220726	55	55	36	47	53	59	
860-30328-5	Cell21-Square-20-S-3-4-220726	29 X	32	25	26	31	34	
860-30328-6	Cell21-Square-40-S-3-4-220726	27 X	29	22	25	29	29	
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	30	31	31	30	32	33	
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	30	31	29	29	32	31	
LCS 860-62782/2-A	Lab Control Sample	34	38	34	36	41	38	
LCS 860-62782/2-A	Lab Control Sample	34	37	37	38	38	37	
LCSD 860-62782/3-A	Lab Control Sample Dup	32	37	33	34	39	37	
LCSD 860-62782/3-A	Lab Control Sample Dup	32	35	35	31	36	37	
MB 860-62782/1-A	Method Blank	35	38	28	32	37	37	

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)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-30328-1	Cell20-Square-60-S-3-4-220726	99	121
860-30328-2	Cell20-Square-38-S-3-4-220726	88	109
860-30328-3	Cell20-Square-58-S-3-4-220726	96	123
860-30328-4	Cell20-Square-80-S-3-4-220726	93	114
860-30328-5	Cell21-Square-20-S-3-4-220726	93	116
860-30328-6	Cell21-Square-40-S-3-4-220726	93	118
LCS 860-64061/2-A	Lab Control Sample	89	113
LCSD 860-64061/3-A	Lab Control Sample Dup	93	116
MB 860-64061/1-A	Method Blank	88	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-30328-1	Cell20-Square-60-S-3-4-220726	64	82
860-30328-2	Cell20-Square-38-S-3-4-220726	75	82
860-30328-3	Cell20-Square-58-S-3-4-220726	76	82
860-30328-4	Cell20-Square-80-S-3-4-220726	69	76
860-30328-5	Cell21-Square-20-S-3-4-220726	75	81
860-30328-6	Cell21-Square-40-S-3-4-220726	75	79
LCS 860-62820/2-A	Lab Control Sample	73	84
LCSD 860-62820/3-A	Lab Control Sample Dup	71	82
MB 860-62820/1-A	Method Blank	82	96

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

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)
860-30328-1	Cell20-Square-60-S-3-4-220726	66	81
860-30328-2	Cell20-Square-38-S-3-4-220726	79	79
860-30328-3	Cell20-Square-58-S-3-4-220726	77	82

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
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)
860-30328-4	Cell20-Square-80-S-3-4-220726	70	72
860-30328-5	Cell21-Square-20-S-3-4-220726	77	79
860-30328-6	Cell21-Square-40-S-3-4-220726	76	80
LCS 860-62820/15-A	Lab Control Sample	79	80
LCSD 860-62820/16-A	Lab Control Sample Dup	78	80
MB 860-62820/1-A	Method Blank	88	91

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)
860-30328-1	Cell20-Square-60-S-3-4-220726	106
860-30328-2	Cell20-Square-38-S-3-4-220726	107
860-30328-3	Cell20-Square-58-S-3-4-220726	104
860-30328-4	Cell20-Square-80-S-3-4-220726	105
860-30328-5	Cell21-Square-20-S-3-4-220726	104
860-30328-6	Cell21-Square-40-S-3-4-220726	105
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	103
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	101
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	100
860-30328-6 TRL	Cell21-Square-40-S-3-4-220726	106
LCS 280-582759/2-A	Lab Control Sample	103
MB 280-582759/1-A	Method Blank	106

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)
860-30328-1	Cell20-Square-60-S-3-4-220726	104	103
860-30328-2	Cell20-Square-38-S-3-4-220726	102	105
860-30328-3	Cell20-Square-58-S-3-4-220726	103	105

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)								
860-30328-4	Cell20-Square-80-S-3-4-220726	100	104								
860-30328-5	Cell21-Square-20-S-3-4-220726	102	104								
860-30328-5 MS	Cell21-Square-20-S-3-4-220726	103	103								
860-30328-5 MSD	Cell21-Square-20-S-3-4-220726	99	106								
860-30328-6	Cell21-Square-40-S-3-4-220726	100	101								
DLCK 280-584623/13	Lab Control Sample	104	101								
LCS 280-582854/2-A	Lab Control Sample	101	105								
MB 280-582854/1-A	Method Blank	101	105								

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: 860-30328-1

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

Lab Sample ID: MB 860-62746/8
Matrix: Solid
Analysis Batch: 62746

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.0	U	50.0	39.0	ug/Kg			07/28/22 13:54	1
Acrylonitrile	9.07	U	20.0	9.07	ug/Kg			07/28/22 13:54	1
Benzene	0.733	U	1.00	0.733	ug/Kg			07/28/22 13:54	1
Bromodichloromethane	1.79	U	5.00	1.79	ug/Kg			07/28/22 13:54	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			07/28/22 13:54	1
Bromomethane	2.42	U	5.00	2.42	ug/Kg			07/28/22 13:54	1
Methyl tert-butyl ether	1.98	U	5.00	1.98	ug/Kg			07/28/22 13:54	1
Carbon tetrachloride	1.81	U	5.00	1.81	ug/Kg			07/28/22 13:54	1
Monochlorobenzene	1.47	U	5.00	1.47	ug/Kg			07/28/22 13:54	1
Chloroform	1.70	U	5.00	1.70	ug/Kg			07/28/22 13:54	1
Chloromethane	2.86	U	5.00	2.86	ug/Kg			07/28/22 13:54	1
1,2-Dibromoethane	1.63	U	5.00	1.63	ug/Kg			07/28/22 13:54	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			07/28/22 13:54	1
1,3-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			07/28/22 13:54	1
1,4-Dichlorobenzene	1.44	U	5.00	1.44	ug/Kg			07/28/22 13:54	1
Dichlorodifluoromethane	3.00	U	5.00	3.00	ug/Kg			07/28/22 13:54	1
1,1-Dichloroethane	1.64	U	5.00	1.64	ug/Kg			07/28/22 13:54	1
1,2-Dichloroethane	1.91	U	5.00	1.91	ug/Kg			07/28/22 13:54	1
1,1-Dichloroethene	1.78	U	5.00	1.78	ug/Kg			07/28/22 13:54	1
cis-1,2-Dichloroethene	1.49	U	5.00	1.49	ug/Kg			07/28/22 13:54	1
trans-1,2-Dichloroethene	1.59	U	5.00	1.59	ug/Kg			07/28/22 13:54	1
1,2-Dichloropropane	1.69	U	5.00	1.69	ug/Kg			07/28/22 13:54	1
cis-1,3-Dichloropropene	1.64	U	5.00	1.64	ug/Kg			07/28/22 13:54	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			07/28/22 13:54	1
1,1-Dichloropropene	1.75	U	5.00	1.75	ug/Kg			07/28/22 13:54	1
1,4-Dioxane	24.0	U	50.0	24.0	ug/Kg			07/28/22 13:54	1
Ethylbenzene	0.665	U	1.00	0.665	ug/Kg			07/28/22 13:54	1
Methylene Chloride	12.5	U	20.0	12.5	ug/Kg			07/28/22 13:54	1
Styrene	1.49	U	5.00	1.49	ug/Kg			07/28/22 13:54	1
1,1,2,2-Tetrachloroethane	0.164	U	5.00	0.164	ug/Kg			07/28/22 13:54	1
Tetrachloroethene	1.63	U	5.00	1.63	ug/Kg			07/28/22 13:54	1
Toluene	1.91	U	5.00	1.91	ug/Kg			07/28/22 13:54	1
1,2,4-Trichlorobenzene	2.00	U	5.00	2.00	ug/Kg			07/28/22 13:54	1
1,1,1-Trichloroethane	1.68	U	5.00	1.68	ug/Kg			07/28/22 13:54	1
1,1,2-Trichloroethane	1.62	U	5.00	1.62	ug/Kg			07/28/22 13:54	1
Trichloroethene	1.90	U	5.00	1.90	ug/Kg			07/28/22 13:54	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			07/28/22 13:54	1
Vinyl chloride	1.85	U	5.00	1.85	ug/Kg			07/28/22 13:54	1
Xylenes, Total	0.900	U	2.00	0.900	ug/Kg			07/28/22 13:54	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			07/28/22 13:54	1
o-Xylene	0.900	U	1.00	0.900	ug/Kg			07/28/22 13:54	1
m,p-Xylenes	0.800	U	2.00	0.800	ug/Kg			07/28/22 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*53 - 142*		*07/28/22 13:54*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/28/22 13:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*		*07/28/22 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*56 - 150*		*07/28/22 13:54*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

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

Lab Sample ID: LCS 860-62746/3
Matrix: Solid
Analysis Batch: 62746

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	155.5		ug/Kg		62	50 - 150
Acrylonitrile	500	489.1		ug/Kg		98	50 - 150
Benzene	50.0	44.29		ug/Kg		89	66 - 142
Bromodichloromethane	50.0	54.05		ug/Kg		108	78 - 130
Tribromomethane	50.0	49.83		ug/Kg		100	63 - 136
Bromomethane	50.0	57.15		ug/Kg		114	60 - 140
Methyl tert-butyl ether	50.0	52.49		ug/Kg		105	64 - 148
Carbon tetrachloride	50.0	48.46		ug/Kg		97	63 - 135
Monochlorobenzene	50.0	44.09		ug/Kg		88	83 - 130
Chloroform	50.0	47.38		ug/Kg		95	74 - 130
Chloromethane	50.0	60.85		ug/Kg		122	58 - 130
1,2-Dibromoethane	50.0	45.82		ug/Kg		92	73 - 130
1,2-Dichlorobenzene	50.0	44.91		ug/Kg		90	84 - 130
1,3-Dichlorobenzene	50.0	44.78		ug/Kg		90	84 - 130
1,4-Dichlorobenzene	50.0	43.21		ug/Kg		86	82 - 130
Dichlorodifluoromethane	50.0	54.09		ug/Kg		108	54 - 130
1,1-Dichloroethane	50.0	45.86		ug/Kg		92	73 - 130
1,2-Dichloroethane	50.0	53.81		ug/Kg		108	70 - 130
1,1-Dichloroethene	50.0	39.73		ug/Kg		79	68 - 130
cis-1,2-Dichloroethene	50.0	47.51		ug/Kg		95	72 - 131
trans-1,2-Dichloroethene	50.0	39.60		ug/Kg		79	63 - 130
1,2-Dichloropropane	50.0	48.81		ug/Kg		98	75 - 130
cis-1,3-Dichloropropene	50.0	53.72		ug/Kg		107	74 - 135
trans-1,3-Dichloropropene	50.0	56.58		ug/Kg		113	73 - 130
1,1-Dichloropropene	50.0	44.20		ug/Kg		88	72 - 130
1,4-Dioxane	1000	919.0		ug/Kg		92	65 - 135
Ethylbenzene	50.0	47.32		ug/Kg		95	80 - 130
Methylene Chloride	50.0	47.19		ug/Kg		94	57 - 134
Styrene	50.0	51.06		ug/Kg		102	80 - 130
1,1,2,2-Tetrachloroethane	50.0	45.63		ug/Kg		91	75 - 133
Tetrachloroethene	50.0	41.23		ug/Kg		82	79 - 130
Toluene	50.0	42.68		ug/Kg		85	74 - 130
1,2,4-Trichlorobenzene	50.0	48.00		ug/Kg		96	79 - 130
1,1,1-Trichloroethane	50.0	48.90		ug/Kg		98	71 - 130
1,1,2-Trichloroethane	50.0	46.13		ug/Kg		92	75 - 131
Trichloroethene	50.0	44.22		ug/Kg		88	78 - 130
Trichlorofluoromethane	50.0	68.36		ug/Kg		137	71 - 148
Vinyl chloride	50.0	68.62	*	ug/Kg		137	60 - 130
Xylenes, Total	100	99.35		ug/Kg		99	70 - 130
1,3-Dichloropropene, Total	100	110.3		ug/Kg		110	60 - 140
o-Xylene	50.0	50.19		ug/Kg		100	79 - 130
m,p-Xylenes	50.0	49.16		ug/Kg		98	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*118*		*56 - 150*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

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

Lab Sample ID: LCSD 860-62746/4
Matrix: Solid
Analysis Batch: 62746

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	156.9		ug/Kg		63	50 - 150	1	25
Acrylonitrile			500	509.2		ug/Kg		102	50 - 150	4	25
Benzene			50.0	49.09		ug/Kg		98	66 - 142	10	25
Bromodichloromethane			50.0	59.23		ug/Kg		118	78 - 130	9	25
Tribromomethane			50.0	52.63		ug/Kg		105	63 - 136	5	25
Bromomethane			50.0	52.71		ug/Kg		105	60 - 140	8	25
Methyl tert-butyl ether			50.0	54.00		ug/Kg		108	64 - 148	3	25
Carbon tetrachloride			50.0	52.79		ug/Kg		106	63 - 135	9	25
Monochlorobenzene			50.0	48.13		ug/Kg		96	83 - 130	9	25
Chloroform			50.0	51.64		ug/Kg		103	74 - 130	9	25
Chloromethane			50.0	53.72		ug/Kg		107	58 - 130	12	25
1,2-Dibromoethane			50.0	47.82		ug/Kg		96	73 - 130	4	25
1,2-Dichlorobenzene			50.0	50.55		ug/Kg		101	84 - 130	12	25
1,3-Dichlorobenzene			50.0	51.16		ug/Kg		102	84 - 130	13	25
1,4-Dichlorobenzene			50.0	49.13		ug/Kg		98	82 - 130	13	25
Dichlorodifluoromethane			50.0	47.38		ug/Kg		95	54 - 130	13	25
1,1-Dichloroethane			50.0	50.39		ug/Kg		101	73 - 130	9	25
1,2-Dichloroethane			50.0	58.12		ug/Kg		116	70 - 130	8	25
1,1-Dichloroethene			50.0	43.98		ug/Kg		88	68 - 130	10	25
cis-1,2-Dichloroethene			50.0	51.74		ug/Kg		103	72 - 131	9	25
trans-1,2-Dichloroethene			50.0	43.16		ug/Kg		86	63 - 130	9	25
1,2-Dichloropropane			50.0	53.46		ug/Kg		107	75 - 130	9	25
cis-1,3-Dichloropropene			50.0	58.57		ug/Kg		117	74 - 135	9	25
trans-1,3-Dichloropropene			50.0	59.64		ug/Kg		119	73 - 130	5	25
1,1-Dichloropropene			50.0	48.48		ug/Kg		97	72 - 130	9	25
1,4-Dioxane			1000	1016		ug/Kg		102	65 - 135	10	25
Ethylbenzene			50.0	51.82		ug/Kg		104	80 - 130	9	25
Methylene Chloride			50.0	47.46		ug/Kg		95	57 - 134	1	25
Styrene			50.0	56.26		ug/Kg		113	80 - 130	10	25
1,1,2,2-Tetrachloroethane			50.0	47.70		ug/Kg		95	75 - 133	4	25
Tetrachloroethene			50.0	45.44		ug/Kg		91	79 - 130	10	25
Toluene			50.0	47.52		ug/Kg		95	74 - 130	11	25
1,2,4-Trichlorobenzene			50.0	53.43		ug/Kg		107	79 - 130	11	25
1,1,1-Trichloroethane			50.0	53.10		ug/Kg		106	71 - 130	8	25
1,1,2-Trichloroethane			50.0	48.29		ug/Kg		97	75 - 131	5	25
Trichloroethene			50.0	49.17		ug/Kg		98	78 - 130	11	25
Trichlorofluoromethane			50.0	61.41		ug/Kg		123	71 - 148	11	25
Vinyl chloride			50.0	61.47		ug/Kg		123	60 - 130	11	25
Xylenes, Total			100	108.0		ug/Kg		108	70 - 130	8	25
1,3-Dichloropropene, Total			100	118.2		ug/Kg		118	60 - 140	7	25
o-Xylene			50.0	55.01		ug/Kg		110	79 - 130	9	25
m,p-Xylenes			50.0	52.96		ug/Kg		106	78 - 130	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 63953

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 63945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane (P-Dioxane)	0.00250	U	0.0502	0.01134	N1	mg/Kg		23	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*60*	*X*	*63 - 144*

Lab Sample ID: MB 860-63953/8
Matrix: Solid
Analysis Batch: 63953

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			08/08/22 18:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*08/08/22 18:37*	*1*

Lab Sample ID: LCS 860-63953/4
Matrix: Solid
Analysis Batch: 63953

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	0.05198		mg/Kg		104	65 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*

Lab Sample ID: LCSD 860-63953/21
Matrix: Solid
Analysis Batch: 63953

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	0.04876		mg/Kg		98	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-587220/1-A
Matrix: Solid
Analysis Batch: 587520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	65.9	12.0	ug/Kg		08/02/22 12:32	08/04/22 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*88*		*30 - 164*	*08/02/22 12:32*	*08/04/22 12:14*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: LCS 400-587220/2-A
Matrix: Solid
Analysis Batch: 587520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587220

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon			332	295.4		ug/Kg		89	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*100*		*30 - 164*

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 587520

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 587220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Prometon	11.9	U	329	300.3		ug/Kg		91	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*99*		*30 - 164*

Lab Sample ID: 860-30328-1 MSD
Matrix: Solid
Analysis Batch: 587520

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 587220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Prometon	11.9	U	333	321.5		ug/Kg		97	40 - 140	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*104*		*30 - 164*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-62782/1-A
Matrix: Solid
Analysis Batch: 63114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62782

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		07/28/22 12:34	08/01/22 17:28	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Anthracene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-62782/1-A
Matrix: Solid
Analysis Batch: 63114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Chrysene	16.5	U	167	16.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Fluorene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Isophorone	14.5	U	167	14.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Pyrene	14.6	U	167	14.6	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Naphthalene	15.6	U	167	15.6	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Benzidine	12.1	U	333	12.1	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		07/28/22 12:34	08/01/22 17:28	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Atrazine	16.5	U	333	16.5	ug/Kg		07/28/22 12:34	08/01/22 17:28	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		07/28/22 12:34	08/01/22 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*35*		*30 - 115*	*07/28/22 12:34*	*08/01/22 17:28*	*1*
2-Fluorophenol	*38*		*25 - 121*	*07/28/22 12:34*	*08/01/22 17:28*	*1*
2,4,6-Tribromophenol	*28*		*19 - 122*	*07/28/22 12:34*	*08/01/22 17:28*	*1*
Nitrobenzene-d5	*32*		*23 - 129*	*07/28/22 12:34*	*08/01/22 17:28*	*1*
Phenol-d5 (Surr)	*37*		*24 - 113*	*07/28/22 12:34*	*08/01/22 17:28*	*1*
p-Terphenyl-d14 (Surr)	*37*		*18 - 137*	*07/28/22 12:34*	*08/01/22 17:28*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-62782/2-A
Matrix: Solid
Analysis Batch: 62968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	622.4		ug/Kg		47	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	558.3		ug/Kg		42	35 - 135
1-Methylnaphthalene	1330	639.8		ug/Kg		48	38 - 127
bis (2-chloroisopropyl) ether	1330	623.1		ug/Kg		47	25 - 124
2,4,5-Trichlorophenol	1330	585.4		ug/Kg		44	40 - 135
2,4,6-Trichlorophenol	1330	584.7		ug/Kg		44	39 - 139
2,4-Dinitrotoluene	1330	642.2		ug/Kg		48	48 - 131
Dinitrophenols	1330	563.1		ug/Kg		42	19 - 131
2,4-Dichlorophenol	1330	692.0		ug/Kg		52	36 - 135
2,6-Dinitrotoluene	1330	624.0		ug/Kg		47	42 - 136
Dichlorobenzidine, 3,3'-	1330	569.6		ug/Kg		43	35 - 134
4,6-Dinitro-2-methylphenol	1330	603.6		ug/Kg		45	30 - 146
Acenaphthene	1330	604.8		ug/Kg		45	37 - 131
Anthracene	1330	643.6		ug/Kg		48	39 - 139
Acenaphthylene	1330	642.9		ug/Kg		48	39 - 129
Benzo[a]anthracene	1330	618.0		ug/Kg		46	44 - 135
Benzo[b]fluoranthene	1330	574.0		ug/Kg		43	40 - 153
Benzo[k]fluoranthene	1330	616.7		ug/Kg		46	33 - 156
Benzo[g,h,i]perylene	1330	624.8		ug/Kg		47	40 - 153
Benzo[a]pyrene	1330	612.5		ug/Kg		46	43 - 153
Di (2-ethylhexyl)phthalate	1330	670.2		ug/Kg		50	46 - 145
Bis(2-chloroethyl)ether	1330	612.7		ug/Kg		46	33 - 127
Chrysene	1330	598.9		ug/Kg		45	42 - 135
Dibutylphthalate	1330	653.1		ug/Kg		49	43 - 142
Dibenz(a,h)anthracene	1330	635.2		ug/Kg		48	41 - 155
Diethyl phthalate	1330	665.4		ug/Kg		50	45 - 131
Dimethyl phthalate	1330	643.9		ug/Kg		48	43 - 132
Fluoranthene	1330	667.9		ug/Kg		50	41 - 138
Fluorene	1330	636.7		ug/Kg		48	41 - 131
Hexachlorobenzene	1330	588.7		ug/Kg		44	36 - 142
Hexachlorobutadiene	1330	584.8		ug/Kg		44	35 - 129
Hexachlorocyclopentadiene	1330	545.2		ug/Kg		41	16 - 106
Hexachloroethane	1330	626.4		ug/Kg		47	36 - 121
Indeno[1,2,3-cd]pyrene	1330	631.0		ug/Kg		47	39 - 154
Isophorone	1330	656.2		ug/Kg		49	36 - 128
N-Nitrosodi-n-butylamine	1330	754.1		ug/Kg		57	34 - 135
N-Nitrosodiethylamine	1330	668.3		ug/Kg		50	36 - 127
N-Nitrosodiphenylamine	1330	637.6		ug/Kg		48	27 - 155
N-Nitrosopyrrolidine	1330	710.0		ug/Kg		53	38 - 136
Pentachlorobenzene	1330	592.5		ug/Kg		44	38 - 136
Pentachlorophenol	1330	542.8		ug/Kg		41	14 - 148
Phenanthrene	1330	598.1		ug/Kg		45	37 - 139
Pyrene	1330	649.6		ug/Kg		49	42 - 138
Naphthalene	1330	595.7		ug/Kg		45	35 - 128
2-Methylnaphthalene	1330	639.4		ug/Kg		48	36 - 126
Nitrobenzene	1330	609.6		ug/Kg		46	32 - 129
Benzidine	1330	369.2		ug/Kg		28	12 - 112
Phenol	1.33	0.6894		mg/Kg		52	34 - 127

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-62782/2-A
Matrix: Solid
Analysis Batch: 62968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62782

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodimethylamine			1330	600.4		ug/Kg		45	27 - 126		
Atrazine			1330	670.4		ug/Kg		50	18 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*34*		*30 - 115*
2-Fluorophenol	*38*		*25 - 121*
2,4,6-Tribromophenol	*34*		*19 - 122*
Nitrobenzene-d5	*36*		*23 - 129*
Phenol-d5 (Surr)	*41*		*24 - 113*
p-Terphenyl-d14 (Surr)	*38*		*18 - 137*

Lab Sample ID: LCS 860-62782/2-A
Matrix: Solid
Analysis Batch: 63114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62782

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Thiophene, tetrahydro-, 1,1-dioxide			1330	844.5		ug/Kg		63	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*34*		*30 - 115*
2-Fluorophenol	*37*		*25 - 121*
2,4,6-Tribromophenol	*37*		*19 - 122*
Nitrobenzene-d5	*38*		*23 - 129*
Phenol-d5 (Surr)	*38*		*24 - 113*
p-Terphenyl-d14 (Surr)	*37*		*18 - 137*

Lab Sample ID: LCSD 860-62782/3-A
Matrix: Solid
Analysis Batch: 62968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62782

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	585.4		ug/Kg		44	20 - 157	6	30
1,2,4,5-Tetrachlorobenzene			1330	525.0		ug/Kg		39	35 - 135	6	30
1-Methylnaphthalene			1330	593.8		ug/Kg		45	38 - 127	7	30
bis (2-chloroisopropyl) ether			1330	581.7		ug/Kg		44	25 - 124	7	30
2,4,5-Trichlorophenol			1330	559.3		ug/Kg		42	40 - 135	5	30
2,4,6-Trichlorophenol			1330	552.2		ug/Kg		41	39 - 139	6	30
2,4-Dinitrotoluene			1330	607.2	*	ug/Kg		46	48 - 131	6	30
Dinitrophenols			1330	557.5		ug/Kg		42	19 - 131	1	40
2,4-Dichlorophenol			1330	645.1		ug/Kg		48	36 - 135	7	30
2,6-Dinitrotoluene			1330	585.5		ug/Kg		44	42 - 136	6	30
Dichlorobenzidine, 3,3'-			1330	542.6		ug/Kg		41	35 - 134	5	40
4,6-Dinitro-2-methylphenol			1330	581.6		ug/Kg		44	30 - 146	4	40
Acenaphthene			1330	568.3		ug/Kg		43	37 - 131	6	30
Anthracene			1330	605.5		ug/Kg		45	39 - 139	6	30
Acenaphthylene			1330	597.5		ug/Kg		45	39 - 129	7	30
Benzo[a]anthracene			1330	584.6		ug/Kg		44	44 - 135	6	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-62782/3-A
Matrix: Solid
Analysis Batch: 62968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62782

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene			1330	551.6		ug/Kg		41	40 - 153	4	30
Benzo[k]fluoranthene			1330	580.7		ug/Kg		44	33 - 156	6	30
Benzo[g,h,i]perylene			1330	585.4		ug/Kg		44	40 - 153	7	30
Benzo[a]pyrene			1330	595.3		ug/Kg		45	43 - 153	3	30
Di (2-ethylhexyl)phthalate			1330	645.1		ug/Kg		48	46 - 145	4	30
Bis(2-chloroethyl)ether			1330	577.5		ug/Kg		43	33 - 127	6	30
Chrysene			1330	576.4		ug/Kg		43	42 - 135	4	30
Dibutylphthalate			1330	619.4		ug/Kg		46	43 - 142	5	30
Dibenz(a,h)anthracene			1330	608.7		ug/Kg		46	41 - 155	4	30
Diethyl phthalate			1330	623.4		ug/Kg		47	45 - 131	7	30
Dimethyl phthalate			1330	601.9		ug/Kg		45	43 - 132	7	30
Fluoranthene			1330	620.6		ug/Kg		47	41 - 138	7	30
Fluorene			1330	596.6		ug/Kg		45	41 - 131	7	30
Hexachlorobenzene			1330	559.1		ug/Kg		42	36 - 142	5	30
Hexachlorobutadiene			1330	546.2		ug/Kg		41	35 - 129	7	30
Hexachlorocyclopentadiene			1330	512.8		ug/Kg		38	16 - 106	6	30
Hexachloroethane			1330	581.3		ug/Kg		44	36 - 121	7	30
Indeno[1,2,3-cd]pyrene			1330	608.5		ug/Kg		46	39 - 154	4	30
Isophorone			1330	609.3		ug/Kg		46	36 - 128	7	30
N-Nitrosodi-n-butylamine			1330	707.5		ug/Kg		53	34 - 135	6	30
N-Nitrosodiethylamine			1330	634.6		ug/Kg		48	36 - 127	5	30
N-Nitrosodiphenylamine			1330	603.6		ug/Kg		45	27 - 155	5	30
N-Nitrosopyrrolidine			1330	681.8		ug/Kg		51	38 - 136	4	30
Pentachlorobenzene			1330	550.3		ug/Kg		41	38 - 136	7	30
Pentachlorophenol			1330	523.7		ug/Kg		39	14 - 148	4	40
Phenanthrene			1330	557.1		ug/Kg		42	37 - 139	7	30
Pyrene			1330	621.9		ug/Kg		47	42 - 138	4	30
Naphthalene			1330	549.9		ug/Kg		41	35 - 128	8	30
2-Methylnaphthalene			1330	593.3		ug/Kg		44	36 - 126	7	30
Nitrobenzene			1330	560.7		ug/Kg		42	32 - 129	8	30
Benzidine			1330	359.7		ug/Kg		27	12 - 112	3	40
Phenol			1.33	0.6525		mg/Kg		49	34 - 127	5	40
N-Nitrosodimethylamine			1330	565.7		ug/Kg		42	27 - 126	6	30
Atrazine			1330	632.2		ug/Kg		47	18 - 134	6	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*32*		*30 - 115*
2-Fluorophenol	*37*		*25 - 121*
2,4,6-Tribromophenol	*33*		*19 - 122*
Nitrobenzene-d5	*34*		*23 - 129*
Phenol-d5 (Surr)	*39*		*24 - 113*
p-Terphenyl-d14 (Surr)	*37*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-62782/3-A
Matrix: Solid
Analysis Batch: 63114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62782

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thiophene, tetrahydro-, 1,1-dioxide			1330	813.3		ug/Kg		61	30 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*32*		*30 - 115*
2-Fluorophenol	*35*		*25 - 121*
2,4,6-Tribromophenol	*35*		*19 - 122*
Nitrobenzene-d5	*31*		*23 - 129*
Phenol-d5 (Surr)	*36*		*24 - 113*
p-Terphenyl-d14 (Surr)	*37*		*18 - 137*

Lab Sample ID: 860-30328-6 MS
Matrix: Solid
Analysis Batch: 63292

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 62782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	16.9	U	1310	521.4		ug/Kg		40	20 - 157
1,2,4,5-Tetrachlorobenzene	16.0	U	1310	507.8		ug/Kg		39	35 - 135
1-Methylnaphthalene	25.9	U	1310	545.0		ug/Kg		42	38 - 127
bis (2-chloroisopropyl) ether	17.2	U	1310	486.6		ug/Kg		37	25 - 124
2,4,5-Trichlorophenol	18.5	U	1310	503.2	N1	ug/Kg		39	40 - 135
2,4,6-Trichlorophenol	15.3	U	1310	506.1		ug/Kg		39	39 - 139
2,4-Dinitrotoluene	12.3	U *	1310	543.8	N1 *	ug/Kg		42	48 - 131
Dinitrophenols	23.5	U	1310	441.1		ug/Kg		34	19 - 131
2,4-Dichlorophenol	16.9	U	1310	579.6		ug/Kg		44	36 - 135
2,6-Dinitrotoluene	22.6	U	1310	535.8	N1	ug/Kg		41	42 - 136
Dichlorobenzidine, 3,3'-	14.9	U	1310	514.4		ug/Kg		39	35 - 134
4,6-Dinitro-2-methylphenol	12.3	U	1310	514.2		ug/Kg		39	30 - 146
Acenaphthene	15.0	U	1310	524.1		ug/Kg		40	37 - 131
Anthracene	13.4	U	1310	567.8		ug/Kg		43	39 - 139
Acenaphthylene	14.3	U	1310	559.7		ug/Kg		43	39 - 129
Benzo[a]anthracene	13.6	U *	1310	530.4	N1 *	ug/Kg		41	44 - 135
Benzo[b]fluoranthene	12.2	U *	1310	481.1	N1 *	ug/Kg		37	40 - 153
Benzo[k]fluoranthene	18.8	U	1310	548.6		ug/Kg		42	33 - 156
Benzo[g,h,i]perylene	14.9	U	1310	545.6		ug/Kg		42	40 - 153
Benzo[a]pyrene	16.7	U	1310	527.1	N1	ug/Kg		40	43 - 153
Di (2-ethylhexyl)phthalate	162	U *	1310	536.4	N1 *	ug/Kg		41	46 - 145
Bis(2-chloroethyl)ether	14.7	U	1310	474.2		ug/Kg		36	33 - 127
Chrysene	16.0	U	1310	535.2	N1	ug/Kg		41	42 - 135
Dibutylphthalate	15.6	U	1310	543.5	N1	ug/Kg		42	43 - 142
Dibenz(a,h)anthracene	12.3	U	1310	530.9		ug/Kg		41	41 - 155
Diethyl phthalate	14.8	U	1310	562.5	N1	ug/Kg		43	45 - 131
Dimethyl phthalate	15.4	U	1310	550.7	N1	ug/Kg		42	43 - 132
Fluoranthene	14.2	U	1310	577.4		ug/Kg		44	41 - 138
Fluorene	13.4	U	1310	555.2		ug/Kg		43	41 - 131
Hexachlorobenzene	15.7	U	1310	525.8		ug/Kg		40	36 - 142
Hexachlorobutadiene	13.4	U	1310	522.4		ug/Kg		40	35 - 129
Hexachlorocyclopentadiene	14.7	U	1310	442.5		ug/Kg		34	16 - 106

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30328-6 MS
Matrix: Solid
Analysis Batch: 63292

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 62782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	16.8	U	1310	512.8		ug/Kg		39	36 - 121
Indeno[1,2,3-cd]pyrene	13.0	U	1310	547.6		ug/Kg		42	39 - 154
Isophorone	14.1	U	1310	525.0		ug/Kg		40	36 - 128
N-Nitrosodi-n-butylamine	24.5	U	1310	593.7		ug/Kg		45	34 - 135
N-Nitrosodiethylamine	21.3	U	1310	517.8		ug/Kg		40	36 - 127
N-Nitrosodiphenylamine	18.1	U	1310	566.1		ug/Kg		43	27 - 155
N-Nitrosopyrrolidine	13.7	U	1310	560.2		ug/Kg		43	38 - 136
Pentachlorobenzene	15.4	U	1310	525.6		ug/Kg		40	38 - 136
Pentachlorophenol	11.8	U	1310	476.2		ug/Kg		36	14 - 148
Phenanthrene	16.1	U	1310	527.1		ug/Kg		40	37 - 139
Pyrene	14.2	U	1310	561.3		ug/Kg		43	42 - 138
Naphthalene	15.1	U	1310	505.6		ug/Kg		39	35 - 128
2-Methylnaphthalene	43.8	U	1310	538.7		ug/Kg		41	36 - 126
Nitrobenzene	17.9	U	1310	486.9		ug/Kg		37	32 - 129
Benzidine	11.7	U	1310	310.1	J	ug/Kg		24	12 - 112
Phenol	0.0145	U	1.31	0.5351		mg/Kg		41	34 - 127
N-Nitrosodimethylamine	16.2	U	1310	448.3		ug/Kg		34	27 - 126
Atrazine	16.0	U	1310	592.7		ug/Kg		45	18 - 134
Thiophene, tetrahydro-, 1,1-dioxide	323	U	1310	657.5		ug/Kg		50	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*30*		*30 - 115*
2-Fluorophenol	*31*		*25 - 121*
2,4,6-Tribromophenol	*31*		*19 - 122*
Nitrobenzene-d5	*30*		*23 - 129*
Phenol-d5 (Surr)	*32*		*24 - 113*
p-Terphenyl-d14 (Surr)	*33*		*18 - 137*

Lab Sample ID: 860-30328-6 MSD
Matrix: Solid
Analysis Batch: 63292

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 62782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)	16.9	U	1290	478.5		ug/Kg		37	20 - 157	9	30
1,2,4,5-Tetrachlorobenzene	16.0	U	1290	477.7		ug/Kg		37	35 - 135	6	30
1-Methylnaphthalene	25.9	U	1290	503.3		ug/Kg		39	38 - 127	8	30
bis (2-chloroisopropyl) ether	17.2	U	1290	464.2		ug/Kg		36	25 - 124	5	30
2,4,5-Trichlorophenol	18.5	U	1290	472.6	N1	ug/Kg		37	40 - 135	6	30
2,4,6-Trichlorophenol	15.3	U	1290	470.3	N1	ug/Kg		36	39 - 139	7	30
2,4-Dinitrotoluene	12.3	U *	1290	492.9	N1 *	ug/Kg		38	48 - 131	10	30
Dinitrophenols	23.5	U	1290	408.2		ug/Kg		32	19 - 131	8	40
2,4-Dichlorophenol	16.9	U	1290	529.0		ug/Kg		41	36 - 135	9	30
2,6-Dinitrotoluene	22.6	U	1290	488.0	N1	ug/Kg		38	42 - 136	9	30
Dichlorobenzidine, 3,3'-	14.9	U	1290	482.2		ug/Kg		37	35 - 134	6	40
4,6-Dinitro-2-methylphenol	12.3	U	1290	476.6		ug/Kg		37	30 - 146	8	40
Acenaphthene	15.0	U	1290	481.3		ug/Kg		37	37 - 131	9	30
Anthracene	13.4	U	1290	518.9		ug/Kg		40	39 - 139	9	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30328-6 MSD
Matrix: Solid
Analysis Batch: 63292

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 62782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthylene	14.3	U	1290	513.6		ug/Kg		40	39 - 129	9	30
Benzo[a]anthracene	13.6	U *	1290	501.1	N1 *	ug/Kg		39	44 - 135	6	30
Benzo[b]fluoranthene	12.2	U *	1290	452.3	N1 *	ug/Kg		35	40 - 153	6	30
Benzo[k]fluoranthene	18.8	U	1290	493.6		ug/Kg		38	33 - 156	11	30
Benzo[g,h,i]perylene	14.9	U	1290	519.3		ug/Kg		40	40 - 153	5	30
Benzo[a]pyrene	16.7	U	1290	495.4	N1	ug/Kg		38	43 - 153	6	30
Di (2-ethylhexyl)phthalate	162	U *	1290	516.7	N1 *	ug/Kg		40	46 - 145	4	30
Bis(2-chloroethyl)ether	14.7	U	1290	502.1		ug/Kg		39	33 - 127	6	30
Chrysene	16.0	U	1290	510.4	N1	ug/Kg		39	42 - 135	5	30
Dibutylphthalate	15.6	U	1290	504.7	N1	ug/Kg		39	43 - 142	7	30
Dibenz(a,h)anthracene	12.3	U	1290	531.2		ug/Kg		41	41 - 155	0	30
Diethyl phthalate	14.8	U	1290	512.4	N1	ug/Kg		40	45 - 131	9	30
Dimethyl phthalate	15.4	U	1290	499.5	N1	ug/Kg		39	43 - 132	10	30
Fluoranthene	14.2	U	1290	535.1		ug/Kg		41	41 - 138	8	30
Fluorene	13.4	U	1290	507.3	N1	ug/Kg		39	41 - 131	9	30
Hexachlorobenzene	15.7	U	1290	488.6		ug/Kg		38	36 - 142	7	30
Hexachlorobutadiene	13.4	U	1290	501.7		ug/Kg		39	35 - 129	4	30
Hexachlorocyclopentadiene	14.7	U	1290	423.2		ug/Kg		33	16 - 106	4	30
Hexachloroethane	16.8	U	1290	496.6		ug/Kg		38	36 - 121	3	30
Indeno[1,2,3-cd]pyrene	13.0	U	1290	514.2		ug/Kg		40	39 - 154	6	30
Isophorone	14.1	U	1290	490.8		ug/Kg		38	36 - 128	7	30
N-Nitrosodi-n-butylamine	24.5	U	1290	548.4		ug/Kg		42	34 - 135	8	30
N-Nitrosodiethylamine	21.3	U	1290	503.9		ug/Kg		39	36 - 127	3	30
N-Nitrosodiphenylamine	18.1	U	1290	511.5		ug/Kg		40	27 - 155	10	30
N-Nitrosopyrrolidine	13.7	U	1290	506.2		ug/Kg		39	38 - 136	10	30
Pentachlorobenzene	15.4	U	1290	485.2	N1	ug/Kg		37	38 - 136	8	30
Pentachlorophenol	11.8	U	1290	445.0		ug/Kg		34	14 - 148	7	40
Phenanthrene	16.1	U	1290	483.0		ug/Kg		37	37 - 139	9	30
Pyrene	14.2	U	1290	516.8	N1	ug/Kg		40	42 - 138	8	30
Naphthalene	15.1	U	1290	479.5		ug/Kg		37	35 - 128	5	30
2-Methylnaphthalene	43.8	U	1290	508.0		ug/Kg		39	36 - 126	6	30
Nitrobenzene	17.9	U	1290	455.8		ug/Kg		35	32 - 129	7	30
Benzidine	11.7	U	1290	304.2	J	ug/Kg		24	12 - 112	2	40
Phenol	0.0145	U	1.29	0.5029		mg/Kg		39	34 - 127	6	40
N-Nitrosodimethylamine	16.2	U	1290	449.3		ug/Kg		35	27 - 126	0	30
Atrazine	16.0	U	1290	549.0		ug/Kg		42	18 - 134	8	40
Thiophene, tetrahydro-, 1,1-dioxide	323	U	1290	603.8		ug/Kg		47		9	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*30*		*30 - 115*
2-Fluorophenol	*31*		*25 - 121*
2,4,6-Tribromophenol	*29*		*19 - 122*
Nitrobenzene-d5	*29*		*23 - 129*
Phenol-d5 (Surr)	*32*		*24 - 113*
p-Terphenyl-d14 (Surr)	*31*		*18 - 137*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

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

Lab Sample ID: MB 860-64061/1-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*08/08/22 17:02*	*08/08/22 18:41*	*1*
o-Terphenyl (Surr)	*107*		*65 - 130*	*08/08/22 17:02*	*08/08/22 18:41*	*1*

Lab Sample ID: LCS 860-64061/2-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	1218		mg/Kg		122	70 - 135
Diesel Range Organics (Over C10-C28)	1000	1131		mg/Kg		113	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*65 - 130*
o-Terphenyl (Surr)	*113*		*65 - 130*

Lab Sample ID: LCSD 860-64061/3-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	1334		mg/Kg		134	70 - 135	9	35
Diesel Range Organics (Over C10-C28)	1000	1186		mg/Kg		119	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*65 - 130*
o-Terphenyl (Surr)	*116*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-62820/1-A
Matrix: Solid
Analysis Batch: 63116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		07/28/22 14:27	08/01/22 16:10	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-62820/1-A
Matrix: Solid
Analysis Batch: 63116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Endrin	0.291	U	0.833	0.291	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		07/28/22 14:27	08/01/22 16:10	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		07/28/22 14:27	08/01/22 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 135*	*07/28/22 14:27*	*08/01/22 16:10*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*25 - 143*	*07/28/22 14:27*	*08/01/22 16:10*	*1*

Lab Sample ID: LCS 860-62820/2-A
Matrix: Solid
Analysis Batch: 63116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	16.7	14.97		ug/Kg		90	13 - 192
Aldrin	16.7	14.50		ug/Kg		87	30 - 152
Hexachlorocyclohexane, alpha-	16.7	14.20		ug/Kg		85	29 - 160
Hexachlorocyclohexane, beta-	16.7	13.59		ug/Kg		82	30 - 155
Hexachlorocyclohexane, delta-	16.7	13.75		ug/Kg		83	20 - 161
Dieldrin	16.7	16.01		ug/Kg		96	33 - 153
Endosulfan I	16.7	15.12		ug/Kg		91	30 - 151
Endosulfan II	16.7	16.27		ug/Kg		98	27 - 153
Endosulfan sulfate	16.7	14.26		ug/Kg		86	15 - 170
Endrin	16.7	12.12		ug/Kg		73	25 - 162
Endrin aldehyde	16.7	17.28		ug/Kg		104	49 - 117
Hexachlorocyclohexane, gamma-	16.7	14.01		ug/Kg		84	30 - 158
Heptachlor	16.7	13.99		ug/Kg		84	29 - 163
Heptachlor epoxide	16.7	14.68		ug/Kg		88	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*84*		*25 - 143*

Lab Sample ID: LCSD 860-62820/3-A
Matrix: Solid
Analysis Batch: 63116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62820

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	16.7	13.91		ug/Kg		83	13 - 192	7	25

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-62820/3-A
Matrix: Solid
Analysis Batch: 63116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			16.7	13.79		ug/Kg		83	30 - 152	5	25
Hexachlorocyclohexane, alpha-			16.7	13.61		ug/Kg		82	29 - 160	4	25
Hexachlorocyclohexane, beta-			16.7	13.06		ug/Kg		78	30 - 155	4	25
Hexachlorocyclohexane, delta-			16.7	13.07		ug/Kg		78	20 - 161	5	25
Dieldrin			16.7	15.18		ug/Kg		91	33 - 153	5	25
Endosulfan I			16.7	14.34		ug/Kg		86	30 - 151	5	25
Endosulfan II			16.7	15.07		ug/Kg		90	27 - 153	8	25
Endosulfan sulfate			16.7	13.78		ug/Kg		83	15 - 170	3	25
Endrin			16.7	11.39		ug/Kg		68	25 - 162	6	25
Endrin aldehyde			16.7	16.67		ug/Kg		100	49 - 117	4	25
Hexachlorocyclohexane, gamma-			16.7	13.37		ug/Kg		80	30 - 158	5	25
Heptachlor			16.7	13.36		ug/Kg		80	29 - 163	5	25
Heptachlor epoxide			16.7	13.89		ug/Kg		83	30 - 150	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 135*
DCB Decachlorobiphenyl (Surr)	*82*		*25 - 143*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-62820/1-A
Matrix: Solid
Analysis Batch: 63099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		07/28/22 14:27	08/01/22 12:09	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		07/28/22 14:27	08/01/22 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*35 - 140*	*07/28/22 14:27*	*08/01/22 12:09*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*37 - 142*	*07/28/22 14:27*	*08/01/22 12:09*	*1*

Lab Sample ID: LCS 860-62820/15-A
Matrix: Solid
Analysis Batch: 63099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016			0.167	0.1450		mg/Kg		87	27 - 121
Aroclor 1260			0.167	0.1448		mg/Kg		87	27 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*35 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-62820/15-A
Matrix: Solid
Analysis Batch: 63099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62820

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Lab Sample ID: LCSD 860-62820/16-A
Matrix: Solid
Analysis Batch: 63099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.167	0.1498		mg/Kg		90	27 - 121	3	20
Aroclor 1260			0.167	0.1537		mg/Kg		92	27 - 139	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	78		35 - 140
DCB Decachlorobiphenyl (Surr)	80		37 - 142

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-582759/1-A
Matrix: Solid
Analysis Batch: 582877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582759

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		08/02/22 17:50	08/03/22 15:18	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/02/22 17:50	08/03/22 15:18	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/02/22 17:50	08/03/22 15:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	106		83 - 122	08/02/22 17:50	08/03/22 15:18	1

Lab Sample ID: LCS 280-582759/2-A
Matrix: Solid
Analysis Batch: 582877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582759

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	0.9591		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9899		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene			1.00	1.029		mg/Kg		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	103		83 - 122

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-30328-6 MS — **Client Sample ID: Cell21-Square-40-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582877 — **Prep Batch: 582759**

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	0.0211	U	0.938	0.8910		mg/Kg		95	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.938	0.8973		mg/Kg		96	80 - 124
2,4,6-Trinitrotoluene	0.0285	U	0.938	0.9651		mg/Kg		103	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

Lab Sample ID: 860-30328-6 MSD — **Client Sample ID: Cell21-Square-40-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582877 — **Prep Batch: 582759**

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	0.0211	U	0.970	0.9218		mg/Kg		95	80 - 120	3	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.970	0.9051		mg/Kg		93	80 - 124	1	30
2,4,6-Trinitrotoluene	0.0285	U	0.970	0.9712		mg/Kg		100	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*100*		*83 - 122*

Lab Sample ID: 860-30328-6 DU — **Client Sample ID: Cell21-Square-40-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582877 — **Prep Batch: 582759**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0211	U	0.0223	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.0423	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0285	U	0.0302	U	mg/Kg		NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Lab Sample ID: 860-30328-6 TRL — **Client Sample ID: Cell21-Square-40-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582877 — **Prep Batch: 582759**

Analyte	Sample Result	Sample Qualifier	TRL Result	TRL Qualifier	Unit	D	RSD	RSD Limit
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	0.0211	U	0.0222	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0399	U	0.0421	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0285	U	0.0300	U	mg/Kg		NC	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 860-30328-6 TRL
Matrix: Solid
Analysis Batch: 582877

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 582759

Surrogate	TRL %Recovery	TRL Qualifier	Limits
1,2-Dinitrobenzene	106		83 - 122

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-66062/1-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.53	U	9.98	3.53	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrate as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Fluoride	0.998	U	4.99	0.998	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrite as N	0.0499	U	0.998	0.0499	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrate Nitrite as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Sulfate	4.31	U	9.98	4.31	mg/Kg		08/22/22 14:59	08/23/22 01:58	1

Lab Sample ID: LCS 860-66062/2-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	99.4	98.04		mg/Kg		99	80 - 120
Nitrate as N	99.4	99.96		mg/Kg		101	80 - 120
Fluoride	99.4	105.8		mg/Kg		106	80 - 120
Nitrite as N	49.7	50.38		mg/Kg		101	80 - 120
Nitrate Nitrite as N	149	150.3		mg/Kg		101	80 - 120
Sulfate	99.4	95.38		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 860-66062/3-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	99.8	98.49		mg/Kg		99	80 - 120	0	20
Nitrate as N	99.8	100.1		mg/Kg		100	80 - 120	0	20
Fluoride	99.8	106.8		mg/Kg		107	80 - 120	1	20
Nitrite as N	49.9	50.77		mg/Kg		102	80 - 120	1	20
Nitrate Nitrite as N	150	150.9		mg/Kg		101	80 - 120	0	20
Sulfate	99.8	95.59		mg/Kg		96	80 - 120	0	20

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.8		99.6	104.2		mg/Kg		90	80 - 120
Nitrate as N	10.7		99.6	108.8		mg/Kg		99	80 - 120
Fluoride	2.47	J	99.6	110.2		mg/Kg		108	80 - 120
Nitrite as N	0.0495	U	24.9	26.50		mg/Kg		106	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 66119

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	10.7		125	135.3		mg/Kg		100	80 - 120
Sulfate	180		99.6	320.4	N1	mg/Kg		141	80 - 120

Lab Sample ID: 860-30328-1 MSD
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.8		99.6	104.5		mg/Kg		90	80 - 120	0	20
Nitrate as N	10.7		99.6	108.9		mg/Kg		99	80 - 120	0	15
Fluoride	2.47	J	99.6	109.8		mg/Kg		108	80 - 120	0	20
Nitrite as N	0.0495	U	24.9	26.62		mg/Kg		107	80 - 120	0	15
Nitrate Nitrite as N	10.7		125	135.5		mg/Kg		100	80 - 120	0	15
Sulfate	180		99.6	322.0	N1	mg/Kg		143	80 - 120	1	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-582514/12
Matrix: Solid
Analysis Batch: 582514

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.0500	0.05392		ug/L		108	70 - 130

Lab Sample ID: MB 280-582681/1-A
Matrix: Solid
Analysis Batch: 582885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/02/22 14:51	08/03/22 12:13	1

Lab Sample ID: LCS 280-582681/2-A
Matrix: Solid
Analysis Batch: 582885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.500	0.5309		ug/Kg		106	80 - 120

Lab Sample ID: 860-30328-4 MS
Matrix: Solid
Analysis Batch: 582885

Client Sample ID: Cell20-Square-80-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 582681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	0.146	J	0.466	0.5484		ug/Kg		86	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: 860-30328-4 MSD — **Client Sample ID: Cell20-Square-80-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 582885 — **Prep Batch: 582681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	0.146	J	0.466	0.5410		ug/Kg		85	70 - 130	1	15

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: MB 280-582854/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 584624 — **Prep Batch: 582854**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		08/03/22 13:27	08/20/22 08:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/03/22 13:27	08/20/22 08:53	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/03/22 13:27	08/20/22 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*08/03/22 13:27*	*08/20/22 08:53*	*1*
13C8 PFOS	*105*		*70 - 130*	*08/03/22 13:27*	*08/20/22 08:53*	*1*

Lab Sample ID: LCS 280-582854/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 584624 — **Prep Batch: 582854**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	18.9	18.00		ug/Kg		95	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.12		ug/Kg		94	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	16.77		ug/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: 860-30328-5 MS — **Client Sample ID: Cell21-Square-20-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 584624 — **Prep Batch: 582854**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.221	U	18.5	17.73		ug/Kg		96	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.268	U	17.9	15.93		ug/Kg		89	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.134	U	18.2	16.52		ug/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOA	*103*		*57 - 153*
13C8 PFOS	*103*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 860-30328-5 MSD
Matrix: Solid
Analysis Batch: 584624

Client Sample ID: Cell21-Square-20-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 582854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.221	U	17.9	16.56		ug/Kg		92	70 - 131	7	30
Perfluorohexanesulfonic acid (PFHxS)	0.268	U	17.3	15.22		ug/Kg		88	70 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	0.134	U	17.6	16.31		ug/Kg		92	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 PFOA	*99*		*57 - 153*
13C8 PFOS	*106*		*70 - 130*

Lab Sample ID: DLCK 280-584623/13
Matrix: Solid
Analysis Batch: 584623

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

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorooctanoic acid (PFOA)			0.472	0.490	U	ug/L		101	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4863	J	ug/L		107	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		107	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*101*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-66279/1-A
Matrix: Solid
Analysis Batch: 66478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0153	U	0.192	0.0153	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Arsenic	0.0593	U	0.385	0.0593	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Barium	0.0334	U	0.385	0.0334	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Beryllium	0.0178	U	0.192	0.0178	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Cadmium	0.0112	U	0.192	0.0112	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Chromium	0.0261	U	0.385	0.0261	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Copper	0.0251	U	0.385	0.0251	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Iron	0.225	U	1.92	0.225	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Manganese	0.0245	U	0.192	0.0245	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Lead	0.0186	U	0.192	0.0186	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Antimony	0.0114	U	0.192	0.0114	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Selenium	0.0477	U	0.192	0.0477	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Thallium	0.0230	U	0.192	0.0230	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Uranium	0.00575	U	0.0962	0.00575	mg/Kg		08/23/22 19:04	08/24/22 17:57	1
Zinc	0.0426	U	0.385	0.0426	mg/Kg		08/23/22 19:04	08/24/22 17:57	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-66279/2-A
Matrix: Solid
Analysis Batch: 66478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver			5.00	4.639		mg/Kg		93	80 - 120		
Arsenic			10.0	10.19		mg/Kg		102	80 - 120		
Barium			10.0	10.05		mg/Kg		100	80 - 120		
Beryllium			10.0	10.25		mg/Kg		102	80 - 120		
Cadmium			10.0	10.17		mg/Kg		102	80 - 120		
Chromium			10.0	10.07		mg/Kg		101	80 - 120		
Copper			10.0	9.998		mg/Kg		100	80 - 120		
Iron			50.0	50.51		mg/Kg		101	80 - 120		
Manganese			10.0	10.21		mg/Kg		102	80 - 120		
Lead			10.0	10.05		mg/Kg		101	80 - 120		
Antimony			10.0	9.833		mg/Kg		98	80 - 120		
Selenium			10.0	10.26		mg/Kg		103	80 - 120		
Thallium			10.0	10.01		mg/Kg		100	80 - 120		
Uranium			2.50	2.490		mg/Kg		100	80 - 120		
Zinc			10.0	10.43		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 860-66279/3-A
Matrix: Solid
Analysis Batch: 66478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66279

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver			5.00	4.426		mg/Kg		89	80 - 120	5	20
Arsenic			10.0	10.13		mg/Kg		101	80 - 120	1	20
Barium			10.0	10.06		mg/Kg		101	80 - 120	0	20
Beryllium			10.0	10.29		mg/Kg		103	80 - 120	0	20
Cadmium			10.0	10.22		mg/Kg		102	80 - 120	1	20
Chromium			10.0	10.11		mg/Kg		101	80 - 120	0	20
Copper			10.0	10.06		mg/Kg		101	80 - 120	1	20
Iron			50.0	50.04		mg/Kg		100	80 - 120	1	20
Manganese			10.0	10.12		mg/Kg		101	80 - 120	1	20
Lead			10.0	10.04		mg/Kg		100	80 - 120	0	20
Antimony			10.0	10.20		mg/Kg		102	80 - 120	4	20
Selenium			10.0	10.13		mg/Kg		101	80 - 120	1	20
Thallium			10.0	10.02		mg/Kg		100	80 - 120	0	20
Uranium			2.50	2.495		mg/Kg		100	80 - 120	0	20
Zinc			10.0	10.35		mg/Kg		103	80 - 120	1	20

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 66478

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 66279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver	0.137	U	4.31	4.309		mg/Kg		100	75 - 125		
Arsenic	2.22	J	8.62	10.93		mg/Kg		101	75 - 125		
Barium	278		8.62	314.9	4	mg/Kg		424	75 - 125		
Beryllium	0.342	J	8.62	8.088		mg/Kg		90	75 - 125		
Cadmium	0.119	J	8.62	8.409		mg/Kg		96	75 - 125		
Chromium	2.46	J	8.62	10.72		mg/Kg		96	75 - 125		
Copper	1.33	J	8.62	9.625		mg/Kg		96	75 - 125		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-30328-1 MS — **Client Sample ID: Cell20-Square-60-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66478 — **Prep Batch: 66279**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1760		43.1	2051	4	mg/Kg		686	75 - 125
Manganese	18.7		8.62	30.12	N1	mg/Kg		132	75 - 125
Lead	1.21	J	8.62	9.592		mg/Kg		97	75 - 125
Antimony	3.92		8.62	8.416	N1	mg/Kg		52	75 - 125
Selenium	0.428	U	8.62	8.553		mg/Kg		99	75 - 125
Thallium	0.206	U	8.62	8.328		mg/Kg		97	75 - 125
Uranium	0.353	J	2.16	2.573		mg/Kg		103	75 - 125
Zinc	13.3		8.62	15.27	N1	mg/Kg		23	75 - 125

Lab Sample ID: 860-30328-1 MSD — **Client Sample ID: Cell20-Square-60-S-3-4-220726**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66478 — **Prep Batch: 66279**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.137	U	4.31	4.058		mg/Kg		94	75 - 125	6	20
Arsenic	2.22	J	8.62	10.16		mg/Kg		92	75 - 125	7	20
Barium	278		8.62	361.2	4	mg/Kg		961	75 - 125	14	20
Beryllium	0.342	J	8.62	7.572		mg/Kg		84	75 - 125	7	20
Cadmium	0.119	J	8.62	7.792		mg/Kg		89	75 - 125	8	20
Chromium	2.46	J	8.62	9.536		mg/Kg		82	75 - 125	12	20
Copper	1.33	J	8.62	8.956		mg/Kg		88	75 - 125	7	20
Iron	1760		43.1	1757	4	mg/Kg		3	75 - 125	15	20
Manganese	18.7		8.62	25.97		mg/Kg		84	75 - 125	15	20
Lead	1.21	J	8.62	8.882		mg/Kg		89	75 - 125	8	20
Antimony	3.92		8.62	8.235	N1	mg/Kg		50	75 - 125	2	20
Selenium	0.428	U	8.62	7.672		mg/Kg		89	75 - 125	11	20
Thallium	0.206	U	8.62	7.778		mg/Kg		90	75 - 125	7	20
Uranium	0.353	J	2.16	2.368		mg/Kg		94	75 - 125	8	20
Zinc	13.3		8.62	14.76	N1	mg/Kg		17	75 - 125	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-65730/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65890 — **Prep Batch: 65730**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00861	U	0.0192	0.00861	mg/Kg		08/19/22 08:59	08/19/22 16:13	1

Lab Sample ID: LCS 860-65730/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65890 — **Prep Batch: 65730**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.185	0.1835		mg/Kg		99	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 860-65730/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65890 — **Prep Batch: 65730**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.185	0.1804		mg/Kg		97	80 - 120	2	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-64199/32-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		08/09/22 13:09	08/09/22 16:29	1

Lab Sample ID: MB 860-64199/4-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		08/09/22 13:09	08/09/22 15:44	1

Lab Sample ID: LCS 860-64199/33-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total			100	101.5		ug/Kg		102	90 - 110

Lab Sample ID: LCS 860-64199/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total			100	100.8		ug/Kg		101	90 - 110

Lab Sample ID: LCSD 860-64199/34-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			100	100.3		ug/Kg		100	90 - 110	1	20

Lab Sample ID: LLCS 860-64199/6-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 64278 — **Prep Batch: 64199**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total			5.00	4.246	J	ug/Kg		85	

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: 860-30328-1 MS
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 64199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	37.5	J	2410	2201		ug/Kg		90	90 - 110

Lab Sample ID: 860-30328-1 MSD
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Cell20-Square-60-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 64199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	37.5	J	2410	2235		ug/Kg		91	90 - 110	2	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-65803/1-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:34	1

Lab Sample ID: LCS 860-65803/2-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	1.00	0.9870		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 860-65803/3-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	1.00	1.015		mg/Kg		102	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-65273/1
Matrix: Solid
Analysis Batch: 65273

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			08/16/22 16:17	1

Lab Sample ID: LCS 860-65273/2
Matrix: Solid
Analysis Batch: 65273

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	1002		mg/L		100	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-65273/3
Matrix: Solid
Analysis Batch: 65273

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	989.0		mg/L		99	80 - 120	1	10

Lab Sample ID: LB 860-64070/1-A
Matrix: Solid
Analysis Batch: 65273

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	53.50		5.00	5.00	mg/L			08/16/22 16:17	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-576043/1-A
Matrix: Solid
Analysis Batch: 579206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576043

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1044	U	0.0907	0.0914	1.00	0.138	pCi/g	08/01/22 12:40	08/24/22 13:46	1
Radium-228	-0.1010	U	0.138	0.138		0.268	pCi/g	08/01/22 12:40	08/24/22 13:46	1
Combined Radium 226 + 228	0.003385	U	0.165	0.166		0.268	pCi/g	08/01/22 12:40	08/24/22 13:46	1

Lab Sample ID: LCS 160-576043/2-A
Matrix: Solid
Analysis Batch: 579205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576043

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	96.2	97.25		11.4		1.11	pCi/g	101	75 - 125
Cesium-137	25.7	28.47		2.99		0.248	pCi/g	111	75 - 125
Cobalt-60	7.58	8.333		0.894		0.111	pCi/g	110	75 - 125

Lab Sample ID: 860-30328-6 DU
Matrix: Solid
Analysis Batch: 579208

Client Sample ID: Cell21-Square-40-S-3-4-220726
Prep Type: Total/NA
Prep Batch: 576043

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.866		1.042		0.246	1.00	0.130	pCi/g	0.43	1
Radium-228	0.290		0.1420	U	0.223		0.327	pCi/g	0.39	1
Combined Radium 226 + 228	1.16		1.184		0.332		0.327	pCi/g	0.05	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

GC/MS VOA

Analysis Batch: 62746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8260C	62831
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8260C	62831
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8260C	62831
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8260C	62831
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8260C	62831
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8260C	62831
MB 860-62746/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-62746/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-62746/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 62831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	5030C	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	5030C	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	5030C	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	5030C	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	5030C	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	5030C	

Prep Batch: 63945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	5035	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	5035	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	5035	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	5035	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	5035	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	5035	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	5035	

Analysis Batch: 63953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8260D SIM	63945
MB 860-63953/8	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-63953/4	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-63953/21	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8260D SIM	63945

GC/MS Semi VOA

Prep Batch: 62782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	3550C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

GC/MS Semi VOA (Continued)

Prep Batch: 62782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3550C	
MB 860-62782/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-62782/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-62782/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3550C	

Analysis Batch: 62968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-62782/2-A	Lab Control Sample	Total/NA	Solid	8270D	62782
LCSD 860-62782/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	62782

Analysis Batch: 63114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8270D	62782
MB 860-62782/1-A	Method Blank	Total/NA	Solid	8270D	62782
LCS 860-62782/2-A	Lab Control Sample	Total/NA	Solid	8270D	62782
LCSD 860-62782/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	62782

Analysis Batch: 63292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8270D	62782
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8270D	62782

Prep Batch: 587220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3546	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	3546	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	3546	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	3546	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	3546	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3546	
MB 400-587220/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-587220/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3546	
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3546	

Analysis Batch: 587520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8270D	587220
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8270D	587220
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8270D	587220
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8270D	587220
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8270D	587220
MB 400-587220/1-A	Method Blank	Total/NA	Solid	8270D	587220
LCS 400-587220/2-A	Lab Control Sample	Total/NA	Solid	8270D	587220

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

GC/MS Semi VOA (Continued)

Analysis Batch: 587520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8270D	587220
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8270D	587220

Analysis Batch: 587717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8270D	587220

GC Semi VOA

Prep Batch: 62820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	3550C	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3550C	
MB 860-62820/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-62820/15-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-62820/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-62820/16-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-62820/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 63099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8082A	62820
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8082A	62820
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8082A	62820
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8082A	62820
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8082A	62820
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8082A	62820
MB 860-62820/1-A	Method Blank	Total/NA	Solid	8082A	62820
LCS 860-62820/15-A	Lab Control Sample	Total/NA	Solid	8082A	62820
LCSD 860-62820/16-A	Lab Control Sample Dup	Total/NA	Solid	8082A	62820

Analysis Batch: 63116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8081B	62820
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8081B	62820
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8081B	62820
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8081B	62820
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8081B	62820
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8081B	62820
MB 860-62820/1-A	Method Blank	Total/NA	Solid	8081B	62820
LCS 860-62820/2-A	Lab Control Sample	Total/NA	Solid	8081B	62820
LCSD 860-62820/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	62820

Analysis Batch: 63960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8015B NM	64061
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8015B NM	64061

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

GC Semi VOA (Continued)

Analysis Batch: 63960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8015B NM	64061
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8015B NM	64061
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8015B NM	64061
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8015B NM	64061
MB 860-64061/1-A	Method Blank	Total/NA	Solid	8015B NM	64061
LCS 860-64061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64061
LCSD 860-64061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64061

Prep Batch: 64061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8015NM Prep	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8015NM Prep	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8015NM Prep	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8015NM Prep	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8015NM Prep	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8015NM Prep	
MB 860-64061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-64061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-64061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Prep Batch: 66062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	300_Prep	
MB 860-66062/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	300_Prep	
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	300_Prep	

Analysis Batch: 66118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	9056A	66062
MB 860-66062/1-A	Method Blank	Total/NA	Solid	9056A	66062
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	9056A	66062
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	66062
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC

Analysis Batch: 66119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	9056A	66062
MB 860-66062/1-A	Method Blank	Total/NA	Solid	9056A	66062
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	9056A	66062
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	66062
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9056A	66062

Drying Batch: 582554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	
860-30328-6 TRL	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 582759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582554
MB 280-582759/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-582759/2-A	Lab Control Sample	Total/NA	Solid	8330B	
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582554
860-30328-6 TRL	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582554

Analysis Batch: 582877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582759
MB 280-582759/1-A	Method Blank	Total/NA	Solid	8330B	582759
LCS 280-582759/2-A	Lab Control Sample	Total/NA	Solid	8330B	582759
860-30328-6 MS	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582759

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

HPLC/IC (Continued)

Analysis Batch: 582877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-6 MSD	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582759
860-30328-6 TRL	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	8330B	582759

LCMS

Analysis Batch: 582514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-582514/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 582681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6860	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	6860	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	6860	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	6860	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	6860	
MB 280-582681/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-582681/2-A	Lab Control Sample	Total/NA	Solid	6860	
860-30328-4 MS	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	
860-30328-4 MSD	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	

Prep Batch: 582854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	PFC leach	
MB 280-582854/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-582854/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
860-30328-5 MS	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	PFC leach	
860-30328-5 MSD	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	PFC leach	

Analysis Batch: 582885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	6860	582681
MB 280-582681/1-A	Method Blank	Total/NA	Solid	6860	582681
LCS 280-582681/2-A	Lab Control Sample	Total/NA	Solid	6860	582681
860-30328-4 MS	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	582681
860-30328-4 MSD	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6860	582681

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

LCMS

Analysis Batch: 584623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-584623/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 584624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
MB 280-582854/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	582854
LCS 280-582854/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	582854
860-30328-5 MS	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854
860-30328-5 MSD	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	DV-LC-0012	582854

Metals

Prep Batch: 65730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	7471A	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	7471A	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	7471A	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	7471A	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	7471A	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	7471A	
MB 860-65730/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-65730/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-65730/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 65890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	7471A	65730
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	7471A	65730
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	7471A	65730
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	7471A	65730
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	7471A	65730
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	7471A	65730
MB 860-65730/10-A	Method Blank	Total/NA	Solid	7471A	65730
LCS 860-65730/11-A	Lab Control Sample	Total/NA	Solid	7471A	65730
LCSD 860-65730/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	65730

Prep Batch: 66279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	3051A	
MB 860-66279/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-66279/2-A	Lab Control Sample	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Metals (Continued)

Prep Batch: 66279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-66279/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3051A	
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	3051A	

Analysis Batch: 66478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	6020A	66279
MB 860-66279/1-A	Method Blank	Total/NA	Solid	6020A	66279
LCS 860-66279/2-A	Lab Control Sample	Total/NA	Solid	6020A	66279
LCSD 860-66279/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	66279
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6020A	66279
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	6020A	66279

General Chemistry

Leach Batch: 64060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Soluble	Solid	DI Leach	
860-30328-2	Cell20-Square-38-S-3-4-220726	Soluble	Solid	DI Leach	
860-30328-3	Cell20-Square-58-S-3-4-220726	Soluble	Solid	DI Leach	

Leach Batch: 64070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	7 Day Leach	Solid	335.521	
860-30328-2	Cell20-Square-38-S-3-4-220726	7 Day Leach	Solid	335.521	
860-30328-3	Cell20-Square-58-S-3-4-220726	7 Day Leach	Solid	335.521	
860-30328-4	Cell20-Square-80-S-3-4-220726	7 Day Leach	Solid	335.521	
860-30328-5	Cell21-Square-20-S-3-4-220726	7 Day Leach	Solid	335.521	
860-30328-6	Cell21-Square-40-S-3-4-220726	7 Day Leach	Solid	335.521	
LB 860-64070/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 64073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Soluble	Solid	9045D	64060
860-30328-2	Cell20-Square-38-S-3-4-220726	Soluble	Solid	9045D	64060
860-30328-3	Cell20-Square-58-S-3-4-220726	Soluble	Solid	9045D	64060

Leach Batch: 64193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-4	Cell20-Square-80-S-3-4-220726	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

General Chemistry (Continued)

Leach Batch: 64193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-5	Cell21-Square-20-S-3-4-220726	Soluble	Solid	DI Leach	
860-30328-6	Cell21-Square-40-S-3-4-220726	Soluble	Solid	DI Leach	

Prep Batch: 64199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	9012A	
MB 860-64199/32-A	Method Blank	Total/NA	Solid	9012A	
MB 860-64199/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-64199/33-A	Lab Control Sample	Total/NA	Solid	9012A	
LCS 860-64199/5-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-64199/34-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-64199/6-A	Lab Control Sample	Total/NA	Solid	9012A	
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	

Analysis Batch: 64222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-4	Cell20-Square-80-S-3-4-220726	Soluble	Solid	9045D	64193
860-30328-5	Cell21-Square-20-S-3-4-220726	Soluble	Solid	9045D	64193
860-30328-6	Cell21-Square-40-S-3-4-220726	Soluble	Solid	9045D	64193

Analysis Batch: 64278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	9012A	64199
MB 860-64199/32-A	Method Blank	Total/NA	Solid	9012A	64199
MB 860-64199/4-A	Method Blank	Total/NA	Solid	9012A	64199
LCS 860-64199/33-A	Lab Control Sample	Total/NA	Solid	9012A	64199
LCS 860-64199/5-A	Lab Control Sample	Total/NA	Solid	9012A	64199
LCSD 860-64199/34-A	Lab Control Sample Dup	Total/NA	Solid	9012A	64199
LLCS 860-64199/6-A	Lab Control Sample	Total/NA	Solid	9012A	64199
860-30328-1 MS	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	64199
860-30328-1 MSD	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9012A	64199

Analysis Batch: 64442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Moisture - 2540	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	Moisture - 2540	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	Moisture - 2540	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	Moisture - 2540	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	Moisture - 2540	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Moisture - 2540	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

General Chemistry (Continued)

Analysis Batch: 64442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-64442/1	Method Blank	Total/NA	Solid	Moisture - 2540	
860-30328-1 DU	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 65273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
860-30328-2	Cell20-Square-38-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
860-30328-3	Cell20-Square-58-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
860-30328-4	Cell20-Square-80-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
860-30328-5	Cell21-Square-20-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
860-30328-6	Cell21-Square-40-S-3-4-220726	7 Day Leach	Solid	SM 2540C	64070
LB 860-64070/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	64070
MB 860-65273/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-65273/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-65273/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	

Prep Batch: 65803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Distill/Phenol	
MB 860-65803/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-65803/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-65803/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 65804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	9066	65803
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	9066	65803
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	9066	65803
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	9066	65803
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	9066	65803
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	9066	65803
MB 860-65803/1-A	Method Blank	Total/NA	Solid	9066	65803
LCS 860-65803/2-A	Lab Control Sample	Total/NA	Solid	9066	65803
LCSD 860-65803/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	65803

Rad

Leach Batch: 575580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Dry and Grind	
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Rad

Prep Batch: 576043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30328-1	Cell20-Square-60-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
860-30328-2	Cell20-Square-38-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
860-30328-3	Cell20-Square-58-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
860-30328-4	Cell20-Square-80-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
860-30328-5	Cell21-Square-20-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
860-30328-6	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580
MB 160-576043/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-576043/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
860-30328-6 DU	Cell21-Square-40-S-3-4-220726	Total/NA	Solid	Fill_Geo-21	575580

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-60-S-3-4-220726
Lab Sample ID: 860-30328-1
Date Collected: 07/26/22 02:31
Matrix: Solid
Date Received: 07/27/22 10:28

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	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 19:10	KLV	EET HOU
Total/NA	Prep	5035			5.01 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 18:54	KLV	EET HOU
Total/NA	Prep	3550C			30.42 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		2			63292	08/02/22 21:00	PXS	EET HOU
Total/NA	Prep	3546			15.09 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587520	08/04/22 18:26	KJA	EET PEN
Total/NA	Prep	8015NM Prep			9.88 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 19:42	T1S	EET HOU
Total/NA	Prep	3550C			30.72 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		1			63116	08/01/22 17:47	WP	EET HOU
Total/NA	Prep	3550C			30.72 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		1			63099	08/01/22 12:42	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.85 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 18:21	JZ	EET DEN
Total/NA	Prep	300_Prep			5.05 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 02:40	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.05 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 02:40	RBNS	EET HOU
Total/NA	Prep	6860			10.24 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 12:29	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.62 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 09:11	AGCM	EET DEN
Total/NA	Prep	3051A			.58 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:06	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:09	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:51	SHZ	EET HOU
Total/NA	Prep	9012A			0.4956 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:36	YVD	EET HOU
Soluble	Leach	DI Leach			20.03 g	20 mL	64060	08/08/22 17:00	TL	EET HOU
Soluble	Analysis	9045D		1	20.03 g	20 mL	64073	08/08/22 17:56	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 21:55	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			361.1000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579207	08/24/22 13:47	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-38-S-3-4-220726
Lab Sample ID: 860-30328-2
Date Collected: 07/26/22 10:05
Matrix: Solid
Date Received: 07/27/22 10:28

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	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 19:34	KLV	EET HOU
Total/NA	Prep	5035			5.02 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 19:12	KLV	EET HOU
Total/NA	Prep	3550C			30.18 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		2			63292	08/02/22 21:23	PXS	EET HOU
Total/NA	Prep	3546			15.33 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587520	08/04/22 19:46	KJA	EET PEN
Total/NA	Prep	8015NM Prep			9.78 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 20:02	T1S	EET HOU
Total/NA	Prep	3550C			30.90 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		1			63116	08/01/22 18:03	WP	EET HOU
Total/NA	Prep	3550C			30.90 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		1			63099	08/01/22 12:53	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.60 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 18:44	JZ	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 03:49	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 03:49	RBNS	EET HOU
Total/NA	Prep	6860			10.13 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 12:34	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.50 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 09:20	AGCM	EET DEN
Total/NA	Prep	3051A			.6 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:29	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:32	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:52	SHZ	EET HOU
Total/NA	Prep	9012A			0.4983 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:40	YVD	EET HOU
Soluble	Leach	DI Leach			20.01 g	20 mL	64060	08/08/22 17:00	TL	EET HOU
Soluble	Analysis	9045D		1	20.01 g	20 mL	64073	08/08/22 17:56	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 21:57	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			342.7000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579208	08/24/22 14:28	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-58-S-3-4-220726
Lab Sample ID: 860-30328-3
Date Collected: 07/26/22 10:45
Matrix: Solid
Date Received: 07/27/22 10:28

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	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 19:57	KLV	EET HOU
Total/NA	Prep	5035			4.96 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 19:29	KLV	EET HOU
Total/NA	Prep	3550C			30.03 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		1			63114	08/01/22 21:03	LPL	EET HOU
Total/NA	Prep	3546			15.18 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		5			587520	08/04/22 20:39	KJA	EET PEN
Total/NA	Prep	8015NM Prep			9.8 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 20:22	T1S	EET HOU
Total/NA	Prep	3550C			30.67 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		2			63116	08/01/22 18:19	WP	EET HOU
Total/NA	Prep	3550C			30.67 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		2			63099	08/01/22 15:07	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.40 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 19:30	JZ	EET DEN
Total/NA	Prep	300_Prep			5.04 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 04:03	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.04 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 04:03	RBNS	EET HOU
Total/NA	Prep	6860			10.53 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 12:39	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.07 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 09:28	AGCM	EET DEN
Total/NA	Prep	3051A			.57 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:35	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:47	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:54	SHZ	EET HOU
Total/NA	Prep	9012A			0.4983 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:41	YVD	EET HOU
Soluble	Leach	DI Leach			20.02 g	20 mL	64060	08/08/22 17:00	TL	EET HOU
Soluble	Analysis	9045D		1	20.02 g	20 mL	64073	08/08/22 17:56	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 22:00	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			346.5000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579203	08/24/22 14:29	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-80-S-3-4-220726
Lab Sample ID: 860-30328-4
Date Collected: 07/26/22 11:16
Matrix: Solid
Date Received: 07/27/22 10:28

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	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 20:20	KLV	EET HOU
Total/NA	Prep	5035			4.98 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 19:46	KLV	EET HOU
Total/NA	Prep	3550C			30.36 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		2			63292	08/02/22 21:47	PXS	EET HOU
Total/NA	Prep	3546			15.54 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587520	08/04/22 20:12	KJA	EET PEN
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 20:42	T1S	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		1			63116	08/01/22 18:35	WP	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		1			63099	08/01/22 13:04	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.29 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 19:53	JZ	EET DEN
Total/NA	Prep	300_Prep			5.02 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 04:16	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.02 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 04:16	RBNS	EET HOU
Total/NA	Prep	6860			10.85 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 12:45	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.82 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 09:37	AGCM	EET DEN
Total/NA	Prep	3051A			.58 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:38	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:50	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:55	SHZ	EET HOU
Total/NA	Prep	9012A			0.4991 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:43	YVD	EET HOU
Soluble	Leach	DI Leach			20.03 g	20 mL	64193	08/09/22 13:14	TL	EET HOU
Soluble	Analysis	9045D		1	20.03 g	20 mL	64222	08/09/22 15:28	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 22:14	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			356.4000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579206	08/24/22 14:27	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-20-S-3-4-220726
Lab Sample ID: 860-30328-5
Date Collected: 07/26/22 12:26
Matrix: Solid
Date Received: 07/27/22 10:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.06 g	5 mL	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 20:44	KLV	EET HOU
Total/NA	Prep	5035			4.98 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 20:04	KLV	EET HOU
Total/NA	Prep	3550C			30.72 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		1			63114	08/01/22 21:51	LPL	EET HOU
Total/NA	Prep	3546			15.41 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587520	08/04/22 21:05	KJA	EET PEN
Total/NA	Prep	8015NM Prep			9.87 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 21:03	T1S	EET HOU
Total/NA	Prep	3550C			30.07 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		1			63116	08/01/22 19:22	WP	EET HOU
Total/NA	Prep	3550C			30.07 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		1			63099	08/01/22 13:16	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.34 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 20:16	JZ	EET DEN
Total/NA	Prep	300_Prep			5.03 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 04:30	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 04:30	RBNS	EET HOU
Total/NA	Prep	6860			10.06 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 13:17	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.43 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 09:46	AGCM	EET DEN
Total/NA	Prep	3051A			.56 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:41	SHZ	EET HOU
Total/NA	Prep	3051A			.56 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:53	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:57	SHZ	EET HOU
Total/NA	Prep	9012A			0.5010 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:44	YVD	EET HOU
Soluble	Leach	DI Leach			20.07 g	20 mL	64193	08/09/22 13:14	TL	EET HOU
Soluble	Analysis	9045D		1	20.07 g	20 mL	64222	08/09/22 15:28	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 22:16	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			311.4000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579205	08/24/22 14:28	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30328-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-40-S-3-4-220726
Lab Sample ID: 860-30328-6
Date Collected: 07/26/22 13:00
Matrix: Solid
Date Received: 07/27/22 10:28

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	62831	07/28/22 15:29	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	62746	07/28/22 21:07	KLV	EET HOU
Total/NA	Prep	5035			4.99 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 20:21	KLV	EET HOU
Total/NA	Prep	3550C			30.94 g	1 mL	62782	07/28/22 12:34	TH	EET HOU
Total/NA	Analysis	8270D		1			63114	08/01/22 19:52	LPL	EET HOU
Total/NA	Prep	3546			15.49 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587717	08/05/22 23:11	PP1	EET PEN
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 21:43	T1S	EET HOU
Total/NA	Prep	3550C			30.21 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8081B		1			63116	08/01/22 19:38	WP	EET HOU
Total/NA	Prep	3550C			30.21 g	5 mL	62820	07/28/22 14:27	TH	EET HOU
Total/NA	Analysis	8082A		1			63099	08/01/22 13:27	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.78 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 20:39	JZ	EET DEN
Total/NA	Prep	300_Prep			5.01 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 04:44	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 04:44	RBNS	EET HOU
Total/NA	Prep	6860			10.44 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 13:22	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.38 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 10:12	AGCM	EET DEN
Total/NA	Prep	3051A			.59 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		1			66478	08/24/22 18:44	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	66279	08/23/22 19:04	PB	EET HOU
Total/NA	Analysis	6020A		10			66478	08/24/22 18:56	SHZ	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	65730	08/19/22 08:59	AGR	EET HOU
Total/NA	Analysis	7471A		1			65890	08/19/22 16:58	SHZ	EET HOU
Total/NA	Prep	9012A			0.4988 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:46	YVD	EET HOU
Soluble	Leach	DI Leach			20.12 g	20 mL	64193	08/09/22 13:14	TL	EET HOU
Soluble	Analysis	9045D		1	20.12 g	20 mL	64222	08/09/22 15:28	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 22:19	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	575580	07/29/22 15:25	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			337.6000 g	1.0 g	576043	08/01/22 12:40	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579207	08/24/22 14:29	JCB	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Laboratory References:

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: 860-30328-1
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	21-038-0	08-04-22 *
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

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	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22 *
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22 *
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-22 *
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Laboratory: Eurofins Pensacola

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
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
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30328-1
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
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22 *
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

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
8270D	Pesticides by GC/MS	SW846	EET PEN
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
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
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	EET DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	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
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	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
6860	Deionized Water Leach Prep	SW846	EET DEN
7471A	Preparation, Mercury	SW846	EET HOU
8015NM Prep	Microextraction	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 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
PFC leach	Leaching procedure for PFAS	TAL-DEN	EET DEN
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
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30328-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

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: 860-30328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-30328-1	Cell20-Square-60-S-3-4-220726	Solid	07/26/22 02:31	07/27/22 10:28
860-30328-2	Cell20-Square-38-S-3-4-220726	Solid	07/26/22 10:05	07/27/22 10:28
860-30328-3	Cell20-Square-58-S-3-4-220726	Solid	07/26/22 10:45	07/27/22 10:28
860-30328-4	Cell20-Square-80-S-3-4-220726	Solid	07/26/22 11:16	07/27/22 10:28
860-30328-5	Cell21-Square-20-S-3-4-220726	Solid	07/26/22 12:26	07/27/22 10:28
860-30328-6	Cell21-Square-40-S-3-4-220726	Solid	07/26/22 13:00	07/27/22 10:28

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Jeny.S.Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-788-0876	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 2
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard TAT			
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 Loss(Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9056- Phanolos/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell20-Square-60-S-3-4-220726	072622	0831	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell20-Square-38-S-3-4-220726	072622	1005	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-30328 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
Jeny.S.Longwell	07/26/22 1015	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 7/27/22 1028	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:

Temp. 4.6 IR ID HOU-339
C/F:-1.4
Corrected Temp: 3 2

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, 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: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-288-0874	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 2 of 2
Company: ARCADIS U.S. Inc.				Job #:

Address: 630 Plaza Drive Suite 100	Due Date Requested:
City: Highlands Ranch	TAT Requested (days): Std 2-3 TAT
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 228/228- 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:																		
Cell 20-Square-58-5-3-4-220726	072622	1045	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell 20-Square-80-5-3-4-220726	072622	1116	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																	
				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
1	Jerry S. Longwell	07/26/22 / 1520	ARCADIS	FedEx		
2	FedEx			Paloma	7/27/22 1028	Ex
3						

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

Cooler Temperature(s) °C and Other Remarks: Temp: 3.9 IR ID.HOU-339 C/F: 1.4 Corrected Temp: 2.5

01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, 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: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-288-0874	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		Preservation Codes
City: Highlands Ranch	TAT Requested (days): Standard TAT			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:
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#:			

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	6850 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	8016B_GRO	8015_ DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9065- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate, Fluoride	9020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
				Preservation Code:																	
Cell 21-Square-20-S-34-220726	072622	1226	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell 21-Square-#0-S-3-4-220726	072622	1300	G	Solid			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
1	Jerry S. Longwell	072622 1526	ARCADIS	FedEx		
2	FedEx				7/27/22 1028	Ex
3						

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

Cooler Temperature(s) °C and Other Remarks: Temp 3.1 IR ID HOU-339 C/F: 1.4 Corrected Temp: 1.7

/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-15483.1
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 #: 860-30328-1
Address: 13715 Rider Trail North,	Due Date Requested: 8/15/2022			
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:						
Cell20-Square-60-5-5-4-220726 (860-30328-1)	7/26/22	02:31 Central		Solid			X	2	
Cell20-Square-38-5-3-4-220726 (860-30328-2)	7/26/22	10:05 Central		Solid			X	2	
Cell20-Square-58-5-3-4-220726 (860-30328-3)	7/26/22	10:45 Central		Solid			X	2	
Cell20-Square-80-5-3-4-220726 (860-30328-4)	7/26/22	11:16 Central		Solid			X	2	
Cell21-Square-20-5-3-4-220726 (860-30328-5)	7/26/22	12:26 Central		Solid			X	2	
Cell21-Square-40-5-3-4-220726 (860-30328-6)	7/26/22	13:00 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 out 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 complicance 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
1	[signature] FED EX	7/27/22 1900	EX	FED EX		
2	FED EX			[signature]	JUL 2 8 2022 0800	ETA SW
3				Micha Korrinhizer		

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 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: 860-15481.1
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 #: 860-30328-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 8/12/2022			
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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell20-Square-60-5-5-4-220726 (860-30328-1)	7/26/22	02:31 Central		Solid			X	X	X	3	
Cell20-Square-38-5-3-4-220726 (860-30328-2)	7/26/22	10:05 Central		Solid			X	X	X	3	
Cell20-Square-58-5-3-4-220726 (860-30328-3)	7/26/22	10:45 Central		Solid			X	X	X	3	
Cell20-Square-80-5-3-4-220726 (860-30328-4)	7/26/22	11:16 Central		Solid			X	X	X	3	
Cell21-Square-20-5-3-4-220726 (860-30328-5)	7/26/22	12:26 Central		Solid			X	X	X	3	
Cell21-Square-40-5-3-4-220726 (860-30328-6)	7/26/22	13:00 Central		Solid			X	X	X	3	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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]	7/27/22 1900	Ex	[signature]	07/28/2022 0955	GA DEM
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: 2.7 CF+0.1 IR #12

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 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: 860-15477.1
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 #: 860-30328-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 8/3/2022			
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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square-60-5-5-4-220726 (860-30328-1)	7/26/22	02:31 Central		Solid			X	1	
Cell20-Square-38-5-3-4-220726 (860-30328-2)	7/26/22	10:05 Central		Solid			X	1	
Cell20-Square-58-5-3-4-220726 (860-30328-3)	7/26/22	10:45 Central		Solid			X	1	
Cell20-Square-80-5-3-4-220726 (860-30328-4)	7/26/22	11:16 Central		Solid			X	1	
Cell21-Square-20-5-3-4-220726 (860-30328-5)	7/26/22	12:26 Central		Solid			X	1	
Cell21-Square-40-5-3-4-220726 (860-30328-6)	7/26/22	13:00 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 out 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 complicance 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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/28/22 09:34	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6 °C IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-30328-1

Login Number: 30328 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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	
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	N/A	
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.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-30328-1

Login Number: 30328 **List Source: Eurofins Denver**
List Number: 3 **List Creation: 07/28/22 02:52 PM**
Creator: Kazenga, Oliver M

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.	False	Not present
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.	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: 860-30328-1

Login Number: 30328 **List Source: Eurofins Pensacola**
List Number: 2 **List Creation: 07/28/22 01:23 PM**
Creator: Roberts, Alexis J

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	4.6°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 U.S., Inc. Job Number: 860-30328-1

Login Number: 30328 **List Source: Eurofins St. Louis**
List Number: 4 **List Creation: 07/28/22 05:46 PM**
Creator: Booker, Autumn R

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-30420-1
Client Project/Site: Chevron - Jal Land Farm Soils

For:
ARCADIS U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Attn: Alison Schaffer

Authorized for release by:
8/26/2022 5:52:57 PM

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

LINKS
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-30420-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
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 Semi VOA

Qualifier	Qualifier Description
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.

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
b	The compound was found in the blank and sample
H	Sample was prepped or analyzed beyond the specified holding time
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.

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
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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-30420-1

Receipt
The samples were received on 7/28/2022 10:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

GC/MS VOA
Method 8260D_SIM: Sample was a bulk jar.Cell21-Square-62-S-3-4-220727 (860-30420-1), Cell21-Square-42-S-3-4-220727 (860-30420-2), (860-30328-P-1-B) and (860-30328-P-1-A MS)

Method 8260C: Sample is a bulk jar.Cell21-Square-62-S-3-4-220727 (860-30420-1), Cell21-Square-42-S-3-4-220727 (860-30420-2) and (860-30420-O-2-B 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_AgChem: The following sample was diluted due to the nature of the sample matrix: Cell21-Square-62-S-3-4-220727 (860-30420-1). 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.

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

HPLC/IC
Method 8330B: Cell21-Square-62-S-3-4-220727 (860-30420-1) and Cell21-Square-42-S-3-4-220727 (860-30420-2) in preparation batch 280-582554 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
Method PFC: The Isotope Dilution Analyte (IDA) recovery associated with the following samples in PFC preparation batch 280-582854 and analytical batch 280-584624 is below the method recommended limit: Cell21-Square-62-S-3-4-220727 (860-30420-1) and (MB 280-582854/1-A). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

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

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

General Chemistry

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1 (Continued)

Laboratory: Eurofins Houston (Continued)

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

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-576563Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. 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 Pa-234Th-234 U-238Pb-210 Po-210Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-12 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-226Any 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. **The method blank (MB) Z-score is within limits and is located in the level IV raw dataCell21-Square-62-S-3-4-220727 (860-30420-1), Cell21-Square-42-S-3-4-220727 (860-30420-2), (410-92910-C-2-B) and (410-92910-C-2-C DU)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-62-S-3-4-220727 Lab Sample ID: 860-30420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.3		10.0	3.54	mg/Kg	1		9056A	Total/NA
Fluoride	6.94		5.00	1.00	mg/Kg	1		9056A	Total/NA
Sulfate	142		10.0	4.32	mg/Kg	1		9056A	Total/NA
Arsenic	3.11		0.702	0.108	mg/Kg	2		6020A	Total/NA
Barium	1050		3.51	0.304	mg/Kg	10		6020A	Total/NA
Beryllium	0.169	J	0.351	0.0325	mg/Kg	2		6020A	Total/NA
Cadmium	0.0732	J	0.351	0.0203	mg/Kg	2		6020A	Total/NA
Chromium	3.26		0.702	0.0476	mg/Kg	2		6020A	Total/NA
Copper	1.81		0.702	0.0458	mg/Kg	2		6020A	Total/NA
Iron	2800		17.5	2.06	mg/Kg	10		6020A	Total/NA
Manganese	25.3		0.351	0.0447	mg/Kg	2		6020A	Total/NA
Lead	1.77		0.351	0.0340	mg/Kg	2		6020A	Total/NA
Selenium	0.128	J	0.351	0.0871	mg/Kg	2		6020A	Total/NA
Thallium	0.0581	J	0.351	0.0419	mg/Kg	2		6020A	Total/NA
Uranium	0.449		0.175	0.0105	mg/Kg	2		6020A	Total/NA
Zinc	6.74		0.702	0.0776	mg/Kg	2		6020A	Total/NA
Cyanide, Total	42.8	J	60.3	29.9	ug/Kg	1		9012A	Total/NA
pH	8.7	HF			SU	1		9045D	Soluble
Total Dissolved Solids	142	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

Client Sample ID: Cell21-Square-42-S-3-4-220727 Lab Sample ID: 860-30420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.6		9.98	3.53	mg/Kg	1		9056A	Total/NA
Fluoride	8.25		4.99	0.998	mg/Kg	1		9056A	Total/NA
Sulfate	101		9.98	4.31	mg/Kg	1		9056A	Total/NA
Perchlorate	0.194	J	0.487	0.0803	ug/Kg	1		6860	Total/NA
Arsenic	4.25		0.690	0.106	mg/Kg	2		6020A	Total/NA
Barium	359		3.45	0.299	mg/Kg	10		6020A	Total/NA
Beryllium	0.162	J	0.345	0.0319	mg/Kg	2		6020A	Total/NA
Cadmium	0.0703	J	0.345	0.0200	mg/Kg	2		6020A	Total/NA
Chromium	3.22		0.690	0.0468	mg/Kg	2		6020A	Total/NA
Copper	1.86		0.690	0.0450	mg/Kg	2		6020A	Total/NA
Iron	2810		17.2	2.02	mg/Kg	10		6020A	Total/NA
Manganese	25.4		0.345	0.0439	mg/Kg	2		6020A	Total/NA
Lead	1.68		0.345	0.0334	mg/Kg	2		6020A	Total/NA
Antimony	0.124	J	0.345	0.0205	mg/Kg	2		6020A	Total/NA
Selenium	0.139	J	0.345	0.0856	mg/Kg	2		6020A	Total/NA
Thallium	0.0521	J	0.345	0.0412	mg/Kg	2		6020A	Total/NA
Uranium	0.661		0.172	0.0103	mg/Kg	2		6020A	Total/NA
Zinc	7.46		0.690	0.0763	mg/Kg	2		6020A	Total/NA
Cyanide, Total	86.2		60.3	29.9	ug/Kg	1		9012A	Total/NA
pH	8.4	HF			SU	1		9045D	Soluble
Total Dissolved Solids	212	H b	5.00	5.00	mg/L	1		SM 2540C	7 Day Leach

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-62-S-3-4-220727
Date Collected: 07/27/22 08:00
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	38.9	U	49.9	38.9	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Acrylonitrile	9.05	U	20.0	9.05	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Benzene	0.732	U	0.998	0.732	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Bromodichloromethane	1.78	U	4.99	1.78	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Tribromomethane	2.21	U	4.99	2.21	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Bromomethane	2.42	U	4.99	2.42	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Methyl tert-butyl ether	1.97	U	4.99	1.97	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Carbon tetrachloride	1.81	U	4.99	1.81	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Monochlorobenzene	1.47	U	4.99	1.47	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Chloroform	1.70	U	4.99	1.70	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Chloromethane	2.85	U	4.99	2.85	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,2-Dibromoethane	1.63	U	4.99	1.63	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,2-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,3-Dichlorobenzene	1.45	U	4.99	1.45	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,4-Dichlorobenzene	1.44	U	4.99	1.44	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Dichlorodifluoromethane	2.99	U	4.99	2.99	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1-Dichloroethane	1.63	U	4.99	1.63	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,2-Dichloroethane	1.91	U	4.99	1.91	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1-Dichloroethene	1.77	U	4.99	1.77	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
cis-1,2-Dichloroethene	1.49	U	4.99	1.49	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
trans-1,2-Dichloroethene	1.58	U	4.99	1.58	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,2-Dichloropropane	1.69	U	4.99	1.69	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
cis-1,3-Dichloropropene	1.63	U	4.99	1.63	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
trans-1,3-Dichloropropene	1.66	U	4.99	1.66	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1-Dichloropropene	1.74	U	4.99	1.74	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,4-Dioxane	24.0	U	49.9	24.0	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Ethylbenzene	0.664	U	0.998	0.664	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Methylene Chloride	12.4	U	20.0	12.4	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Styrene	1.49	U	4.99	1.49	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1,2,2-Tetrachloroethane	0.164	U	4.99	0.164	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Tetrachloroethene	1.62	U	4.99	1.62	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Toluene	1.91	U	4.99	1.91	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,2,4-Trichlorobenzene	2.00	U	4.99	2.00	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1,1-Trichloroethane	1.67	U	4.99	1.67	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,1,2-Trichloroethane	1.62	U	4.99	1.62	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Trichloroethene	1.90	U	4.99	1.90	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Trichlorofluoromethane	1.78	U	4.99	1.78	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Vinyl chloride	1.84	U	4.99	1.84	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
Xylenes, Total	0.898	U	2.00	0.898	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
1,3-Dichloropropene, Total	1.66	U	4.99	1.66	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
o-Xylene	0.898	U	0.998	0.898	ug/Kg		08/01/22 15:40	08/01/22 17:40	1
m,p-Xylenes	0.798	U	2.00	0.798	ug/Kg		08/01/22 15:40	08/01/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*08/01/22 15:40*	*08/01/22 17:40*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*	*08/01/22 15:40*	*08/01/22 17:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*08/01/22 15:40*	*08/01/22 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*56 - 150*	*08/01/22 15:40*	*08/01/22 17:40*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-62-S-3-4-220727

Date Collected: 07/27/22 08:00
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-1

Matrix: Solid

Method: 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		08/08/22 16:30	08/08/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*	*08/08/22 16:30*	*08/08/22 20:38*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	59.5	U	327	59.5	ug/Kg		08/02/22 12:32	08/05/22 22:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*76*		*30 - 164*	*08/02/22 12:32*	*08/05/22 22:18*	*5*

Method: 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		08/02/22 15:39	08/03/22 12:37	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		08/02/22 15:39	08/03/22 12:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-62-S-3-4-220727 **Lab Sample ID: 860-30420-1**
Date Collected: 07/27/22 08:00 **Matrix: Solid**
Date Received: 07/28/22 10:12

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/02/22 15:39	08/03/22 12:37	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/02/22 15:39	08/03/22 12:37	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/02/22 15:39	08/03/22 12:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.667*	*U*	*mg/Kg*			*542-88-1*	*08/02/22 15:39*	*08/03/22 12:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*30 - 115*	*08/02/22 15:39*	*08/03/22 12:37*	*1*
2-Fluorophenol	*74*		*25 - 121*	*08/02/22 15:39*	*08/03/22 12:37*	*1*
2,4,6-Tribromophenol	*58*		*19 - 122*	*08/02/22 15:39*	*08/03/22 12:37*	*1*
Nitrobenzene-d5	*65*		*23 - 129*	*08/02/22 15:39*	*08/03/22 12:37*	*1*
Phenol-d5 (Surr)	*74*		*24 - 113*	*08/02/22 15:39*	*08/03/22 12:37*	*1*
p-Terphenyl-d14 (Surr)	*87*		*18 - 137*	*08/02/22 15:39*	*08/03/22 12:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.3	U	45.7	19.3	mg/Kg		08/08/22 17:02	08/08/22 19:02	1
Diesel Range Organics (Over C10-C28)	19.3	U	45.7	19.3	mg/Kg		08/08/22 17:02	08/08/22 19:02	1
Oil Range Organics (Over C28-C36)	19.3	U	45.7	19.3	mg/Kg		08/08/22 17:02	08/08/22 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:02*	*1*
o-Terphenyl (Surr)	*119*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.832	0.254	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Endosulfan I	0.202	U	0.832	0.202	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Endosulfan sulfate	0.276	U	0.832	0.276	ug/Kg		08/08/22 06:30	08/08/22 13:31	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-62-S-3-4-220727

Date Collected: 07/27/22 08:00
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.291	U	0.832	0.291	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Heptachlor	0.562	U	0.832	0.562	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Heptachlor epoxide	0.245	U	0.832	0.245	ug/Kg		08/08/22 06:30	08/08/22 13:31	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		08/08/22 06:30	08/08/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*35 - 135*	*08/08/22 06:30*	*08/08/22 13:31*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*25 - 143*	*08/08/22 06:30*	*08/08/22 13:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1254	0.00260	U	0.0167	0.00260	mg/Kg		08/08/22 06:30	08/08/22 20:31	1
Aroclor 1260	0.00260	U	0.0167	0.00260	mg/Kg		08/08/22 06:30	08/08/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*35 - 140*	*08/08/22 06:30*	*08/08/22 20:31*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*37 - 142*	*08/08/22 06:30*	*08/08/22 20:31*	*1*

Method: 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	0.0223	U	0.0980	0.0223	mg/Kg		08/02/22 17:50	08/03/22 22:34	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0422	U	0.196	0.0422	mg/Kg		08/02/22 17:50	08/03/22 22:34	1
2,4,6-Trinitrotoluene	0.0301	U	0.0980	0.0301	mg/Kg		08/02/22 17:50	08/03/22 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/02/22 17:50*	*08/03/22 22:34*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.3**		10.0	3.54	mg/Kg		08/22/22 14:59	08/23/22 04:58	1
Nitrate as N	0.108	U	1.00	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:58	1
Fluoride	**6.94**		5.00	1.00	mg/Kg		08/22/22 14:59	08/23/22 04:58	1
Nitrite as N	0.0500	U	1.00	0.0500	mg/Kg		08/22/22 14:59	08/23/22 04:58	1
Nitrate Nitrite as N	0.108	U	1.00	0.108	mg/Kg		08/22/22 14:59	08/23/22 04:58	1
Sulfate	**142**		10.0	4.32	mg/Kg		08/22/22 14:59	08/23/22 04:58	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0769	U	0.466	0.0769	ug/Kg		08/02/22 14:51	08/03/22 13:27	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.216	U	0.751	0.216	ug/Kg		08/03/22 13:27	08/20/22 10:30	1
Perfluorohexanesulfonic acid (PFHxS)	0.263	U	0.751	0.263	ug/Kg		08/03/22 13:27	08/20/22 10:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-62-S-3-4-220727

Date Collected: 07/27/22 08:00
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-1

Matrix: Solid

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.131	U	0.751	0.131	ug/Kg		08/03/22 13:27	08/20/22 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/03/22 13:27*	*08/20/22 10:30*	*1*
13C8 PFOS	*104*		*70 - 130*	*08/03/22 13:27*	*08/20/22 10:30*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0279	U	0.351	0.0279	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Arsenic	**3.11**		0.702	0.108	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Barium	**1050**		3.51	0.304	mg/Kg		08/24/22 10:15	08/25/22 21:46	10
Beryllium	**0.169**	**J**	0.351	0.0325	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Cadmium	**0.0732**	**J**	0.351	0.0203	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Chromium	**3.26**		0.702	0.0476	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Copper	**1.81**		0.702	0.0458	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Iron	**2800**		17.5	2.06	mg/Kg		08/24/22 10:15	08/25/22 21:46	10
Manganese	**25.3**		0.351	0.0447	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Lead	**1.77**		0.351	0.0340	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Antimony	0.0209	U	0.351	0.0209	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Selenium	**0.128**	**J**	0.351	0.0871	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Thallium	**0.0581**	**J**	0.351	0.0419	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Uranium	**0.449**		0.175	0.0105	mg/Kg		08/24/22 10:15	08/25/22 21:37	2
Zinc	**6.74**		0.702	0.0776	mg/Kg		08/24/22 10:15	08/25/22 21:37	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00799	U	0.0179	0.00799	mg/Kg		08/23/22 08:27	08/23/22 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**42.8**	**J**	60.3	29.9	ug/Kg		08/09/22 13:09	08/09/22 16:47	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:42	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**	**HF**			SU			08/11/22 14:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**142**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**0.567**		0.109	0.124	1.00	0.0682	pCi/g	08/04/22 15:24	08/25/22 06:22	1
Radium-228	0.0568	U	0.145	0.145		0.192	pCi/g	08/04/22 15:24	08/25/22 06:22	1
Combined Radium 226 + 228	**0.624**		0.181	0.191		0.192	pCi/g	08/04/22 15:24	08/25/22 06:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-42-S-3-4-220727

Date Collected: 07/27/22 09:25
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.4	U	50.5	39.4	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Acrylonitrile	9.16	U	20.2	9.16	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Benzene	0.740	U	1.01	0.740	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Bromodichloromethane	1.80	U	5.05	1.80	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Tribromomethane	2.23	U	5.05	2.23	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Bromomethane	2.45	U	5.05	2.45	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Methyl tert-butyl ether	2.00	U	5.05	2.00	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Carbon tetrachloride	1.83	U	5.05	1.83	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Monochlorobenzene	1.49	U	5.05	1.49	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Chloroform	1.72	U	5.05	1.72	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Chloromethane	2.88	U	5.05	2.88	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,2-Dibromoethane	1.65	U	5.05	1.65	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,2-Dichlorobenzene	1.47	U	5.05	1.47	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,3-Dichlorobenzene	1.47	U	5.05	1.47	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,4-Dichlorobenzene	1.45	U	5.05	1.45	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Dichlorodifluoromethane	3.03	U	5.05	3.03	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1-Dichloroethane	1.65	U	5.05	1.65	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,2-Dichloroethane	1.93	U	5.05	1.93	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1-Dichloroethene	1.79	U	5.05	1.79	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
cis-1,2-Dichloroethene	1.51	U	5.05	1.51	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
trans-1,2-Dichloroethene	1.60	U	5.05	1.60	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,2-Dichloropropane	1.71	U	5.05	1.71	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
cis-1,3-Dichloropropene	1.65	U	5.05	1.65	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
trans-1,3-Dichloropropene	1.68	U	5.05	1.68	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1-Dichloropropene	1.76	U	5.05	1.76	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,4-Dioxane	24.3	U	50.5	24.3	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Ethylbenzene	0.672	U	1.01	0.672	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Methylene Chloride	12.6	U	20.2	12.6	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Styrene	1.51	U	5.05	1.51	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1,2,2-Tetrachloroethane	0.166	U	5.05	0.166	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Tetrachloroethene	1.64	U	5.05	1.64	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Toluene	1.93	U	5.05	1.93	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,2,4-Trichlorobenzene	2.02	U	5.05	2.02	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1,1-Trichloroethane	1.69	U	5.05	1.69	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,1,2-Trichloroethane	1.64	U	5.05	1.64	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Trichloroethene	1.92	U	5.05	1.92	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Trichlorofluoromethane	1.80	U	5.05	1.80	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Vinyl chloride	1.86	U	5.05	1.86	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
Xylenes, Total	0.909	U	2.02	0.909	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
1,3-Dichloropropene, Total	1.68	U	5.05	1.68	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
o-Xylene	0.909	U	1.01	0.909	ug/Kg		08/01/22 15:40	08/01/22 18:03	1
m,p-Xylenes	0.808	U	2.02	0.808	ug/Kg		08/01/22 15:40	08/01/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*53 - 142*	*08/01/22 15:40*	*08/01/22 18:03*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*08/01/22 15:40*	*08/01/22 18:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*08/01/22 15:40*	*08/01/22 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*08/01/22 15:40*	*08/01/22 18:03*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-42-S-3-4-220727

Date Collected: 07/27/22 09:25
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-2

Matrix: Solid

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane (P-Dioxane)	0.00251	U	0.00501	0.00251	mg/Kg		08/08/22 16:30	08/08/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*	*08/08/22 16:30*	*08/08/22 20:56*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	11.8	U	64.9	11.8	ug/Kg		08/02/22 12:32	08/05/22 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*79*		*30 - 164*	*08/02/22 12:32*	*08/05/22 22:45*	*1*

Method: 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		08/02/22 15:39	08/03/22 13:01	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2,4-Dinitrotoluene	12.8	U	167	12.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Dinitrophenols	24.2	U	334	24.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2,4-Dichlorophenol	17.5	U	167	17.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Dichlorobenzidine, 3,3'-	15.4	U	334	15.4	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
4,6-Dinitro-2-methylphenol	12.7	U	334	12.7	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Di (2-ethylhexyl)phthalate	167	U	334	167	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Dibutylphthalate	16.1	U	167	16.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Fluorene	13.9	U	167	13.9	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Hexachlorobutadiene	13.9	U	167	13.9	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Indeno[1,2,3-cd]pyrene	13.5	U	167	13.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		08/02/22 15:39	08/03/22 13:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-42-S-3-4-220727

Date Collected: 07/27/22 09:25
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-2

Matrix: Solid

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Pentachlorophenol	12.1	U	334	12.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Benzidine	12.1	U	334	12.1	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Phenol	0.0150	U	0.334	0.0150	mg/Kg		08/02/22 15:39	08/03/22 13:01	1
N-Nitrosodimethylamine	16.8	U	167	16.8	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Atrazine	16.5	U	334	16.5	ug/Kg		08/02/22 15:39	08/03/22 13:01	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	334	333	ug/Kg		08/02/22 15:39	08/03/22 13:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
bis(2-chloromethyl)ether TIC	*0.668*	*U*	*mg/Kg*			*542-88-1*	*08/02/22 15:39*	*08/03/22 13:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*30 - 115*	*08/02/22 15:39*	*08/03/22 13:01*	*1*
2-Fluorophenol	*66*		*25 - 121*	*08/02/22 15:39*	*08/03/22 13:01*	*1*
2,4,6-Tribromophenol	*48*		*19 - 122*	*08/02/22 15:39*	*08/03/22 13:01*	*1*
Nitrobenzene-d5	*57*		*23 - 129*	*08/02/22 15:39*	*08/03/22 13:01*	*1*
Phenol-d5 (Surr)	*65*		*24 - 113*	*08/02/22 15:39*	*08/03/22 13:01*	*1*
p-Terphenyl-d14 (Surr)	*84*		*18 - 137*	*08/02/22 15:39*	*08/03/22 13:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	U	51.3	21.6	mg/Kg		08/08/22 17:02	08/08/22 19:22	1
Diesel Range Organics (Over C10-C28)	21.6	U	51.3	21.6	mg/Kg		08/08/22 17:02	08/08/22 19:22	1
Oil Range Organics (Over C28-C36)	21.6	U	51.3	21.6	mg/Kg		08/08/22 17:02	08/08/22 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:22*	*1*
o-Terphenyl (Surr)	*114*		*65 - 130*	*08/08/22 17:02*	*08/08/22 19:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.253	U	0.832	0.253	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Aldrin	0.362	U	0.832	0.362	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Hexachlorocyclohexane, alpha-	0.679	U	0.832	0.679	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Hexachlorocyclohexane, beta-	0.473	U	0.832	0.473	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Chlordane (technical)	23.9	U	41.6	23.9	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Hexachlorocyclohexane, delta-	0.832	U	0.832	0.832	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Dieldrin	0.169	U	0.832	0.169	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Endosulfan I	0.201	U	0.832	0.201	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Endosulfan II	0.372	U	0.832	0.372	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Endosulfan sulfate	0.275	U	0.832	0.275	ug/Kg		08/08/22 06:30	08/08/22 13:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-42-S-3-4-220727

Date Collected: 07/27/22 09:25
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-2

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	0.290	U	0.832	0.290	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Endrin aldehyde	0.247	U	0.832	0.247	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Hexachlorocyclohexane, gamma-	0.438	U	0.832	0.438	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Heptachlor	0.561	U	0.832	0.561	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Heptachlor epoxide	0.244	U	0.832	0.244	ug/Kg		08/08/22 06:30	08/08/22 13:45	1
Toxaphene	11.3	U	16.6	11.3	ug/Kg		08/08/22 06:30	08/08/22 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 135*	*08/08/22 06:30*	*08/08/22 13:45*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*25 - 143*	*08/08/22 06:30*	*08/08/22 13:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00394	U	0.0166	0.00394	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1221	0.00394	U	0.0166	0.00394	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1232	0.00394	U	0.0166	0.00394	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1242	0.00394	U	0.0166	0.00394	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1248	0.00394	U	0.0166	0.00394	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1254	0.00260	U	0.0166	0.00260	mg/Kg		08/08/22 06:30	08/08/22 20:42	1
Aroclor 1260	0.00260	U	0.0166	0.00260	mg/Kg		08/08/22 06:30	08/08/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 140*	*08/08/22 06:30*	*08/08/22 20:42*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*37 - 142*	*08/08/22 06:30*	*08/08/22 20:42*	*1*

Method: 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	0.0964	0.0219	mg/Kg		08/02/22 17:50	08/03/22 22:56	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		08/02/22 17:50	08/03/22 22:56	1
2,4,6-Trinitrotoluene	0.0296	U	0.0964	0.0296	mg/Kg		08/02/22 17:50	08/03/22 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*08/02/22 17:50*	*08/03/22 22:56*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.6**		9.98	3.53	mg/Kg		08/22/22 14:59	08/23/22 05:12	1
Nitrate as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 05:12	1
Fluoride	**8.25**		4.99	0.998	mg/Kg		08/22/22 14:59	08/23/22 05:12	1
Nitrite as N	0.0499	U	0.998	0.0499	mg/Kg		08/22/22 14:59	08/23/22 05:12	1
Nitrate Nitrite as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 05:12	1
Sulfate	**101**		9.98	4.31	mg/Kg		08/22/22 14:59	08/23/22 05:12	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.194**	**J**	0.487	0.0803	ug/Kg		08/02/22 14:51	08/03/22 13:32	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.229	U	0.798	0.229	ug/Kg		08/03/22 13:27	08/20/22 10:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.279	U	0.798	0.279	ug/Kg		08/03/22 13:27	08/20/22 10:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Client Sample ID: Cell21-Square-42-S-3-4-220727

Date Collected: 07/27/22 09:25
Date Received: 07/28/22 10:12

Lab Sample ID: 860-30420-2

Matrix: Solid

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.798	0.140	ug/Kg		08/03/22 13:27	08/20/22 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*08/03/22 13:27*	*08/20/22 10:39*	*1*
13C8 PFOS	*103*		*70 - 130*	*08/03/22 13:27*	*08/20/22 10:39*	*1*

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0274	U	0.345	0.0274	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Arsenic	**4.25**		0.690	0.106	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Barium	**359**		3.45	0.299	mg/Kg		08/24/22 10:15	08/25/22 21:52	10
Beryllium	**0.162**	**J**	0.345	0.0319	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Cadmium	**0.0703**	**J**	0.345	0.0200	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Chromium	**3.22**		0.690	0.0468	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Copper	**1.86**		0.690	0.0450	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Iron	**2810**		17.2	2.02	mg/Kg		08/24/22 10:15	08/25/22 21:52	10
Manganese	**25.4**		0.345	0.0439	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Lead	**1.68**		0.345	0.0334	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Antimony	**0.124**	**J**	0.345	0.0205	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Selenium	**0.139**	**J**	0.345	0.0856	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Thallium	**0.0521**	**J**	0.345	0.0412	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Uranium	**0.661**		0.172	0.0103	mg/Kg		08/24/22 10:15	08/25/22 21:49	2
Zinc	**7.46**		0.690	0.0763	mg/Kg		08/24/22 10:15	08/25/22 21:49	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		08/23/22 08:27	08/23/22 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**86.2**		60.3	29.9	ug/Kg		08/09/22 13:09	08/09/22 16:51	1
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**	**HF**			SU			08/11/22 14:11	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**212**	**H b**	5.00	5.00	mg/L			08/16/22 16:17	1

Method: 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	**1.27**		0.176	0.220	1.00	0.0986	pCi/g	08/04/22 15:24	08/25/22 06:59	1
Radium-228	0.0495	U	0.211	0.211		0.267	pCi/g	08/04/22 15:24	08/25/22 06:59	1
Combined Radium 226 + 228	**1.32**		0.275	0.305		0.267	pCi/g	08/04/22 15:24	08/25/22 06:59	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

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)
860-30420-1	Cell21-Square-62-S-3-4-220727	104	109	100	113
860-30420-2	Cell21-Square-42-S-3-4-220727	103	107	97	109
860-30420-2 MS	Cell21-Square-42-S-3-4-220727	105	110	99	103
LCS 860-63086/3	Lab Control Sample	95	109	99	99
LCSD 860-63086/4	Lab Control Sample Dup	99	108	97	102
MB 860-63086/8	Method Blank	101	109	97	106

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)
860-30420-1	Cell21-Square-62-S-3-4-220727	95
860-30420-2	Cell21-Square-42-S-3-4-220727	98
LCS 860-63953/4	Lab Control Sample	103
LCSD 860-63953/21	Lab Control Sample Dup	92
MB 860-63953/8	Method Blank	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

Method: 8270D - Pesticides by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		TPP
Lab Sample ID	Client Sample ID	(30-164)
860-30420-1	Cell21-Square-62-S-3-4-220727	76
860-30420-2	Cell21-Square-42-S-3-4-220727	79

Surrogate Legend

TPP = Triphenylphosphate

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)
860-30420-1	Cell21-Square-62-S-3-4-220727	76	74	58	65	74	87
860-30420-2	Cell21-Square-42-S-3-4-220727	68	66	48	57	65	84
LCS 860-63315/2-A	Lab Control Sample	79	77	78	74	80	91

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
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)
LCSD 860-63315/3-A	Lab Control Sample Dup	75	75	75	73	77	87
MB 860-63315/1-A	Method Blank	82	80	50	73	76	95

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
860-30420-1	Cell21-Square-62-S-3-4-220727	93	119
860-30420-2	Cell21-Square-42-S-3-4-220727	92	114
LCS 860-64061/2-A	Lab Control Sample	89	113
LCSD 860-64061/3-A	Lab Control Sample Dup	93	116
MB 860-64061/1-A	Method Blank	88	107

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(35-135)	(25-143)
860-30420-1	Cell21-Square-62-S-3-4-220727	82	80
860-30420-1 MS	Cell21-Square-62-S-3-4-220727	77	78
860-30420-1 MSD	Cell21-Square-62-S-3-4-220727	77	80
860-30420-2	Cell21-Square-42-S-3-4-220727	69	79
LCS 860-63911/2-A	Lab Control Sample	75	79
LCSD 860-63911/3-A	Lab Control Sample Dup	71	81
MB 860-63911/1-A	Method Blank	64	72

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

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)
860-30420-1	Cell21-Square-62-S-3-4-220727	91	99
860-30420-2	Cell21-Square-42-S-3-4-220727	79	93
LCS 860-63911/26-A	Lab Control Sample	92	102
LCSD 860-63911/27-A	Lab Control Sample Dup	85	103
MB 860-63911/1-A	Method Blank	75	90

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)
860-30420-1	Cell21-Square-62-S-3-4-220727	104
860-30420-2	Cell21-Square-42-S-3-4-220727	106
LCS 280-582759/2-A	Lab Control Sample	103
MB 280-582759/1-A	Method Blank	106

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: DV-LC-0012 - Fluorinated Alkyl Substances

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	C8PFOA (57-153)	C8PFOS (70-130)
860-30420-1	Cell21-Square-62-S-3-4-220727	104	104
860-30420-2	Cell21-Square-42-S-3-4-220727	103	103
DLCK 280-584623/13	Lab Control Sample	104	101
LCS 280-582854/2-A	Lab Control Sample	101	105
MB 280-582854/1-A	Method Blank	101	105

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: 860-30420-1

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

Lab Sample ID: MB 860-63086/8
Matrix: Solid
Analysis Batch: 63086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	39.0	U	50.0	39.0	ug/Kg			08/01/22 13:42	1
Acrylonitrile	9.07	U	20.0	9.07	ug/Kg			08/01/22 13:42	1
Benzene	0.733	U	1.00	0.733	ug/Kg			08/01/22 13:42	1
Bromodichloromethane	1.79	U	5.00	1.79	ug/Kg			08/01/22 13:42	1
Tribromomethane	2.21	U	5.00	2.21	ug/Kg			08/01/22 13:42	1
Bromomethane	2.42	U	5.00	2.42	ug/Kg			08/01/22 13:42	1
Methyl tert-butyl ether	1.98	U	5.00	1.98	ug/Kg			08/01/22 13:42	1
Carbon tetrachloride	1.81	U	5.00	1.81	ug/Kg			08/01/22 13:42	1
Monochlorobenzene	1.47	U	5.00	1.47	ug/Kg			08/01/22 13:42	1
Chloroform	1.70	U	5.00	1.70	ug/Kg			08/01/22 13:42	1
Chloromethane	2.86	U	5.00	2.86	ug/Kg			08/01/22 13:42	1
1,2-Dibromoethane	1.63	U	5.00	1.63	ug/Kg			08/01/22 13:42	1
1,2-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			08/01/22 13:42	1
1,3-Dichlorobenzene	1.45	U	5.00	1.45	ug/Kg			08/01/22 13:42	1
1,4-Dichlorobenzene	1.44	U	5.00	1.44	ug/Kg			08/01/22 13:42	1
Dichlorodifluoromethane	3.00	U	5.00	3.00	ug/Kg			08/01/22 13:42	1
1,1-Dichloroethane	1.64	U	5.00	1.64	ug/Kg			08/01/22 13:42	1
1,2-Dichloroethane	1.91	U	5.00	1.91	ug/Kg			08/01/22 13:42	1
1,1-Dichloroethene	1.78	U	5.00	1.78	ug/Kg			08/01/22 13:42	1
cis-1,2-Dichloroethene	1.49	U	5.00	1.49	ug/Kg			08/01/22 13:42	1
trans-1,2-Dichloroethene	1.59	U	5.00	1.59	ug/Kg			08/01/22 13:42	1
1,2-Dichloropropane	1.69	U	5.00	1.69	ug/Kg			08/01/22 13:42	1
cis-1,3-Dichloropropene	1.64	U	5.00	1.64	ug/Kg			08/01/22 13:42	1
trans-1,3-Dichloropropene	1.67	U	5.00	1.67	ug/Kg			08/01/22 13:42	1
1,1-Dichloropropene	1.75	U	5.00	1.75	ug/Kg			08/01/22 13:42	1
1,4-Dioxane	24.0	U	50.0	24.0	ug/Kg			08/01/22 13:42	1
Ethylbenzene	0.665	U	1.00	0.665	ug/Kg			08/01/22 13:42	1
Methylene Chloride	12.5	U	20.0	12.5	ug/Kg			08/01/22 13:42	1
Styrene	1.49	U	5.00	1.49	ug/Kg			08/01/22 13:42	1
1,1,2,2-Tetrachloroethane	0.164	U	5.00	0.164	ug/Kg			08/01/22 13:42	1
Tetrachloroethene	1.63	U	5.00	1.63	ug/Kg			08/01/22 13:42	1
Toluene	1.91	U	5.00	1.91	ug/Kg			08/01/22 13:42	1
1,2,4-Trichlorobenzene	2.00	U	5.00	2.00	ug/Kg			08/01/22 13:42	1
1,1,1-Trichloroethane	1.68	U	5.00	1.68	ug/Kg			08/01/22 13:42	1
1,1,2-Trichloroethane	1.62	U	5.00	1.62	ug/Kg			08/01/22 13:42	1
Trichloroethene	1.90	U	5.00	1.90	ug/Kg			08/01/22 13:42	1
Trichlorofluoromethane	1.78	U	5.00	1.78	ug/Kg			08/01/22 13:42	1
Vinyl chloride	1.85	U	5.00	1.85	ug/Kg			08/01/22 13:42	1
Xylenes, Total	0.900	U	2.00	0.900	ug/Kg			08/01/22 13:42	1
1,3-Dichloropropene, Total	1.67	U	5.00	1.67	ug/Kg			08/01/22 13:42	1
o-Xylene	0.900	U	1.00	0.900	ug/Kg			08/01/22 13:42	1
m,p-Xylenes	0.800	U	2.00	0.800	ug/Kg			08/01/22 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*53 - 142*		*08/01/22 13:42*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*08/01/22 13:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*		*08/01/22 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*		*08/01/22 13:42*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

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

Lab Sample ID: LCS 860-63086/3
Matrix: Solid
Analysis Batch: 63086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	250	167.5		ug/Kg		67	50 - 150
Acrylonitrile	500	428.1		ug/Kg		86	50 - 150
Benzene	50.0	40.76		ug/Kg		82	66 - 142
Bromodichloromethane	50.0	44.01		ug/Kg		88	78 - 130
Tribromomethane	50.0	49.34		ug/Kg		99	63 - 136
Bromomethane	50.0	35.79		ug/Kg		72	60 - 140
Methyl tert-butyl ether	50.0	42.07		ug/Kg		84	64 - 148
Carbon tetrachloride	50.0	41.18		ug/Kg		82	63 - 135
Monochlorobenzene	50.0	48.00		ug/Kg		96	83 - 130
Chloroform	50.0	43.45		ug/Kg		87	74 - 130
Chloromethane	50.0	51.32		ug/Kg		103	58 - 130
1,2-Dibromoethane	50.0	44.84		ug/Kg		90	73 - 130
1,2-Dichlorobenzene	50.0	53.33		ug/Kg		107	84 - 130
1,3-Dichlorobenzene	50.0	53.33		ug/Kg		107	84 - 130
1,4-Dichlorobenzene	50.0	52.05		ug/Kg		104	82 - 130
Dichlorodifluoromethane	50.0	57.06		ug/Kg		114	54 - 130
1,1-Dichloroethane	50.0	44.22		ug/Kg		88	73 - 130
1,2-Dichloroethane	50.0	41.34		ug/Kg		83	70 - 130
1,1-Dichloroethene	50.0	36.87		ug/Kg		74	68 - 130
cis-1,2-Dichloroethene	50.0	42.71		ug/Kg		85	72 - 131
trans-1,2-Dichloroethene	50.0	34.47		ug/Kg		69	63 - 130
1,2-Dichloropropane	50.0	43.51		ug/Kg		87	75 - 130
cis-1,3-Dichloropropene	50.0	42.42		ug/Kg		85	74 - 135
trans-1,3-Dichloropropene	50.0	45.02		ug/Kg		90	73 - 130
1,1-Dichloropropene	50.0	37.49		ug/Kg		75	72 - 130
1,4-Dioxane	1000	761.2		ug/Kg		76	65 - 135
Ethylbenzene	50.0	45.87		ug/Kg		92	80 - 130
Methylene Chloride	50.0	37.36		ug/Kg		75	57 - 134
Styrene	50.0	48.83		ug/Kg		98	80 - 130
1,1,2,2-Tetrachloroethane	50.0	49.84		ug/Kg		100	75 - 133
Tetrachloroethene	50.0	42.52		ug/Kg		85	79 - 130
Toluene	50.0	44.04		ug/Kg		88	74 - 130
1,2,4-Trichlorobenzene	50.0	53.72		ug/Kg		107	79 - 130
1,1,1-Trichloroethane	50.0	43.35		ug/Kg		87	71 - 130
1,1,2-Trichloroethane	50.0	47.72		ug/Kg		95	75 - 131
Trichloroethene	50.0	40.02		ug/Kg		80	78 - 130
Trichlorofluoromethane	50.0	46.47		ug/Kg		93	71 - 148
Vinyl chloride	50.0	46.34		ug/Kg		93	60 - 130
Xylenes, Total	100	91.85		ug/Kg		92	70 - 130
1,3-Dichloropropene, Total	100	87.44		ug/Kg		87	60 - 140
o-Xylene	50.0	47.17		ug/Kg		94	79 - 130
m,p-Xylenes	50.0	44.68		ug/Kg		89	78 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*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: 860-30420-1

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

Lab Sample ID: LCSD 860-63086/4
Matrix: Solid
Analysis Batch: 63086

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	208.3		ug/Kg		83	50 - 150	22	25
Acrylonitrile			500	506.9		ug/Kg		101	50 - 150	17	25
Benzene			50.0	44.55		ug/Kg		89	66 - 142	9	25
Bromodichloromethane			50.0	51.16		ug/Kg		102	78 - 130	15	25
Tribromomethane			50.0	60.46		ug/Kg		121	63 - 136	20	25
Bromomethane			50.0	38.62		ug/Kg		77	60 - 140	8	25
Methyl tert-butyl ether			50.0	48.30		ug/Kg		97	64 - 148	14	25
Carbon tetrachloride			50.0	45.68		ug/Kg		91	63 - 135	10	25
Monochlorobenzene			50.0	53.02		ug/Kg		106	83 - 130	10	25
Chloroform			50.0	49.71		ug/Kg		99	74 - 130	13	25
Chloromethane			50.0	48.38		ug/Kg		97	58 - 130	6	25
1,2-Dibromoethane			50.0	53.09		ug/Kg		106	73 - 130	17	25
1,2-Dichlorobenzene			50.0	56.96		ug/Kg		114	84 - 130	7	25
1,3-Dichlorobenzene			50.0	57.80		ug/Kg		116	84 - 130	8	25
1,4-Dichlorobenzene			50.0	57.98		ug/Kg		116	82 - 130	11	25
Dichlorodifluoromethane			50.0	51.84		ug/Kg		104	54 - 130	10	25
1,1-Dichloroethane			50.0	48.52		ug/Kg		97	73 - 130	9	25
1,2-Dichloroethane			50.0	48.64		ug/Kg		97	70 - 130	16	25
1,1-Dichloroethene			50.0	42.81		ug/Kg		86	68 - 130	15	25
cis-1,2-Dichloroethene			50.0	47.59		ug/Kg		95	72 - 131	11	25
trans-1,2-Dichloroethene			50.0	39.26		ug/Kg		79	63 - 130	13	25
1,2-Dichloropropane			50.0	49.94		ug/Kg		100	75 - 130	14	25
cis-1,3-Dichloropropene			50.0	47.25		ug/Kg		95	74 - 135	11	25
trans-1,3-Dichloropropene			50.0	53.04		ug/Kg		106	73 - 130	16	25
1,1-Dichloropropene			50.0	42.85		ug/Kg		86	72 - 130	13	25
1,4-Dioxane			1000	847.9		ug/Kg		85	65 - 135	11	25
Ethylbenzene			50.0	51.38		ug/Kg		103	80 - 130	11	25
Methylene Chloride			50.0	40.25		ug/Kg		81	57 - 134	7	25
Styrene			50.0	56.34		ug/Kg		113	80 - 130	14	25
1,1,2,2-Tetrachloroethane			50.0	58.77		ug/Kg		118	75 - 133	16	25
Tetrachloroethene			50.0	47.06		ug/Kg		94	79 - 130	10	25
Toluene			50.0	51.64		ug/Kg		103	74 - 130	16	25
1,2,4-Trichlorobenzene			50.0	60.13		ug/Kg		120	79 - 130	11	25
1,1,1-Trichloroethane			50.0	48.78		ug/Kg		98	71 - 130	12	25
1,1,2-Trichloroethane			50.0	55.19		ug/Kg		110	75 - 131	15	25
Trichloroethene			50.0	44.12		ug/Kg		88	78 - 130	10	25
Trichlorofluoromethane			50.0	49.85		ug/Kg		100	71 - 148	7	25
Vinyl chloride			50.0	44.52		ug/Kg		89	60 - 130	4	25
Xylenes, Total			100	101.6		ug/Kg		102	70 - 130	10	25
1,3-Dichloropropene, Total			100	100.3		ug/Kg		100	60 - 140	14	25
o-Xylene			50.0	52.12		ug/Kg		104	79 - 130	10	25
m,p-Xylenes			50.0	49.52		ug/Kg		99	78 - 130	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

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

Lab Sample ID: 860-30420-2 MS
Matrix: Solid
Analysis Batch: 63086

Client Sample ID: Cell21-Square-42-S-3-4-220727
Prep Type: Total/NA
Prep Batch: 63142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	39.4	U	250	194.6		ug/Kg		78	50 - 150
Acrylonitrile	9.16	U	500	575.5		ug/Kg		115	50 - 150
Benzene	0.740	U	50.0	45.25		ug/Kg		90	71 - 119
Bromodichloromethane	1.80	U	50.0	49.00		ug/Kg		98	78 - 126
Tribromomethane	2.23	U	50.0	60.69		ug/Kg		121	63 - 136
Bromomethane	2.45	U	50.0	37.70		ug/Kg		75	73 - 126
Methyl tert-butyl ether	2.00	U	50.0	51.64		ug/Kg		103	64 - 148
Carbon tetrachloride	1.83	U	50.0	46.51		ug/Kg		93	63 - 135
Monochlorobenzene	1.49	U	50.0	51.82		ug/Kg		104	83 - 121
Chloroform	1.72	U	50.0	50.66		ug/Kg		101	74 - 118
Chloromethane	2.88	U	50.0	45.32		ug/Kg		91	58 - 110
1,2-Dibromoethane	1.65	U	50.0	53.35		ug/Kg		107	73 - 125
1,2-Dichlorobenzene	1.47	U	50.0	58.06		ug/Kg		116	84 - 121
1,3-Dichlorobenzene	1.47	U	50.0	56.52		ug/Kg		113	84 - 124
1,4-Dichlorobenzene	1.45	U	50.0	55.71		ug/Kg		111	82 - 120
Dichlorodifluoromethane	3.03	U	50.0	49.00		ug/Kg		98	54 - 122
1,1-Dichloroethane	1.65	U	50.0	49.18		ug/Kg		98	73 - 124
1,2-Dichloroethane	1.93	U	50.0	49.09		ug/Kg		98	70 - 123
1,1-Dichloroethene	1.79	U	50.0	39.95		ug/Kg		80	68 - 119
cis-1,2-Dichloroethene	1.51	U	50.0	48.88		ug/Kg		98	72 - 131
trans-1,2-Dichloroethene	1.60	U	50.0	38.37		ug/Kg		77	63 - 110
1,2-Dichloropropane	1.71	U	50.0	49.67		ug/Kg		99	75 - 122
cis-1,3-Dichloropropene	1.65	U	50.0	46.33		ug/Kg		93	74 - 135
trans-1,3-Dichloropropene	1.68	U	50.0	52.14		ug/Kg		104	73 - 125
1,1-Dichloropropene	1.76	U	50.0	42.49		ug/Kg		85	72 - 118
1,4-Dioxane	24.3	U	1000	1104		ug/Kg		110	65 - 135
Ethylbenzene	0.672	U	50.0	49.53		ug/Kg		99	80 - 123
Methylene Chloride	12.6	U	50.0	42.76		ug/Kg		86	57 - 134
Styrene	1.51	U	50.0	54.03		ug/Kg		108	80 - 126
1,1,2,2-Tetrachloroethane	0.166	U	50.0	59.53		ug/Kg		119	75 - 133
Tetrachloroethene	1.64	U	50.0	44.14		ug/Kg		88	79 - 124
Toluene	1.93	U	50.0	50.85		ug/Kg		102	74 - 122
1,2,4-Trichlorobenzene	2.02	U	50.0	56.84		ug/Kg		114	79 - 128
1,1,1-Trichloroethane	1.69	U	50.0	49.13		ug/Kg		98	71 - 124
1,1,2-Trichloroethane	1.64	U	50.0	56.67		ug/Kg		113	75 - 131
Trichloroethene	1.92	U	50.0	44.98		ug/Kg		90	78 - 119
Trichlorofluoromethane	1.80	U	50.0	49.46		ug/Kg		99	71 - 148
Vinyl chloride	1.86	U	50.0	41.77		ug/Kg		84	60 - 123
Xylenes, Total	0.909	U	100	99.68		ug/Kg		100	60 - 140
1,3-Dichloropropene, Total	1.68	U	100	98.47		ug/Kg		98	60 - 140
o-Xylene	0.909	U	50.0	51.17		ug/Kg		102	79 - 125
m,p-Xylenes	0.808	U	50.0	48.51		ug/Kg		97	78 - 127

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-63953/8
Matrix: Solid
Analysis Batch: 63953

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			08/08/22 18:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*08/08/22 18:37*	*1*

Lab Sample ID: LCS 860-63953/4
Matrix: Solid
Analysis Batch: 63953

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	0.05198		mg/Kg		104	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*

Lab Sample ID: LCSD 860-63953/21
Matrix: Solid
Analysis Batch: 63953

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	0.04876		mg/Kg		98	65 - 135	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*63 - 144*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-63315/1-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63315

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		08/02/22 15:39	08/03/22 11:01	1
1,2,4,5-Tetrachlorobenzene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
1-Methylnaphthalene	26.7	U	167	26.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
bis (2-chloroisopropyl) ether	17.8	U	167	17.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2,4,5-Trichlorophenol	19.1	U	167	19.1	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2,4,6-Trichlorophenol	15.8	U	167	15.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2,4-Dinitrotoluene	12.7	U	167	12.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Dinitrophenols	24.2	U	333	24.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2,4-Dichlorophenol	17.4	U	167	17.4	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2,6-Dinitrotoluene	23.3	U	167	23.3	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Dichlorobenzidine, 3,3'-	15.4	U	333	15.4	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
4,6-Dinitro-2-methylphenol	12.7	U	333	12.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Acenaphthene	15.5	U	167	15.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Anthracene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Acenaphthylene	14.8	U	167	14.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-63315/1-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Benzo[b]fluoranthene	12.6	U	167	12.6	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Benzo[k]fluoranthene	19.4	U	167	19.4	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Benzo[g,h,i]perylene	15.4	U	167	15.4	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Benzo[a]pyrene	17.2	U	167	17.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Di (2-ethylhexyl)phthalate	167	U	333	167	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Bis(2-chloroethyl)ether	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Chrysene	16.5	U	167	16.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Dibutylphthalate	16.0	U	167	16.0	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Dibenz(a,h)anthracene	12.7	U	167	12.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Diethyl phthalate	15.3	U	167	15.3	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Dimethyl phthalate	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Fluoranthene	14.7	U	167	14.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Fluorene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Hexachlorobenzene	16.2	U	167	16.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Hexachlorobutadiene	13.8	U	167	13.8	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Hexachlorocyclopentadiene	15.2	U	167	15.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Hexachloroethane	17.3	U	167	17.3	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Indeno[1,2,3-cd]pyrene	13.4	U	167	13.4	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Isophorone	14.5	U	167	14.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
N-Nitrosodi-n-butylamine	25.3	U	167	25.3	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
N-Nitrosodiethylamine	21.9	U	167	21.9	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
N-Nitrosodiphenylamine	18.6	U	167	18.6	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
N-Nitrosopyrrolidine	14.1	U	167	14.1	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Pentachlorobenzene	15.9	U	167	15.9	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Pentachlorophenol	12.1	U	333	12.1	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Phenanthrene	16.6	U	167	16.6	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Pyrene	14.6	U	167	14.6	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Naphthalene	15.6	U	167	15.6	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
2-Methylnaphthalene	45.2	U	167	45.2	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Nitrobenzene	18.5	U	167	18.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Benzidine	12.1	U	333	12.1	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Phenol	0.0150	U	0.333	0.0150	mg/Kg		08/02/22 15:39	08/03/22 11:01	1
N-Nitrosodimethylamine	16.7	U	167	16.7	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Atrazine	16.5	U	333	16.5	ug/Kg		08/02/22 15:39	08/03/22 11:01	1
Thiophene, tetrahydro-, 1,1-dioxide	333	U	333	333	ug/Kg		08/02/22 15:39	08/03/22 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*30 - 115*	*08/02/22 15:39*	*08/03/22 11:01*	*1*
2-Fluorophenol	*80*		*25 - 121*	*08/02/22 15:39*	*08/03/22 11:01*	*1*
2,4,6-Tribromophenol	*50*		*19 - 122*	*08/02/22 15:39*	*08/03/22 11:01*	*1*
Nitrobenzene-d5	*73*		*23 - 129*	*08/02/22 15:39*	*08/03/22 11:01*	*1*
Phenol-d5 (Surr)	*76*		*24 - 113*	*08/02/22 15:39*	*08/03/22 11:01*	*1*
p-Terphenyl-d14 (Surr)	*95*		*18 - 137*	*08/02/22 15:39*	*08/03/22 11:01*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-63315/2-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63315

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine(as Azobenzene)	1330	1072		ug/Kg		80	20 - 157
1,2,4,5-Tetrachlorobenzene	1330	1018		ug/Kg		76	35 - 135
1-Methylnaphthalene	1330	1112		ug/Kg		83	38 - 127
bis (2-chloroisopropyl) ether	1330	924.9		ug/Kg		69	25 - 124
2,4,5-Trichlorophenol	1330	1014		ug/Kg		76	40 - 135
2,4,6-Trichlorophenol	1330	1000		ug/Kg		75	39 - 139
2,4-Dinitrotoluene	1330	1181		ug/Kg		89	48 - 131
Dinitrophenols	1330	824.3		ug/Kg		62	19 - 131
2,4-Dichlorophenol	1330	1177		ug/Kg		88	36 - 135
2,6-Dinitrotoluene	1330	1133		ug/Kg		85	42 - 136
Dichlorobenzidine, 3,3'-	1330	974.4		ug/Kg		73	35 - 134
4,6-Dinitro-2-methylphenol	1330	1033		ug/Kg		77	30 - 146
Acenaphthene	1330	1075		ug/Kg		81	37 - 131
Anthracene	1330	1226		ug/Kg		92	39 - 139
Acenaphthylene	1330	1144		ug/Kg		86	39 - 129
Benzo[a]anthracene	1330	1157		ug/Kg		87	44 - 135
Benzo[b]fluoranthene	1330	1040		ug/Kg		78	40 - 153
Benzo[k]fluoranthene	1330	1234		ug/Kg		93	33 - 156
Benzo[g,h,i]perylene	1330	1211		ug/Kg		91	40 - 153
Benzo[a]pyrene	1330	1064		ug/Kg		80	43 - 153
Di (2-ethylhexyl)phthalate	1330	1087		ug/Kg		82	46 - 145
Bis(2-chloroethyl)ether	1330	1004		ug/Kg		75	33 - 127
Chrysene	1330	1204		ug/Kg		90	42 - 135
Dibutylphthalate	1330	1189		ug/Kg		89	43 - 142
Dibenz(a,h)anthracene	1330	1087		ug/Kg		81	41 - 155
Diethyl phthalate	1330	1219		ug/Kg		91	45 - 131
Dimethyl phthalate	1330	1174		ug/Kg		88	43 - 132
Fluoranthene	1330	1286		ug/Kg		96	41 - 138
Fluorene	1330	1171		ug/Kg		88	41 - 131
Hexachlorobenzene	1330	1116		ug/Kg		84	36 - 142
Hexachlorobutadiene	1330	1018		ug/Kg		76	35 - 129
Hexachlorocyclopentadiene	1330	838.0		ug/Kg		63	16 - 106
Hexachloroethane	1330	975.3		ug/Kg		73	36 - 121
Indeno[1,2,3-cd]pyrene	1330	1093		ug/Kg		82	39 - 154
Isophorone	1330	1058		ug/Kg		79	36 - 128
N-Nitrosodi-n-butylamine	1330	1205		ug/Kg		90	34 - 135
N-Nitrosodiethylamine	1330	1003		ug/Kg		75	36 - 127
N-Nitrosodiphenylamine	1330	1184		ug/Kg		89	27 - 155
N-Nitrosopyrrolidine	1330	1093		ug/Kg		82	38 - 136
Pentachlorobenzene	1330	1072		ug/Kg		80	38 - 136
Pentachlorophenol	1330	832.0		ug/Kg		62	14 - 148
Phenanthrene	1330	1139		ug/Kg		85	37 - 139
Pyrene	1330	1231		ug/Kg		92	42 - 138
Naphthalene	1330	1032		ug/Kg		77	35 - 128
2-Methylnaphthalene	1330	1103		ug/Kg		83	36 - 126
Nitrobenzene	1330	997.1		ug/Kg		75	32 - 129
Benzidine	1330	523.7		ug/Kg		39	12 - 112
Phenol	1.33	1.034		mg/Kg		78	34 - 127

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-63315/2-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
N-Nitrosodimethylamine			1330	874.8		ug/Kg		66	27 - 126		
Atrazine			1330	1269		ug/Kg		95	18 - 134		
Thiophene, tetrahydro-, 1,1-dioxide			1330	1397		ug/Kg		105	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*30 - 115*
2-Fluorophenol	*77*		*25 - 121*
2,4,6-Tribromophenol	*78*		*19 - 122*
Nitrobenzene-d5	*74*		*23 - 129*
Phenol-d5 (Surr)	*80*		*24 - 113*
p-Terphenyl-d14 (Surr)	*91*		*18 - 137*

Lab Sample ID: LCSD 860-63315/3-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63315

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine(as Azobenzene)			1330	1052		ug/Kg		79	20 - 157	2	30
1,2,4,5-Tetrachlorobenzene			1330	987.9		ug/Kg		74	35 - 135	3	30
1-Methylnaphthalene			1330	1091		ug/Kg		82	38 - 127	2	30
bis (2-chloroisopropyl) ether			1330	906.2		ug/Kg		68	25 - 124	2	30
2,4,5-Trichlorophenol			1330	1047		ug/Kg		79	40 - 135	3	30
2,4,6-Trichlorophenol			1330	1001		ug/Kg		75	39 - 139	0	30
2,4-Dinitrotoluene			1330	1153		ug/Kg		87	48 - 131	2	30
Dinitrophenols			1330	869.1		ug/Kg		65	19 - 131	5	40
2,4-Dichlorophenol			1330	1159		ug/Kg		87	36 - 135	2	30
2,6-Dinitrotoluene			1330	1120		ug/Kg		84	42 - 136	1	30
Dichlorobenzidine, 3,3'-			1330	977.2		ug/Kg		73	35 - 134	0	40
4,6-Dinitro-2-methylphenol			1330	1032		ug/Kg		77	30 - 146	0	40
Acenaphthene			1330	1060		ug/Kg		80	37 - 131	1	30
Anthracene			1330	1199		ug/Kg		90	39 - 139	2	30
Acenaphthylene			1330	1129		ug/Kg		85	39 - 129	1	30
Benzo[a]anthracene			1330	1135		ug/Kg		85	44 - 135	2	30
Benzo[b]fluoranthene			1330	1049		ug/Kg		79	40 - 153	1	30
Benzo[k]fluoranthene			1330	1175		ug/Kg		88	33 - 156	5	30
Benzo[g,h,i]perylene			1330	1198		ug/Kg		90	40 - 153	1	30
Benzo[a]pyrene			1330	1064		ug/Kg		80	43 - 153	0	30
Di (2-ethylhexyl)phthalate			1330	1045		ug/Kg		78	46 - 145	4	30
Bis(2-chloroethyl)ether			1330	1004		ug/Kg		75	33 - 127	0	30
Chrysene			1330	1157		ug/Kg		87	42 - 135	4	30
Dibutylphthalate			1330	1170		ug/Kg		88	43 - 142	2	30
Dibenz(a,h)anthracene			1330	1070		ug/Kg		80	41 - 155	2	30
Diethyl phthalate			1330	1198		ug/Kg		90	45 - 131	2	30
Dimethyl phthalate			1330	1148		ug/Kg		86	43 - 132	2	30
Fluoranthene			1330	1263		ug/Kg		95	41 - 138	2	30
Fluorene			1330	1151		ug/Kg		86	41 - 131	2	30
Hexachlorobenzene			1330	1091		ug/Kg		82	36 - 142	2	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-63315/3-A
Matrix: Solid
Analysis Batch: 63366

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63315

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene			1330	1006		ug/Kg		75	35 - 129	1	30
Hexachlorocyclopentadiene			1330	845.1		ug/Kg		63	16 - 106	1	30
Hexachloroethane			1330	954.2		ug/Kg		72	36 - 121	2	30
Indeno[1,2,3-cd]pyrene			1330	1137		ug/Kg		85	39 - 154	4	30
Isophorone			1330	1041		ug/Kg		78	36 - 128	2	30
N-Nitrosodi-n-butylamine			1330	1205		ug/Kg		90	34 - 135	0	30
N-Nitrosodiethylamine			1330	1011		ug/Kg		76	36 - 127	1	30
N-Nitrosodiphenylamine			1330	1150		ug/Kg		86	27 - 155	3	30
N-Nitrosopyrrolidine			1330	1083		ug/Kg		81	38 - 136	1	30
Pentachlorobenzene			1330	1062		ug/Kg		80	38 - 136	1	30
Pentachlorophenol			1330	863.6		ug/Kg		65	14 - 148	4	40
Phenanthrene			1330	1111		ug/Kg		83	37 - 139	2	30
Pyrene			1330	1199		ug/Kg		90	42 - 138	3	30
Naphthalene			1330	1000		ug/Kg		75	35 - 128	3	30
2-Methylnaphthalene			1330	1083		ug/Kg		81	36 - 126	2	30
Nitrobenzene			1330	967.3		ug/Kg		73	32 - 129	3	30
Benzidine			1330	551.9		ug/Kg		41	12 - 112	5	40
Phenol			1.33	1.035		mg/Kg		78	34 - 127	0	40
N-Nitrosodimethylamine			1330	881.1		ug/Kg		66	27 - 126	1	30
Atrazine			1330	1253		ug/Kg		94	18 - 134	1	40
Thiophene, tetrahydro-, 1,1-dioxide			1330	1361		ug/Kg		102	30 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*30 - 115*
2-Fluorophenol	*75*		*25 - 121*
2,4,6-Tribromophenol	*75*		*19 - 122*
Nitrobenzene-d5	*73*		*23 - 129*
Phenol-d5 (Surr)	*77*		*24 - 113*
p-Terphenyl-d14 (Surr)	*87*		*18 - 137*

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

Lab Sample ID: MB 860-64061/1-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1
Diesel Range Organics (Over C10-C28)	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1
Oil Range Organics (Over C28-C36)	21.1	U	50.0	21.1	mg/Kg		08/08/22 17:02	08/08/22 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*65 - 130*	*08/08/22 17:02*	*08/08/22 18:41*	*1*
o-Terphenyl (Surr)	*107*		*65 - 130*	*08/08/22 17:02*	*08/08/22 18:41*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

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

Lab Sample ID: LCS 860-64061/2-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64061

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			999	1218		mg/Kg		122	70 - 135		
Diesel Range Organics (Over C10-C28)			1000	1131		mg/Kg		113	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*65 - 130*
o-Terphenyl (Surr)	*113*		*65 - 130*

Lab Sample ID: LCSD 860-64061/3-A
Matrix: Solid
Analysis Batch: 63960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	1334		mg/Kg		134	70 - 135	9	35
Diesel Range Organics (Over C10-C28)			1000	1186		mg/Kg		119	70 - 135	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*65 - 130*
o-Terphenyl (Surr)	*116*		*65 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-63911/1-A
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DDT	0.254	U	0.833	0.254	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Aldrin	0.363	U	0.833	0.363	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Hexachlorocyclohexane, alpha-	0.680	U	0.833	0.680	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Hexachlorocyclohexane, beta-	0.474	U	0.833	0.474	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Chlordane (technical)	23.9	U	41.7	23.9	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Hexachlorocyclohexane, delta-	0.833	U	0.833	0.833	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Dieldrin	0.169	U	0.833	0.169	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Endosulfan I	0.202	U	0.833	0.202	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Endosulfan II	0.372	U	0.833	0.372	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Endosulfan sulfate	0.276	U	0.833	0.276	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Endrin	0.291	U	0.833	0.291	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Endrin aldehyde	0.247	U	0.833	0.247	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Hexachlorocyclohexane, gamma-	0.439	U	0.833	0.439	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Heptachlor	0.562	U	0.833	0.562	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Heptachlor epoxide	0.245	U	0.833	0.245	ug/Kg		08/08/22 06:30	08/08/22 15:01	1
Toxaphene	11.3	U	16.7	11.3	ug/Kg		08/08/22 06:30	08/08/22 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*35 - 135*	*08/08/22 06:30*	*08/08/22 15:01*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-63911/1-A
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63911

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	72		25 - 143	08/08/22 06:30	08/08/22 15:01	1

Lab Sample ID: LCS 860-63911/2-A
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	16.7	14.30		ug/Kg		86	13 - 192
Aldrin	16.7	13.25		ug/Kg		79	30 - 152
Hexachlorocyclohexane, alpha-	16.7	13.79		ug/Kg		83	29 - 160
Hexachlorocyclohexane, beta-	16.7	12.81		ug/Kg		77	30 - 155
Hexachlorocyclohexane, delta-	16.7	14.22		ug/Kg		85	20 - 161
Dieldrin	16.7	14.94		ug/Kg		90	33 - 153
Endosulfan I	16.7	13.95		ug/Kg		84	30 - 151
Endosulfan II	16.7	15.51		ug/Kg		93	27 - 153
Endosulfan sulfate	16.7	14.08		ug/Kg		84	15 - 170
Endrin	16.7	16.77		ug/Kg		101	25 - 162
Endrin aldehyde	16.7	14.33		ug/Kg		86	49 - 117
Hexachlorocyclohexane, gamma-	16.7	13.33		ug/Kg		80	30 - 158
Heptachlor	16.7	12.48		ug/Kg		75	29 - 163
Heptachlor epoxide	16.7	13.85		ug/Kg		83	30 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	75		35 - 135
DCB Decachlorobiphenyl (Surr)	79		25 - 143

Lab Sample ID: LCSD 860-63911/3-A
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	16.7	15.29		ug/Kg		92	13 - 192	7	25
Aldrin	16.7	12.54		ug/Kg		75	30 - 152	6	25
Hexachlorocyclohexane, alpha-	16.7	13.06		ug/Kg		78	29 - 160	5	25
Hexachlorocyclohexane, beta-	16.7	12.87		ug/Kg		77	30 - 155	0	25
Hexachlorocyclohexane, delta-	16.7	14.42		ug/Kg		87	20 - 161	1	25
Dieldrin	16.7	15.25		ug/Kg		92	33 - 153	2	25
Endosulfan I	16.7	14.09		ug/Kg		85	30 - 151	1	25
Endosulfan II	16.7	16.14		ug/Kg		97	27 - 153	4	25
Endosulfan sulfate	16.7	14.95		ug/Kg		90	15 - 170	6	25
Endrin	16.7	17.32		ug/Kg		104	25 - 162	3	25
Endrin aldehyde	16.7	14.98		ug/Kg		90	49 - 117	4	25
Hexachlorocyclohexane, gamma-	16.7	13.05		ug/Kg		78	30 - 158	2	25
Heptachlor	16.7	12.06		ug/Kg		72	29 - 163	3	25
Heptachlor epoxide	16.7	13.63		ug/Kg		82	30 - 150	2	25

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-63911/3-A
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63911

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	71		35 - 135
DCB Decachlorobiphenyl (Surr)	81		25 - 143

Lab Sample ID: 860-30420-1 MS
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Cell21-Square-62-S-3-4-220727
Prep Type: Total/NA
Prep Batch: 63911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
DDT	0.254	U	16.7	13.86		ug/Kg		83	13 - 192
Aldrin	0.362	U	16.7	13.02		ug/Kg		78	30 - 152
Hexachlorocyclohexane, alpha-	0.679	U	16.7	13.40		ug/Kg		80	29 - 160
Hexachlorocyclohexane, beta-	0.473	U	16.7	12.90		ug/Kg		77	30 - 155
Hexachlorocyclohexane, delta-	0.832	U	16.7	13.95		ug/Kg		84	20 - 161
Dieldrin	0.169	U	16.7	14.74		ug/Kg		88	33 - 153
Endosulfan I	0.202	U	16.7	13.94		ug/Kg		84	30 - 151
Endosulfan II	0.372	U	16.7	15.06		ug/Kg		90	27 - 153
Endosulfan sulfate	0.276	U	16.7	14.10		ug/Kg		85	15 - 170
Endrin	0.291	U	16.7	16.67		ug/Kg		100	25 - 162
Endrin aldehyde	0.247	U	16.7	12.76		ug/Kg		77	49 - 117
Hexachlorocyclohexane, gamma-	0.438	U	16.7	13.39		ug/Kg		80	30 - 158
Heptachlor	0.562	U	16.7	12.60		ug/Kg		76	29 - 163
Heptachlor epoxide	0.245	U	16.7	13.49		ug/Kg		81	30 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	77		35 - 135
DCB Decachlorobiphenyl (Surr)	78		25 - 143

Lab Sample ID: 860-30420-1 MSD
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Cell21-Square-62-S-3-4-220727
Prep Type: Total/NA
Prep Batch: 63911

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
DDT	0.254	U	16.6	14.09		ug/Kg		85	13 - 192	2	25
Aldrin	0.362	U	16.6	13.07		ug/Kg		79	30 - 152	0	25
Hexachlorocyclohexane, alpha-	0.679	U	16.6	13.89		ug/Kg		83	29 - 160	4	25
Hexachlorocyclohexane, beta-	0.473	U	16.6	12.97		ug/Kg		78	30 - 155	1	25
Hexachlorocyclohexane, delta-	0.832	U	16.6	14.09		ug/Kg		85	20 - 161	1	25
Dieldrin	0.169	U	16.6	14.92		ug/Kg		90	33 - 153	1	25
Endosulfan I	0.202	U	16.6	14.18		ug/Kg		85	30 - 151	2	25
Endosulfan II	0.372	U	16.6	15.31		ug/Kg		92	27 - 153	2	25
Endosulfan sulfate	0.276	U	16.6	14.25		ug/Kg		86	15 - 170	1	25
Endrin	0.291	U	16.6	16.93		ug/Kg		102	25 - 162	2	25
Endrin aldehyde	0.247	U	16.6	12.67		ug/Kg		76	49 - 117	1	25
Hexachlorocyclohexane, gamma-	0.438	U	16.6	13.97		ug/Kg		84	30 - 158	4	25
Heptachlor	0.562	U	16.6	12.93		ug/Kg		78	29 - 163	3	25
Heptachlor epoxide	0.245	U	16.6	13.68		ug/Kg		82	30 - 150	1	25

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 860-30420-1 MSD
Matrix: Solid
Analysis Batch: 63984

Client Sample ID: Cell21-Square-62-S-3-4-220727
Prep Type: Total/NA
Prep Batch: 63911

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	77		35 - 135
DCB Decachlorobiphenyl (Surr)	80		25 - 143

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-63911/1-A
Matrix: Solid
Analysis Batch: 63930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1221	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1232	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1242	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1248	0.00395	U	0.0167	0.00395	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1254	0.00261	U	0.0167	0.00261	mg/Kg		08/08/22 06:30	08/08/22 19:54	1
Aroclor 1260	0.00261	U	0.0167	0.00261	mg/Kg		08/08/22 06:30	08/08/22 19:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		35 - 140	08/08/22 06:30	08/08/22 19:54	1
DCB Decachlorobiphenyl (Surr)	90		37 - 142	08/08/22 06:30	08/08/22 19:54	1

Lab Sample ID: LCS 860-63911/26-A
Matrix: Solid
Analysis Batch: 63930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.167	0.1488		mg/Kg		89	27 - 121		
Aroclor 1260			0.167	0.1572		mg/Kg		94	27 - 139		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	92		35 - 140
DCB Decachlorobiphenyl (Surr)	102		37 - 142

Lab Sample ID: LCSD 860-63911/27-A
Matrix: Solid
Analysis Batch: 63930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63911

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.166	0.1434		mg/Kg		86	27 - 121	4	20
Aroclor 1260			0.166	0.1585		mg/Kg		95	27 - 139	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	85		35 - 140
DCB Decachlorobiphenyl (Surr)	103		37 - 142

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-582759/1-A
Matrix: Solid
Analysis Batch: 582877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582759

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		08/02/22 17:50	08/03/22 15:18	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/02/22 17:50	08/03/22 15:18	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/02/22 17:50	08/03/22 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*		*83 - 122*	*08/02/22 17:50*	*08/03/22 15:18*	*1*

Lab Sample ID: LCS 280-582759/2-A
Matrix: Solid
Analysis Batch: 582877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582759

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	0.9591		mg/Kg		96	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	0.9899		mg/Kg		99	80 - 124
2,4,6-Trinitrotoluene	1.00	1.029		mg/Kg		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-66062/1-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.53	U	9.98	3.53	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrate as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Fluoride	0.998	U	4.99	0.998	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrite as N	0.0499	U	0.998	0.0499	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Nitrate Nitrite as N	0.108	U	0.998	0.108	mg/Kg		08/22/22 14:59	08/23/22 01:58	1
Sulfate	4.31	U	9.98	4.31	mg/Kg		08/22/22 14:59	08/23/22 01:58	1

Lab Sample ID: LCS 860-66062/2-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	99.4	98.04		mg/Kg		99	80 - 120
Nitrate as N	99.4	99.96		mg/Kg		101	80 - 120
Fluoride	99.4	105.8		mg/Kg		106	80 - 120
Nitrite as N	49.7	50.38		mg/Kg		101	80 - 120
Nitrate Nitrite as N	149	150.3		mg/Kg		101	80 - 120
Sulfate	99.4	95.38		mg/Kg		96	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-66062/3-A
Matrix: Solid
Analysis Batch: 66118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66062

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			99.8	98.49		mg/Kg		99	80 - 120	0	20
Nitrate as N			99.8	100.1		mg/Kg		100	80 - 120	0	20
Fluoride			99.8	106.8		mg/Kg		107	80 - 120	1	20
Nitrite as N			49.9	50.77		mg/Kg		102	80 - 120	1	20
Nitrate Nitrite as N			150	150.9		mg/Kg		101	80 - 120	0	20
Sulfate			99.8	95.59		mg/Kg		96	80 - 120	0	20

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: DLCK 280-582514/12
Matrix: Solid
Analysis Batch: 582514

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

Analyte			Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec Limits		
Perchlorate			0.0500	0.05392		ug/L		108	70 - 130		

Lab Sample ID: MB 280-582681/1-A
Matrix: Solid
Analysis Batch: 582885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582681

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/02/22 14:51	08/03/22 12:13	1

Lab Sample ID: LCS 280-582681/2-A
Matrix: Solid
Analysis Batch: 582885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582681

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perchlorate			0.500	0.5309		ug/Kg		106	80 - 120		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: MB 280-582854/1-A
Matrix: Solid
Analysis Batch: 584624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.230	U	0.800	0.230	ug/Kg		08/03/22 13:27	08/20/22 08:53	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/03/22 13:27	08/20/22 08:53	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/03/22 13:27	08/20/22 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*08/03/22 13:27*	*08/20/22 08:53*	*1*
13C8 PFOS	*105*		*70 - 130*	*08/03/22 13:27*	*08/20/22 08:53*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 280-582854/2-A
Matrix: Solid
Analysis Batch: 584624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	18.9	18.00		ug/Kg		95	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.12		ug/Kg		94	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	16.77		ug/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*105*		*70 - 130*

Lab Sample ID: DLCK 280-584623/13
Matrix: Solid
Analysis Batch: 584623

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

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	0.472	0.490	U	ug/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4863	J	ug/L		107	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		107	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*104*		*57 - 153*
13C8 PFOS	*101*		*70 - 130*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-66346/1-A
Matrix: Solid
Analysis Batch: 66783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0156	U	0.196	0.0156	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Arsenic	0.0605	U	0.392	0.0605	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Barium	0.0340	U	0.392	0.0340	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Beryllium	0.0181	U	0.196	0.0181	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Cadmium	0.0114	U	0.196	0.0114	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Chromium	0.0266	U	0.392	0.0266	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Copper	0.0256	U	0.392	0.0256	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Iron	0.230	U	1.96	0.230	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Manganese	0.0250	U	0.196	0.0250	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Lead	0.0190	U	0.196	0.0190	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Antimony	0.0117	U	0.196	0.0117	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Selenium	0.0486	U	0.196	0.0486	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Thallium	0.0234	U	0.196	0.0234	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Uranium	0.00586	U	0.0980	0.00586	mg/Kg		08/24/22 10:14	08/25/22 19:57	1
Zinc	0.0434	U	0.392	0.0434	mg/Kg		08/24/22 10:14	08/25/22 19:57	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-66346/2-A
Matrix: Solid
Analysis Batch: 66783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	4.90	5.093		mg/Kg		104	80 - 120
Arsenic	9.80	10.00		mg/Kg		102	80 - 120
Barium	9.80	9.462		mg/Kg		97	80 - 120
Beryllium	9.80	9.932		mg/Kg		101	80 - 120
Cadmium	9.80	10.03		mg/Kg		102	80 - 120
Chromium	9.80	10.02		mg/Kg		102	80 - 120
Copper	9.80	9.986		mg/Kg		102	80 - 120
Iron	49.0	48.84		mg/Kg		100	80 - 120
Manganese	9.80	9.954		mg/Kg		102	80 - 120
Lead	9.80	9.719		mg/Kg		99	80 - 120
Antimony	9.80	9.797		mg/Kg		100	80 - 120
Selenium	9.80	9.917		mg/Kg		101	80 - 120
Thallium	9.80	9.765		mg/Kg		100	80 - 120
Uranium	2.45	2.423		mg/Kg		99	80 - 120
Zinc	9.80	10.58		mg/Kg		108	80 - 120

Lab Sample ID: LCSD 860-66346/3-A
Matrix: Solid
Analysis Batch: 66783

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	4.90	5.326		mg/Kg		109	80 - 120	4	20
Arsenic	9.80	10.21		mg/Kg		104	80 - 120	2	20
Barium	9.80	9.944		mg/Kg		101	80 - 120	5	20
Beryllium	9.80	10.40		mg/Kg		106	80 - 120	5	20
Cadmium	9.80	10.35		mg/Kg		106	80 - 120	3	20
Chromium	9.80	10.16		mg/Kg		104	80 - 120	1	20
Copper	9.80	10.25		mg/Kg		105	80 - 120	3	20
Iron	49.0	49.85		mg/Kg		102	80 - 120	2	20
Manganese	9.80	9.990		mg/Kg		102	80 - 120	0	20
Lead	9.80	10.22		mg/Kg		104	80 - 120	5	20
Antimony	9.80	10.42		mg/Kg		106	80 - 120	6	20
Selenium	9.80	10.21		mg/Kg		104	80 - 120	3	20
Thallium	9.80	10.32		mg/Kg		105	80 - 120	6	20
Uranium	2.45	2.545		mg/Kg		104	80 - 120	5	20
Zinc	9.80	10.51		mg/Kg		107	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-66135/10-A
Matrix: Solid
Analysis Batch: 66284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		08/23/22 08:27	08/23/22 19:09	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-66135/11-A
Matrix: Solid
Analysis Batch: 66284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.196	0.1946		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-66135/12-A
Matrix: Solid
Analysis Batch: 66284

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66135

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.196	0.1948		mg/Kg		99	80 - 120	0	20

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-64199/32-A
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		08/09/22 13:09	08/09/22 16:29	1

Lab Sample ID: MB 860-64199/4-A
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 64199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.48	U	5.00	2.48	ug/Kg		08/09/22 13:09	08/09/22 15:44	1

Lab Sample ID: LCS 860-64199/33-A
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	101.5		ug/Kg		102	90 - 110

Lab Sample ID: LCSD 860-64199/34-A
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 64199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	100.3		ug/Kg		100	90 - 110	1	20

Lab Sample ID: LLCS 860-64199/6-A
Matrix: Solid
Analysis Batch: 64278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 64199

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	4.246	J	ug/Kg		85	

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: 9045D - pH

Lab Sample ID: 860-30420-1 DU
Matrix: Solid
Analysis Batch: 64584

Client Sample ID: Cell21-Square-62-S-3-4-220727
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.7	HF		8.7		SU				0.2	20

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-65803/1-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.0600	U	0.100	0.0600	mg/Kg		08/18/22 13:25	08/18/22 21:34	1

Lab Sample ID: LCS 860-65803/2-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65803

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			1.00	0.9870		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 860-65803/3-A
Matrix: Solid
Analysis Batch: 65804

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65803

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			1.00	1.015		mg/Kg		102	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-65273/1
Matrix: Solid
Analysis Batch: 65273

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			08/16/22 16:17	1

Lab Sample ID: LCS 860-65273/2
Matrix: Solid
Analysis Batch: 65273

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	1002		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-65273/3
Matrix: Solid
Analysis Batch: 65273

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	989.0		mg/L		99	80 - 120	1	10

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LB 860-64070/1-A
Matrix: Solid
Analysis Batch: 65273

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	53.50		5.00	5.00	mg/L			08/16/22 16:17	1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-576563/1-A
Matrix: Solid
Analysis Batch: 579358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576563

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.004546	U	0.0369	0.0369	1.00	0.205	pCi/g	08/04/22 15:23	08/25/22 06:17	1
Radium-228	0.02937	U	0.0611	0.0611		0.228	pCi/g	08/04/22 15:23	08/25/22 06:17	1
Combined Radium 226 + 228	0.02483	U	0.07138	0.07138		0.228	pCi/g	08/04/22 15:23	08/25/22 06:17	1

Lab Sample ID: LCS 160-576563/2-A
Matrix: Solid
Analysis Batch: 579359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576563

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Americium-241			96.2	98.70		11.6		1.20	pCi/g	103	75 - 125		
Cesium-137			25.7	28.61		3.01		0.264	pCi/g	111	75 - 125		
Cobalt-60			7.57	8.229		0.880		0.121	pCi/g	109	75 - 125		

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

GC/MS VOA

Analysis Batch: 63086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8260C	63142
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8260C	63142
MB 860-63086/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-63086/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-63086/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-30420-2 MS	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8260C	63142

Prep Batch: 63142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	5030C	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	5030C	
860-30420-2 MS	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	5030C	

Prep Batch: 63945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	5035	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	5035	

Analysis Batch: 63953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8260D SIM	63945
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8260D SIM	63945
MB 860-63953/8	Method Blank	Total/NA	Solid	8260D SIM	
LCS 860-63953/4	Lab Control Sample	Total/NA	Solid	8260D SIM	
LCSD 860-63953/21	Lab Control Sample Dup	Total/NA	Solid	8260D SIM	

GC/MS Semi VOA

Prep Batch: 63315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3550C	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	3550C	
MB 860-63315/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-63315/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-63315/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 63366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8270D	63315
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8270D	63315
MB 860-63315/1-A	Method Blank	Total/NA	Solid	8270D	63315
LCS 860-63315/2-A	Lab Control Sample	Total/NA	Solid	8270D	63315
LCSD 860-63315/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	63315

Prep Batch: 587220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3546	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

GC/MS Semi VOA

Analysis Batch: 587717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8270D	587220
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8270D	587220

GC Semi VOA

Prep Batch: 63911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3550C	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	3550C	
MB 860-63911/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-63911/26-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 860-63911/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-63911/27-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 860-63911/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-30420-1 MS	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3550C	
860-30420-1 MSD	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3550C	

Analysis Batch: 63930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8082A	63911
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8082A	63911
MB 860-63911/1-A	Method Blank	Total/NA	Solid	8082A	63911
LCS 860-63911/26-A	Lab Control Sample	Total/NA	Solid	8082A	63911
LCSD 860-63911/27-A	Lab Control Sample Dup	Total/NA	Solid	8082A	63911

Analysis Batch: 63960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8015B NM	64061
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8015B NM	64061
MB 860-64061/1-A	Method Blank	Total/NA	Solid	8015B NM	64061
LCS 860-64061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	64061
LCSD 860-64061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	64061

Analysis Batch: 63984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8081B	63911
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8081B	63911
MB 860-63911/1-A	Method Blank	Total/NA	Solid	8081B	63911
LCS 860-63911/2-A	Lab Control Sample	Total/NA	Solid	8081B	63911
LCSD 860-63911/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	63911
860-30420-1 MS	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8081B	63911
860-30420-1 MSD	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8081B	63911

Prep Batch: 64061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8015NM Prep	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8015NM Prep	
MB 860-64061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-64061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-64061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

HPLC/IC

Prep Batch: 66062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	300_Prep	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	300_Prep	
MB 860-66062/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 66118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	9056A	66062
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	9056A	66062
MB 860-66062/1-A	Method Blank	Total/NA	Solid	9056A	66062
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	9056A	66062
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	66062

Analysis Batch: 66119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	9056A	66062
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	9056A	66062
MB 860-66062/1-A	Method Blank	Total/NA	Solid	9056A	66062
LCS 860-66062/2-A	Lab Control Sample	Total/NA	Solid	9056A	66062
LCSD 860-66062/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	66062

Drying Batch: 582554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	Prep/Air Dry	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	Prep/Air Dry	

Prep Batch: 582759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8330B	582554
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8330B	582554
MB 280-582759/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-582759/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 582877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	8330B	582759
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	8330B	582759
MB 280-582759/1-A	Method Blank	Total/NA	Solid	8330B	582759
LCS 280-582759/2-A	Lab Control Sample	Total/NA	Solid	8330B	582759

LCMS

Analysis Batch: 582514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-582514/12	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 582681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	6860	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	6860	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

LCMS (Continued)

Prep Batch: 582681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-582681/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-582681/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 582854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	PFC leach	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	PFC leach	
MB 280-582854/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-582854/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 582885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	6860	582681
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	6860	582681
MB 280-582681/1-A	Method Blank	Total/NA	Solid	6860	582681
LCS 280-582681/2-A	Lab Control Sample	Total/NA	Solid	6860	582681

Analysis Batch: 584623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-584623/13	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Analysis Batch: 584624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	DV-LC-0012	582854
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	DV-LC-0012	582854
MB 280-582854/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	582854
LCS 280-582854/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	582854

Metals

Prep Batch: 66135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	7471A	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	7471A	
MB 860-66135/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-66135/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-66135/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 66284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	7471A	66135
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	7471A	66135
MB 860-66135/10-A	Method Blank	Total/NA	Solid	7471A	66135
LCS 860-66135/11-A	Lab Control Sample	Total/NA	Solid	7471A	66135
LCSD 860-66135/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	66135

Prep Batch: 66346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	3051A	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	3051A	
MB 860-66346/1-A	Method Blank	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Metals (Continued)

Prep Batch: 66346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-66346/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-66346/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 66783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	6020A	66346
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	6020A	66346
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	6020A	66346
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	6020A	66346
MB 860-66346/1-A	Method Blank	Total/NA	Solid	6020A	66346
LCS 860-66346/2-A	Lab Control Sample	Total/NA	Solid	6020A	66346
LCSD 860-66346/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	66346

General Chemistry

Leach Batch: 64070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	7 Day Leach	Solid	335.521	
860-30420-2	Cell21-Square-42-S-3-4-220727	7 Day Leach	Solid	335.521	
LB 860-64070/1-A	Method Blank	7 Day Leach	Solid	335.521	

Prep Batch: 64199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	9012A	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	9012A	
MB 860-64199/32-A	Method Blank	Total/NA	Solid	9012A	
MB 860-64199/4-A	Method Blank	Total/NA	Solid	9012A	
LCS 860-64199/33-A	Lab Control Sample	Total/NA	Solid	9012A	
LCSD 860-64199/34-A	Lab Control Sample Dup	Total/NA	Solid	9012A	
LLCS 860-64199/6-A	Lab Control Sample	Total/NA	Solid	9012A	

Analysis Batch: 64278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	9012A	64199
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	9012A	64199
MB 860-64199/32-A	Method Blank	Total/NA	Solid	9012A	64199
MB 860-64199/4-A	Method Blank	Total/NA	Solid	9012A	64199
LCS 860-64199/33-A	Lab Control Sample	Total/NA	Solid	9012A	64199
LCSD 860-64199/34-A	Lab Control Sample Dup	Total/NA	Solid	9012A	64199
LLCS 860-64199/6-A	Lab Control Sample	Total/NA	Solid	9012A	64199

Leach Batch: 64386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Soluble	Solid	DI Leach	
860-30420-2	Cell21-Square-42-S-3-4-220727	Soluble	Solid	DI Leach	
860-30420-1 DU	Cell21-Square-62-S-3-4-220727	Soluble	Solid	DI Leach	

Analysis Batch: 64442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	Moisture - 2540	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	Moisture - 2540	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

General Chemistry (Continued)

Analysis Batch: 64442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-64442/1	Method Blank	Total/NA	Solid	Moisture - 2540	

Analysis Batch: 64584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Soluble	Solid	9045D	64386
860-30420-2	Cell21-Square-42-S-3-4-220727	Soluble	Solid	9045D	64386
860-30420-1 DU	Cell21-Square-62-S-3-4-220727	Soluble	Solid	9045D	64386

Analysis Batch: 65273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	7 Day Leach	Solid	SM 2540C	64070
860-30420-2	Cell21-Square-42-S-3-4-220727	7 Day Leach	Solid	SM 2540C	64070
LB 860-64070/1-A	Method Blank	7 Day Leach	Solid	SM 2540C	64070
MB 860-65273/1	Method Blank	Total/NA	Solid	SM 2540C	
LCS 860-65273/2	Lab Control Sample	Total/NA	Solid	SM 2540C	
LCSD 860-65273/3	Lab Control Sample Dup	Total/NA	Solid	SM 2540C	

Prep Batch: 65803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	Distill/Phenol	
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	Distill/Phenol	
MB 860-65803/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 860-65803/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
LCSD 860-65803/3-A	Lab Control Sample Dup	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 65804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	9066	65803
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	9066	65803
MB 860-65803/1-A	Method Blank	Total/NA	Solid	9066	65803
LCS 860-65803/2-A	Lab Control Sample	Total/NA	Solid	9066	65803
LCSD 860-65803/3-A	Lab Control Sample Dup	Total/NA	Solid	9066	65803

Rad

Leach Batch: 576210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	Dry and Grind	

Leach Batch: 576234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	Dry and Grind	

Prep Batch: 576563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-30420-1	Cell21-Square-62-S-3-4-220727	Total/NA	Solid	Fill_Geo-21	576210
860-30420-2	Cell21-Square-42-S-3-4-220727	Total/NA	Solid	Fill_Geo-21	576234
MB 160-576563/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-576563/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-62-S-3-4-220727
Lab Sample ID: 860-30420-1
Date Collected: 07/27/22 08:00
Matrix: Solid
Date Received: 07/28/22 10:12

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	63142	08/01/22 15:40	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	63086	08/01/22 17:40	KLV	EET HOU
Total/NA	Prep	5035			5.00 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 20:38	KLV	EET HOU
Total/NA	Prep	3550C			29.99 g	1 mL	63315	08/02/22 15:39	JN	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	63366	08/03/22 12:37	LPL	EET HOU
Total/NA	Prep	3546			15.12 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		5			587717	08/05/22 22:18	PP1	EET PEN
Total/NA	Prep	8015NM Prep			10.95 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 19:02	T1S	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	63911	08/08/22 06:30	TH	EET HOU
Total/NA	Analysis	8081B		1			63984	08/08/22 13:31	WP	EET HOU
Total/NA	Prep	3550C			30.03 g	5 mL	63911	08/08/22 06:30	TH	EET HOU
Total/NA	Analysis	8082A		1			63930	08/08/22 20:31	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.20 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 22:34	JZ	EET DEN
Total/NA	Prep	300_Prep			5.00 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 04:58	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.00 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 04:58	RBNS	EET HOU
Total/NA	Prep	6860			10.72 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 13:27	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.65 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 10:30	AGCM	EET DEN
Total/NA	Prep	3051A			.57 g	50 mL	66346	08/24/22 10:15	PB	EET HOU
Total/NA	Analysis	6020A		2			66783	08/25/22 21:37	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	66346	08/24/22 10:15	PB	EET HOU
Total/NA	Analysis	6020A		10			66783	08/25/22 21:46	SHZ	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	66135	08/23/22 08:27	AGR	EET HOU
Total/NA	Analysis	7471A		1			66284	08/23/22 19:58	SHZ	EET HOU
Total/NA	Prep	9012A			0.4977 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:47	YVD	EET HOU
Soluble	Leach	DI Leach			20.20 g	20 mL	64386	08/10/22 14:29	TL	EET HOU
Soluble	Analysis	9045D		1	20.20 g	20 mL	64584	08/11/22 14:11	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 21:42	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	576210	08/02/22 11:22	LTC	EET SL
Total/NA	Prep	Fill_Geo-21			376.7000 g	1.0 g	576563	08/04/22 15:24	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579357	08/25/22 06:22	CAH	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-30420-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-42-S-3-4-220727
Lab Sample ID: 860-30420-2

Date Collected: 07/27/22 09:25
Matrix: Solid
Date Received: 07/28/22 10:12

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	63142	08/01/22 15:40	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	63086	08/01/22 18:03	KLV	EET HOU
Total/NA	Prep	5035			4.99 g	5 mL	63945	08/08/22 16:30	MTMG	EET HOU
Total/NA	Analysis	8260D SIM		1	5 mL	5 mL	63953	08/08/22 20:56	KLV	EET HOU
Total/NA	Prep	3550C			29.96 g	1 mL	63315	08/02/22 15:39	JN	EET HOU
Total/NA	Analysis	8270D		1	1 mL	1.0 mL	63366	08/03/22 13:01	LPL	EET HOU
Total/NA	Prep	3546			15.26 g	1 mL	587220	08/02/22 12:32	JTC	EET PEN
Total/NA	Analysis	8270D		1			587717	08/05/22 22:45	PP1	EET PEN
Total/NA	Prep	8015NM Prep			9.75 g	10 mL	64061	08/08/22 17:02	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			63960	08/08/22 19:22	T1S	EET HOU
Total/NA	Prep	3550C			30.06 g	5 mL	63911	08/08/22 06:30	TH	EET HOU
Total/NA	Analysis	8081B		1			63984	08/08/22 13:45	WP	EET HOU
Total/NA	Prep	3550C			30.06 g	5 mL	63911	08/08/22 06:30	TH	EET HOU
Total/NA	Analysis	8082A		1			63930	08/08/22 20:42	WP	EET HOU
Total/NA	Drying	Prep/Air Dry			1.0 g	1.0 g	582554	08/01/22 11:39	DCL	EET DEN
Total/NA	Prep	8330B			10.37 g	40 mL	582759	08/02/22 17:50	EKB	EET DEN
Total/NA	Analysis	8330B		1			582877	08/03/22 22:56	JZ	EET DEN
Total/NA	Prep	300_Prep			5.01 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66118	08/23/22 05:12	RBNS	EET HOU
Total/NA	Prep	300_Prep			5.01 g	50 mL	66062	08/22/22 14:59	SCI	EET HOU
Total/NA	Analysis	9056A		1			66119	08/23/22 05:12	RBNS	EET HOU
Total/NA	Prep	6860			10.26 g	100 mL	582681	08/02/22 14:51	DCL	EET DEN
Total/NA	Analysis	6860		1			582885	08/03/22 13:32	AGCM	EET DEN
Total/NA	Prep	PFC leach			10.03 g	20 mL	582854	08/03/22 13:27	DCL	EET DEN
Total/NA	Analysis	DV-LC-0012		1			584624	08/20/22 10:39	AGCM	EET DEN
Total/NA	Prep	3051A			.58 g	50 mL	66346	08/24/22 10:15	PB	EET HOU
Total/NA	Analysis	6020A		2			66783	08/25/22 21:49	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	66346	08/24/22 10:15	PB	EET HOU
Total/NA	Analysis	6020A		10			66783	08/25/22 21:52	SHZ	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	66135	08/23/22 08:27	AGR	EET HOU
Total/NA	Analysis	7471A		1			66284	08/23/22 20:00	SHZ	EET HOU
Total/NA	Prep	9012A			0.4976 g	6 mL	64199	08/09/22 13:09	YVD	EET HOU
Total/NA	Analysis	9012A		1			64278	08/09/22 16:51	YVD	EET HOU
Soluble	Leach	DI Leach			20.13 g	20 mL	64386	08/10/22 14:29	TL	EET HOU
Soluble	Analysis	9045D		1	20.13 g	20 mL	64584	08/11/22 14:11	TL	EET HOU
Total/NA	Prep	Distill/Phenol			5 g	50 mL	65803	08/18/22 13:25	YGG	EET HOU
Total/NA	Analysis	9066		1	10 mL	10 mL	65804	08/18/22 21:52	YGG	EET HOU
Total/NA	Analysis	Moisture - 2540		1			64442	08/10/22 08:00	JM	EET HOU
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	64070	08/08/22 11:00	EMC	EET HOU
7 Day Leach	Analysis	SM 2540C		1	200 mL	200 mL	65273	08/16/22 16:17	MCA	EET HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	576234	08/02/22 14:31	ZTH	EET SL
Total/NA	Prep	Fill_Geo-21			329.2000 g	1.0 g	576563	08/04/22 15:24	MND	EET SL
Total/NA	Analysis	GA-01-R		1			579358	08/25/22 06:59	CAH	EET SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Laboratory References:

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: 860-30420-1
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	21-038-0	08-04-22 *
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

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	02-08-23
Arizona	State	AZ0713	12-20-22
Arkansas DEQ	State	19-047-0	06-01-22 *
California	State	2513	01-08-23
Connecticut	State	PH-0686	09-30-22
Florida	NELAP	E87667-57	06-30-23
Georgia	State	4025-011	01-08-23
Illinois	NELAP	2000172019-1	04-30-23
Iowa	State	IA#370	12-02-22
Kansas	NELAP	E-10166	04-30-23
Kentucky (WW)	State	KY98047	12-31-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-23
Minnesota	NELAP	1788752	12-31-22
Nevada	State	CO000262020-1	07-31-22 *
New Hampshire	NELAP	205319	04-28-23
New Jersey	NELAP	190002	06-30-23
New York	NELAP	59923	04-01-23
North Carolina (WW/SW)	State	358	12-31-22
North Dakota	State	R-034	01-08-23
Oklahoma	NELAP	8614	08-31-22
Oregon	NELAP	4025-011	01-09-23
Pennsylvania	NELAP	013	07-31-23
South Carolina	State	72002001	01-08-23
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-21-19	10-01-22
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-22 *
Virginia	NELAP	10490	06-14-23
Washington	State	C583-19	08-03-22 *
West Virginia DEP	State	354	11-30-22
Wisconsin	State	999615430	08-31-22
Wyoming (UST)	A2LA	2907.01	10-31-22

Laboratory: Eurofins Pensacola

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-30420-1
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
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-22 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-30420-1
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
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22 *
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22 *
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

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
8270D	Pesticides by GC/MS	SW846	EET PEN
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
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
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	EET DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	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
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	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
6860	Deionized Water Leach Prep	SW846	EET DEN
7471A	Preparation, Mercury	SW846	EET HOU
8015NM Prep	Microextraction	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 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
PFC leach	Leaching procedure for PFAS	TAL-DEN	EET DEN
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
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.
TAL-DEN = TestAmerica Laboratories, Denver, Facility Standard Operating Procedure.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-30420-1

Method	Method Description	Protocol	Laboratory

Laboratory References:

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: 860-30420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-30420-1	Cell21-Square-62-S-3-4-220727	Solid	07/27/22 08:00	07/28/22 10:12
860-30420-2	Cell21-Square-42-S-3-4-220727	Solid	07/27/22 09:25	07/28/22 10:12

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins TestAmerica, Houston
4145 Greenbriar Dr
Stafford TX 77477
Phone 281-240-4200

Chain of Custody Record

eurofins

Client Information	Sampler: Jerry Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 2 of 2
Company: ARCADIS U.S. Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Standard TAT			
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	6850 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	9065- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	9020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
Cell21-Square-62-S-3-4-220722	07/22/22	0855	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
Cell21-Square-42-S-3-4-220722	07/22/22	0925	G	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	16	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

860-30420 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: Jerry Longwell	Date/Time: 07/22/22 / 0902	Company: ARCADIS	Received by: FedEx
Relinquished by: FedEx	Date/Time:	Company	Received by: Pilot
Relinquished by:	Date/Time:	Company	Received by:

Received by: FedEx	Date/Time:	Company	
Received by: Pilot	Date/Time: 7/28/22 1012	Company: Ex	
Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: Temp: 3.5 IR ID:HOU-339 C/F:-1.4 Corrected Temp: 2.1

er 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-15540.1
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 #: 860-30420-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/16/2022			
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

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
			Preservation Code:					
Cell21-Square-62-S-3-4-220727 (860-30420-1)	7/27/22	08:00 Central		Solid			X	2
Cell21-Square-42-S-3-4-220727 (860-30420-2)	7/27/22	09:25 Central		Solid			X	2

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:

Special Instructions/Note:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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: FED EX	Date/Time: 7/29/22 1900	Company: FEX	Received by: FED EX
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: 8/01 2022 0910 Company: ETAST
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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 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: 860-15538.1
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 #: 860-30420-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 8/15/2022			
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)	6860/6860_Prep Standard 6860 list	PFC/PFC_Leach (MOD) Custom List	8330B/Dry_Sample (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Cell21-Square-62-S-3-4-220727 (860-30420-1)	7/27/22	08:00 Central		Solid			X	X	X	3	
Cell21-Square-42-S-3-4-220727 (860-30420-2)	7/27/22	09:25 Central		Solid			X	X	X	3	

Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out 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 complicance 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]	7/29/22 1900	Ex	[signature]	7/30/22 0925	ETADEN
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: 5.8 CF70.1 IR12

Ver: 06/08/2021

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4147 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. 860-15535.1
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 #: 860-30420-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 8/4/2022			
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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell21-Square-62-S-3-4-220727 (860-30420-1)	7/27/22	08:00 Central		Solid			X	1	
Cell21-Square-42-S-3-4-220727 (860-30420-2)	7/27/22	09:25 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 out 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 complicance 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: PLaPla	Date/Time: 7/29/22 1900	Company Ex	Received by:	Date/Time.	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7.30 22 08.30	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-30420-1

Login Number: 30420 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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: 860-30420-1

Login Number: 30420 **List Source: Eurofins Denver**
List Number: 3 **List Creation: 07/30/22 01:26 PM**
Creator: Roehsner, Karen P

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.	N/A	
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.	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: 860-30420-1

Login Number: 30420 **List Source: Eurofins Pensacola**
List Number: 2 **List Creation: 07/30/22 10:58 AM**
Creator: Roberts, Alexis J

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	0.3°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: 860-30420-1

Login Number: 30420 **List Source: Eurofins St. Louis**
List Number: 4 **List Creation: 08/01/22 11:16 AM**
Creator: Bohlmann, Jessica M

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.	N/A	
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 U.S., Inc.
630 Plaza Drive
Suite 100
Highlands Ranch, Colorado 80129-2377

Generated 12/29/2022 3:36:13 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38645-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
12/29/2022 3:36:13 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: 860-38645-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
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
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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

Job ID: 860-38645-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38645-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/29/2022. The report (revision 1) is being revised due to: moisture results reported.

Receipt
The samples were received on 12/6/2022 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 was 4.5º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-38418-C-6-A) and (860-38418-C-6-A MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a 40 ml methanol vial.

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

GC VOA
Method 8015D: The following samples were diluted due to the nature of the sample matrix: Cell19-204-S-3-4-221205 (860-38645-5) and (860-38645-D-5-A MS). 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.

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

Client Sample ID: Cell20-187-S-3-4-221205 — Lab Sample ID: 860-38645-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	7.24	J	9.94	2.49	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell20-102-S-3-4-221205 — Lab Sample ID: 860-38645-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	6.23	J	10.1	2.53	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell20-204-S-3-4-221205 — Lab Sample ID: 860-38645-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	7.97	J	10.0	2.51	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell20-179-S-3-4-221205 — Lab Sample ID: 860-38645-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	7.58	J	10.0	2.50	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell19-204-S-3-4-221205 — Lab Sample ID: 860-38645-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	8.46	J p	10.0	2.51	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell19-93-S-3-4-221205 — Lab Sample ID: 860-38645-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	10.1		9.94	2.49	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell19-82-S-3-4-221205 — Lab Sample ID: 860-38645-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	7.56	J	9.94	2.49	mg/Kg	50		8015D	Total/NA

Client Sample ID: Cell19-84-S-3-4-221205 — Lab Sample ID: 860-38645-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C4-C12	9.45	J	10.0	2.50	mg/Kg	50		8015D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

Client Sample ID: Cell20-187-S-3-4-221205

Lab Sample ID: 860-38645-1
Date Collected: 12/05/22 10:35
Matrix: Solid
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/07/22 15:27	12/07/22 17:45	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/07/22 15:27	12/07/22 17:45	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/07/22 15:27	12/07/22 17:45	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/07/22 15:27	12/07/22 17:45	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/07/22 15:27	12/07/22 17:45	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/07/22 15:27	12/07/22 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*12/07/22 15:27*	*12/07/22 17:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*12/07/22 15:27*	*12/07/22 17:45*	*1*
Dibromofluoromethane (Surr)	*83*		*53 - 142*	*12/07/22 15:27*	*12/07/22 17:45*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/07/22 15:27*	*12/07/22 17:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.49	U	9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 17:30	50
C4-C12	**7.24**	**J**	9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 17:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/07/22 15:27*	*12/07/22 17:30*	*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]	35.4	U	51.2	35.4	mg/Kg		12/09/22 08:01	12/09/22 14:34	1
Oil Range Organics (C28-C36)	35.4	U	51.2	35.4	mg/Kg		12/09/22 08:01	12/09/22 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*70*		*39 - 120*	*12/09/22 08:01*	*12/09/22 14:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.1**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**89.9**				%			12/08/22 11:21	1

Client Sample ID: Cell20-102-S-3-4-221205

Lab Sample ID: 860-38645-2
Date Collected: 12/05/22 10:54
Matrix: Solid
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/07/22 15:27	12/07/22 18:05	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/07/22 15:27	12/07/22 18:05	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/07/22 15:27	12/07/22 18:05	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/07/22 15:27	12/07/22 18:05	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/07/22 15:27	12/07/22 18:05	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/07/22 15:27	12/07/22 18:05	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-102-S-3-4-221205 Lab Sample ID: 860-38645-2
Date Collected: 12/05/22 10:54 **Matrix: Solid**
Date Received: 12/06/22 10:01

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*	*12/07/22 15:27*	*12/07/22 18:05*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*12/07/22 15:27*	*12/07/22 18:05*	*1*
Dibromofluoromethane (Surr)	*85*		*53 - 142*	*12/07/22 15:27*	*12/07/22 18:05*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*12/07/22 15:27*	*12/07/22 18:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.53	U	10.1	2.53	mg/Kg		12/07/22 15:27	12/07/22 18:01	50
C4-C12	**6.23**	**J**	10.1	2.53	mg/Kg		12/07/22 15:27	12/07/22 18:01	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/07/22 15:27*	*12/07/22 18:01*	*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]	34.1	U	49.3	34.1	mg/Kg		12/09/22 08:01	12/09/22 15:01	1
Oil Range Organics (C28-C36)	34.1	U	49.3	34.1	mg/Kg		12/09/22 08:01	12/09/22 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*80*		*39 - 120*	*12/09/22 08:01*	*12/09/22 15:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.8**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**87.2**				%			12/08/22 11:21	1

Client Sample ID: Cell20-204-S-3-4-221205 Lab Sample ID: 860-38645-3
Date Collected: 12/05/22 11:20 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000734	U	0.00100	0.000734	mg/Kg		12/07/22 15:27	12/07/22 18:26	1
Toluene	0.00192	U	0.00501	0.00192	mg/Kg		12/07/22 15:27	12/07/22 18:26	1
Ethylbenzene	0.000666	U	0.00100	0.000666	mg/Kg		12/07/22 15:27	12/07/22 18:26	1
m,p-Xylenes	0.000802	U	0.00200	0.000802	mg/Kg		12/07/22 15:27	12/07/22 18:26	1
o-Xylene	0.000902	U	0.00100	0.000902	mg/Kg		12/07/22 15:27	12/07/22 18:26	1
Xylenes, Total	0.000902	U	0.00200	0.000902	mg/Kg		12/07/22 15:27	12/07/22 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*12/07/22 15:27*	*12/07/22 18:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*12/07/22 15:27*	*12/07/22 18:26*	*1*
Dibromofluoromethane (Surr)	*84*		*53 - 142*	*12/07/22 15:27*	*12/07/22 18:26*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/07/22 15:27*	*12/07/22 18:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-204-S-3-4-221205 Lab Sample ID: 860-38645-3

Date Collected: 12/05/22 11:20 **Matrix: Solid**
Date Received: 12/06/22 10:01

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	2.51	U	10.0	2.51	mg/Kg		12/07/22 15:27	12/07/22 18:33	50
C4-C12	7.97	J	10.0	2.51	mg/Kg		12/07/22 15:27	12/07/22 18:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/07/22 15:27*	*12/07/22 18:33*	*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]	34.2	U	49.5	34.2	mg/Kg		12/09/22 08:01	12/09/22 15:28	1
Oil Range Organics (C28-C36)	34.2	U	49.5	34.2	mg/Kg		12/09/22 08:01	12/09/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*39 - 120*	*12/09/22 08:01*	*12/09/22 15:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.8				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	88.2				%			12/08/22 11:21	1

Client Sample ID: Cell20-179-S-3-4-221205 Lab Sample ID: 860-38645-4

Date Collected: 12/05/22 11:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg		12/07/22 15:27	12/07/22 18:46	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg		12/07/22 15:27	12/07/22 18:46	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg		12/07/22 15:27	12/07/22 18:46	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg		12/07/22 15:27	12/07/22 18:46	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg		12/07/22 15:27	12/07/22 18:46	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg		12/07/22 15:27	12/07/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/07/22 15:27*	*12/07/22 18:46*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*12/07/22 15:27*	*12/07/22 18:46*	*1*
Dibromofluoromethane (Surr)	*87*		*53 - 142*	*12/07/22 15:27*	*12/07/22 18:46*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/07/22 15:27*	*12/07/22 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.50	U	10.0	2.50	mg/Kg		12/07/22 15:27	12/07/22 19:04	50
C4-C12	7.58	J	10.0	2.50	mg/Kg		12/07/22 15:27	12/07/22 19:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/07/22 15:27*	*12/07/22 19:04*	*50*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-179-S-3-4-221205 Lab Sample ID: 860-38645-4

Date Collected: 12/05/22 11:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.7	U	50.2	34.7	mg/Kg		12/09/22 08:01	12/09/22 15:55	1
Oil Range Organics (C28-C36)	34.7	U	50.2	34.7	mg/Kg		12/09/22 08:01	12/09/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*39 - 120*	*12/09/22 08:01*	*12/09/22 15:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.6**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**85.4**				%			12/08/22 11:21	1

Client Sample ID: Cell19-204-S-3-4-221205 Lab Sample ID: 860-38645-5

Date Collected: 12/05/22 12:16 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000734	U	0.00100	0.000734	mg/Kg		12/07/22 15:27	12/07/22 19:07	1
Toluene	0.00192	U	0.00501	0.00192	mg/Kg		12/07/22 15:27	12/07/22 19:07	1
Ethylbenzene	0.000666	U	0.00100	0.000666	mg/Kg		12/07/22 15:27	12/07/22 19:07	1
m,p-Xylenes	0.000802	U	0.00200	0.000802	mg/Kg		12/07/22 15:27	12/07/22 19:07	1
o-Xylene	0.000902	U	0.00100	0.000902	mg/Kg		12/07/22 15:27	12/07/22 19:07	1
Xylenes, Total	0.000902	U	0.00200	0.000902	mg/Kg		12/07/22 15:27	12/07/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/07/22 15:27*	*12/07/22 19:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*12/07/22 15:27*	*12/07/22 19:07*	*1*
Dibromofluoromethane (Surr)	*87*		*53 - 142*	*12/07/22 15:27*	*12/07/22 19:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*12/07/22 15:27*	*12/07/22 19:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.51	U	10.0	2.51	mg/Kg		12/07/22 15:27	12/09/22 02:46	50
C4-C12	**8.46**	**J p**	10.0	2.51	mg/Kg		12/07/22 15:27	12/09/22 02:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/07/22 15:27*	*12/09/22 02:46*	*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]	36.1	U	52.2	36.1	mg/Kg		12/09/22 08:01	12/09/22 16:21	1
Oil Range Organics (C28-C36)	36.1	U	52.2	36.1	mg/Kg		12/09/22 08:01	12/09/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*39 - 120*	*12/09/22 08:01*	*12/09/22 16:21*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-204-S-3-4-221205 Lab Sample ID: 860-38645-5

Date Collected: 12/05/22 12:16 **Matrix: Solid**
Date Received: 12/06/22 10:01

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.9				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	93.1				%			12/08/22 11:21	1

Client Sample ID: Cell19-93-S-3-4-221205 Lab Sample ID: 860-38645-6

Date Collected: 12/05/22 13:06 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/07/22 15:27	12/07/22 19:27	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/07/22 15:27	12/07/22 19:27	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/07/22 15:27	12/07/22 19:27	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/07/22 15:27	12/07/22 19:27	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/07/22 15:27	12/07/22 19:27	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/07/22 15:27	12/07/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*12/07/22 15:27*	*12/07/22 19:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/07/22 15:27*	*12/07/22 19:27*	*1*
Dibromofluoromethane (Surr)	*88*		*53 - 142*	*12/07/22 15:27*	*12/07/22 19:27*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/07/22 15:27*	*12/07/22 19:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.49	U	9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 20:07	50
C4-C12	10.1		9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 20:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/07/22 15:27*	*12/07/22 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]	35.2	U	51.0	35.2	mg/Kg		12/09/22 08:01	12/09/22 16:48	1
Oil Range Organics (C28-C36)	35.2	U	51.0	35.2	mg/Kg		12/09/22 08:01	12/09/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*39 - 120*	*12/09/22 08:01*	*12/09/22 16:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	86.8				%			12/08/22 11:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-82-S-3-4-221205 Lab Sample ID: 860-38645-7
Date Collected: 12/05/22 13:25 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/07/22 15:27	12/07/22 19:48	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/07/22 15:27	12/07/22 19:48	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/07/22 15:27	12/07/22 19:48	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/07/22 15:27	12/07/22 19:48	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/07/22 15:27	12/07/22 19:48	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/07/22 15:27	12/07/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*12/07/22 15:27*	*12/07/22 19:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*12/07/22 15:27*	*12/07/22 19:48*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*12/07/22 15:27*	*12/07/22 19:48*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/07/22 15:27*	*12/07/22 19:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.49	U	9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 20:38	50
C4-C12	**7.56**	**J**	9.94	2.49	mg/Kg		12/07/22 15:27	12/07/22 20:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/07/22 15:27*	*12/07/22 20:38*	*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]	33.4	U	48.4	33.4	mg/Kg		12/09/22 08:01	12/09/22 17:15	1
Oil Range Organics (C28-C36)	33.4	U	48.4	33.4	mg/Kg		12/09/22 08:01	12/09/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*39 - 120*	*12/09/22 08:01*	*12/09/22 17:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.2**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**89.8**				%			12/08/22 11:21	1

Client Sample ID: Cell19-84-S-3-4-221205 Lab Sample ID: 860-38645-8
Date Collected: 12/05/22 13:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000733	U	0.00100	0.000733	mg/Kg		12/07/22 15:27	12/07/22 20:09	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg		12/07/22 15:27	12/07/22 20:09	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg		12/07/22 15:27	12/07/22 20:09	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg		12/07/22 15:27	12/07/22 20:09	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg		12/07/22 15:27	12/07/22 20:09	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg		12/07/22 15:27	12/07/22 20:09	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-84-S-3-4-221205 Lab Sample ID: 860-38645-8

Date Collected: 12/05/22 13:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*12/07/22 15:27*	*12/07/22 20:09*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*12/07/22 15:27*	*12/07/22 20:09*	*1*
Dibromofluoromethane (Surr)	*87*		*53 - 142*	*12/07/22 15:27*	*12/07/22 20:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*12/07/22 15:27*	*12/07/22 20:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000800	U	0.00200	0.000800	mg/Kg			12/14/22 16:26	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	2.50	U	10.0	2.50	mg/Kg		12/07/22 15:27	12/07/22 21:09	50
C4-C12	**9.45**	**J**	10.0	2.50	mg/Kg		12/07/22 15:27	12/07/22 21:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/07/22 15:27*	*12/07/22 21:09*	*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]	33.6	U	48.5	33.6	mg/Kg		12/09/22 08:01	12/09/22 17:42	1
Oil Range Organics (C28-C36)	33.6	U	48.5	33.6	mg/Kg		12/09/22 08:01	12/09/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*64*		*39 - 120*	*12/09/22 08:01*	*12/09/22 17:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.8**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**88.2**				%			12/08/22 11:21	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

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)
860-38645-1	Cell20-187-S-3-4-221205	97	94	83	101
860-38645-2	Cell20-102-S-3-4-221205	94	97	85	104
860-38645-3	Cell20-204-S-3-4-221205	96	97	84	103
860-38645-4	Cell20-179-S-3-4-221205	101	93	87	103
860-38645-5	Cell19-204-S-3-4-221205	101	97	87	102
860-38645-6	Cell19-93-S-3-4-221205	103	96	88	103
860-38645-7	Cell19-82-S-3-4-221205	105	98	91	103
860-38645-8	Cell19-84-S-3-4-221205	105	95	87	103
LCS 860-80728/3	Lab Control Sample	92	96	87	102
LCSD 860-80728/4	Lab Control Sample Dup	94	93	88	102
MB 860-80728/9	Method Blank	99	92	85	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)
860-38645-1	Cell20-187-S-3-4-221205	90
860-38645-2	Cell20-102-S-3-4-221205	94
860-38645-3	Cell20-204-S-3-4-221205	89
860-38645-4	Cell20-179-S-3-4-221205	94
860-38645-5	Cell19-204-S-3-4-221205	98
860-38645-6	Cell19-93-S-3-4-221205	97
860-38645-7	Cell19-82-S-3-4-221205	93
860-38645-8	Cell19-84-S-3-4-221205	94
860-38645-D-5-A MS	860-38645-D-5-A MS	95
LCS 860-80748/4	Lab Control Sample	103
LCS 860-81032/4	Lab Control Sample	102
LCSD 860-80748/5	Lab Control Sample Dup	98
LCSD 860-81032/5	Lab Control Sample Dup	106
MB 860-80748/7	Method Blank	96
MB 860-81032/9	Method Blank	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(39-120)
860-38645-1	Cell20-187-S-3-4-221205	70
860-38645-2	Cell20-102-S-3-4-221205	80

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
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)						
Lab Sample ID	Client Sample ID	OTPH1 (39-120)						
860-38645-3	Cell20-204-S-3-4-221205	73						
860-38645-4	Cell20-179-S-3-4-221205	69						
860-38645-5	Cell19-204-S-3-4-221205	74						
860-38645-6	Cell19-93-S-3-4-221205	74						
860-38645-7	Cell19-82-S-3-4-221205	83						
860-38645-8	Cell19-84-S-3-4-221205	64						
LCS 240-555199/2-A	Lab Control Sample	73						
MB 240-555199/1-A	Method Blank	69						

Surrogate Legend

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

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

Lab Sample ID: MB 860-80728/9
Matrix: Solid
Analysis Batch: 80728

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			12/07/22 13:38	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/07/22 13:38	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/07/22 13:38	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/07/22 13:38	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/07/22 13:38	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/07/22 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*		*12/07/22 13:38*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*		*12/07/22 13:38*	*1*
Dibromofluoromethane (Surr)	*85*		*53 - 142*		*12/07/22 13:38*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/07/22 13:38*	*1*

Lab Sample ID: LCS 860-80728/3
Matrix: Solid
Analysis Batch: 80728

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	0.04050		mg/Kg		81	66 - 142
Toluene	0.0500	0.04540		mg/Kg		91	74 - 130
Ethylbenzene	0.0500	0.04852		mg/Kg		97	80 - 130
m,p-Xylenes	0.0500	0.04822		mg/Kg		96	78 - 130
o-Xylene	0.0500	0.04797		mg/Kg		96	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*87*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 860-80728/4
Matrix: Solid
Analysis Batch: 80728

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	0.04146		mg/Kg		83	66 - 142	2	25
Toluene	0.0500	0.04579		mg/Kg		92	74 - 130	1	25
Ethylbenzene	0.0500	0.05011		mg/Kg		100	80 - 130	3	25
m,p-Xylenes	0.0500	0.05032		mg/Kg		101	78 - 130	4	25
o-Xylene	0.0500	0.05076		mg/Kg		102	79 - 130	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*
Dibromofluoromethane (Surr)	*88*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

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

Lab Sample ID: 860-38645-D-5-A MS
Matrix: Solid
Analysis Batch: 81032

Client Sample ID: 860-38645-D-5-A MS
Prep Type: Total/NA
Prep Batch: 80567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C4-C12	50.4	*	50.1	53.88	N1	mg/Kg		7	75 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 860-80748/7
Matrix: Solid
Analysis Batch: 80748

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			12/07/22 13:05	1
C4-C12	0.0500	U	0.200	0.0500	mg/Kg			12/07/22 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*12/07/22 13:05*	*1*

Lab Sample ID: LCS 860-80748/4
Matrix: Solid
Analysis Batch: 80748

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	0.9279		mg/Kg		93	70 - 130

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

Lab Sample ID: LCSD 860-80748/5
Matrix: Solid
Analysis Batch: 80748

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	1.026		mg/Kg		103	70 - 130	10	30

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

Lab Sample ID: MB 860-81032/9
Matrix: Solid
Analysis Batch: 81032

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			12/09/22 02:15	1
C4-C12	0.0500	U	0.200	0.0500	mg/Kg			12/09/22 02:15	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

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

Lab Sample ID: MB 860-81032/9
Matrix: Solid
Analysis Batch: 81032

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		12/09/22 02:15	1

Lab Sample ID: LCS 860-81032/4
Matrix: Solid
Analysis Batch: 81032

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	1.136		mg/Kg		114	70 - 130		

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

Lab Sample ID: LCSD 860-81032/5
Matrix: Solid
Analysis Batch: 81032

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	0.9558		mg/Kg		96	70 - 130	17	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 240-555199/1-A
Matrix: Solid
Analysis Batch: 555249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		12/09/22 08:01	12/09/22 12:47	1
Oil Range Organics (C28-C36)	34.6	U	50.0	34.6	mg/Kg		12/09/22 08:01	12/09/22 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	69		39 - 120	12/09/22 08:01	12/09/22 12:47	1

Lab Sample ID: LCS 240-555199/2-A
Matrix: Solid
Analysis Batch: 555249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]			250	179.2		mg/Kg		72	49 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	73		39 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-80997/1
Matrix: Solid
Analysis Batch: 80997

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.05				%			12/08/22 11:21	1
Percent Solids	100				%			12/08/22 11:21	1

Lab Sample ID: 860-38645-1 DU
Matrix: Solid
Analysis Batch: 80997

Client Sample ID: Cell20-187-S-3-4-221205
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.1			10.4		%				3	20
Percent Solids	89.9			89.6		%				0.3	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

GC/MS VOA

Prep Batch: 80567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	5030C	

Analysis Batch: 80728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	8260C	80567
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	8260C	80567
MB 860-80728/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-80728/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-80728/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 81913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	Total BTEX	
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	Total BTEX	

GC VOA

Prep Batch: 80567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	5030C	
860-38645-D-5-A MS	860-38645-D-5-A MS	Total/NA	Solid	5030C	

Analysis Batch: 80748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	8015D	80567

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

GC VOA (Continued)

Analysis Batch: 80748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	8015D	80567
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	8015D	80567
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	8015D	80567
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	8015D	80567
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	8015D	80567
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	8015D	80567
MB 860-80748/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-80748/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-80748/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Analysis Batch: 81032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	8015D	80567
MB 860-81032/9	Method Blank	Total/NA	Solid	8015D	
LCS 860-81032/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81032/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-38645-D-5-A MS	860-38645-D-5-A MS	Total/NA	Solid	8015D	80567

GC Semi VOA

Prep Batch: 555199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	3546	
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	3546	
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	3546	
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	3546	
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	3546	
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	3546	
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	3546	
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	3546	
MB 240-555199/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-555199/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 555249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	8015B	555199
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	8015B	555199
MB 240-555199/1-A	Method Blank	Total/NA	Solid	8015B	555199
LCS 240-555199/2-A	Lab Control Sample	Total/NA	Solid	8015B	555199

General Chemistry

Analysis Batch: 80997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-1	Cell20-187-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-2	Cell20-102-S-3-4-221205	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

General Chemistry (Continued)

Analysis Batch: 80997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38645-3	Cell20-204-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-4	Cell20-179-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-5	Cell19-204-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-6	Cell19-93-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-7	Cell19-82-S-3-4-221205	Total/NA	Solid	Moisture	
860-38645-8	Cell19-84-S-3-4-221205	Total/NA	Solid	Moisture	
MB 860-80997/1	Method Blank	Total/NA	Solid	Moisture	
860-38645-1 DU	Cell20-187-S-3-4-221205	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-187-S-3-4-221205
Lab Sample ID: 860-38645-1
Date Collected: 12/05/22 10:35
Matrix: Solid
Date Received: 12/06/22 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			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 17:45	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 17:30	AN	EET HOU
Total/NA	Prep	3546			9.77 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 14:34	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell20-102-S-3-4-221205
Lab Sample ID: 860-38645-2
Date Collected: 12/05/22 10:54
Matrix: Solid
Date Received: 12/06/22 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			4.95 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 18:05	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			4.95 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 18:01	AN	EET HOU
Total/NA	Prep	3546			10.15 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 15:01	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell20-204-S-3-4-221205
Lab Sample ID: 860-38645-3
Date Collected: 12/05/22 11:20
Matrix: Solid
Date Received: 12/06/22 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	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 18:26	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 18:33	AN	EET HOU
Total/NA	Prep	3546			10.10 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 15:28	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell20-179-S-3-4-221205
Lab Sample ID: 860-38645-4
Date Collected: 12/05/22 11:40
Matrix: Solid
Date Received: 12/06/22 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	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 18:46	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-179-S-3-4-221205
Lab Sample ID: 860-38645-4
Date Collected: 12/05/22 11:40
Matrix: Solid
Date Received: 12/06/22 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	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 19:04	AN	EET HOU
Total/NA	Prep	3546			9.97 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 15:55	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-204-S-3-4-221205
Lab Sample ID: 860-38645-5
Date Collected: 12/05/22 12:16
Matrix: Solid
Date Received: 12/06/22 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	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 19:07	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			4.99 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81032	12/09/22 02:46	AN	EET HOU
Total/NA	Prep	3546			9.57 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 16:21	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-93-S-3-4-221205
Lab Sample ID: 860-38645-6
Date Collected: 12/05/22 13:06
Matrix: Solid
Date Received: 12/06/22 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			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 19:27	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 20:07	AN	EET HOU
Total/NA	Prep	3546			9.81 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 16:48	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-82-S-3-4-221205
Lab Sample ID: 860-38645-7
Date Collected: 12/05/22 13:25
Matrix: Solid
Date Received: 12/06/22 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			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 19:48	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 20:38	AN	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38645-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-82-S-3-4-221205
Lab Sample ID: 860-38645-7
Date Collected: 12/05/22 13:25
Matrix: Solid
Date Received: 12/06/22 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	3546			10.34 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 17:15	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-84-S-3-4-221205
Lab Sample ID: 860-38645-8
Date Collected: 12/05/22 13:40
Matrix: Solid
Date Received: 12/06/22 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	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	80728	12/07/22 20:09	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			81913	12/14/22 16:26	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	80567	12/07/22 15:27	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	80748	12/07/22 21:09	AN	EET HOU
Total/NA	Prep	3546			10.30 g	5 mL	555199	12/09/22 08:01	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555249	12/09/22 17:42	EPF	EET CAN
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Laboratory References:
EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38645-1
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	08-04-23
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	T104704215-22-48	12-19-22
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Laboratory: Eurofins Canton

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	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Michigan	State	9135	02-27-23
Minnesota	NELAP	039-999-348	12-21-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38645-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAN
Moisture	Percent Moisture	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CAN
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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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: 860-38645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38645-1	Cell20-187-S-3-4-221205	Solid	12/05/22 10:35	12/06/22 10:01
860-38645-2	Cell20-102-S-3-4-221205	Solid	12/05/22 10:54	12/06/22 10:01
860-38645-3	Cell20-204-S-3-4-221205	Solid	12/05/22 11:20	12/06/22 10:01
860-38645-4	Cell20-179-S-3-4-221205	Solid	12/05/22 11:40	12/06/22 10:01
860-38645-5	Cell19-204-S-3-4-221205	Solid	12/05/22 12:16	12/06/22 10:01
860-38645-6	Cell19-93-S-3-4-221205	Solid	12/05/22 13:06	12/06/22 10:01
860-38645-7	Cell19-82-S-3-4-221205	Solid	12/05/22 13:25	12/06/22 10:01
860-38645-8	Cell19-84-S-3-4-221205	Solid	12/05/22 13:40	12/06/22 10:01

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

Chain of Custody Record

860-38645 Chain of Custody

Eurofins Environment Testing

534-5161 1

Page 1 of 2

Client Information	Sampler: Jerry Shotwell	Lab PM: Kudchadkar Sachin G	
Client Contact: Sarah Johnson	Phone: 432-230-7309	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	
Company: ARCADIS U.S. Inc.	PWSID:		
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 #: Purchase Order Requested		
Email: sarah.johnson@arcadis.com	WO #:		
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348		
Site: Jal Land Farm	SSOW#:		

Job #:

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, 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 [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO_[C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 20-187-S-3-4-221205	12/05/22	1035		Solid			X		X	X		
Cell 20-102-S-3-4-221205	12/05/22	1054		Solid			X		X	X		
Cell 20-204-S-3-4-221205	12/05/22	1120		Solid			X		X	X		
Cell 20-179-S-3-4-221205	12/05/22	1140		Solid			X		X	X		
Cell 19-204-S-3-4-221205	12/05/22	1216		Solid			X		X	X		
Cell 19-93-S-3-4-221205	12/05/22	1305		Solid			X		X	X		
Cell 19-82-S-3-4-221205	12/05/22	1325		Solid			X		X	X		
Cell 19-84-S-3-4-221205	12/05/22	1340		Solid			X		X	X		
				Solid								
				Solid								
				Solid								

Temp. C/F +0.3 4.2 IR ID HOU-343
Corrected Temp: 4.5

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 ...)
☐ 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. Shotwell	12/05/22 1523	ARCADIS	Sachin Jose	12/6/22 10:01	Eurofins
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: 7/18/2023 11:20:27 AM
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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. Longsworth	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-230-7309	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal land Frm	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 20-187-S-3 4-221205	12522	1035		Solid							
Cell 20-102-S-3-4-221205	12522	1054		Solid							
Cell 20-204-S-3 4-221205	12522	1120		Solid							
Cell 20-179-S-3 4-221205	120522	1140		Solid							
Cell 19-204-S-3-4-221205	120522	1216		Solid							
Cell 19-93-S-3-4-221205	120522	1306		Solid							
Cell 19-82-S-3-4-221205	120522	1325		Solid							
Cell 19-84-S-3 4-221205	120522	1340		Solid							
				Solid							
				Solid							
				Solid							

Temp: IR ID:HOU-343
C/F +0.3 4.2
Corrected Temp: 4.5

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. Longsworth	12/6/22 1523	ARCADIS	[signature]	12/6/22 10:01	Eurofins
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: 7/18/2023 11:20:27 AM
Page 30 of 34
12/29/2022 (Rev. 1)
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Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

0.3/0.1

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-19959.1
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 #: 860-38645-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/19/2022			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						E130
Cell20-187-S-3-4-221205 (860-38645-1)	12/5/22	10:35 Central		Solid			X	1	
Cell20-102-S-3-4-221205 (860-38645-2)	12/5/22	10:54 Central		Solid			X	1	
Cell20-204-S-3-4-221205 (860-38645-3)	12/5/22	11:20 Central		Solid			X	1	
Cell20-179-S-3-4-221205 (860-38645-4)	12/5/22	11:40 Central		Solid			X	1	
Cell19-204-S-3-4-221205 (860-38645-5)	12/5/22	12:16 Central		Solid			X	1	
Cell19-93-S-3-4-221205 (860-38645-6)	12/5/22	13:06 Central		Solid			X	1	
Cell19-82-S-3-4-221205 (860-38645-7)	12/5/22	13:25 Central		Solid			X	1	
Cell19-84-S-3-4-221205 (860-38645-8)	12/5/22	13:40 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: 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
1	[signature]	12/7/22 1900	Eurofins	[signature]	12-8-22 0930	EETNC
2						
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client Eurofins - Houston Site Name_____ Cooler unpacked by:
Cooler Received on 12-8-22 Opened on 12-8-22
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 0.1 °C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC286797
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s):_____

VOA Sample Preservation - Date/Time VOAs Frozen: _____



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38645-1

Login Number: 38645 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	

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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 1/19/2023 12:38:52 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38678-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/19/2023 12:38:52 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: 860-38678-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Job ID: 860-38678-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38678-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/12/2022. The report (revision 1) is being revised due to: reanalysis.

Receipt
The samples were received on 12/6/2022 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 was 4.5º C.

Metals
Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-80935 and analytical batch 860-81160 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-81112 and analytical batch 860-81441 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.

General Chemistry
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: 860-38678-1

Client Sample ID: Cell20-187-S-3-4-221205 Lab Sample ID: 860-38678-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.61		3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	292		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	3.24	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.81	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2770		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.50	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	18.7		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.152	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.351	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	9.07		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell20-102-S-3-4-221205 Lab Sample ID: 860-38678-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.35	J	3.64	0.182	mg/Kg	10		6020B	Total/NA
Barium	225		3.64	1.25	mg/Kg	10		6020B	Total/NA
Chromium	0.935	J	3.64	0.491	mg/Kg	10		6020B	Total/NA
Copper	0.704	J	3.64	0.364	mg/Kg	10		6020B	Total/NA
Iron	720		18.2	1.16	mg/Kg	10		6020B	Total/NA
Lead	0.625	J	1.82	0.118	mg/Kg	10		6020B	Total/NA
Manganese	10.1		1.82	0.173	mg/Kg	10		6020B	Total/NA
Uranium	0.244	J	0.909	0.0909	mg/Kg	10		6020B	Total/NA
Zinc	3.48	J	3.64	1.06	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell20-204-S-3-4-221205 Lab Sample ID: 860-38678-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.91		3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	177		3.77	1.29	mg/Kg	10		6020B	Total/NA
Chromium	2.22	J	3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	1.61	J	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	1560		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	0.952	J	1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	14.4		1.89	0.179	mg/Kg	10		6020B	Total/NA
Uranium	0.562	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	6.83		3.77	1.10	mg/Kg	10		6020B	Total/NA
Mercury	0.00929	J	0.0179	0.00799	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell20-179-S-3-4-221205 Lab Sample ID: 860-38678-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.51	J	3.70	0.185	mg/Kg	10		6020B	Total/NA
Barium	200		3.70	1.27	mg/Kg	10		6020B	Total/NA
Beryllium	0.189	J	1.85	0.185	mg/Kg	10		6020B	Total/NA
Chromium	2.05	J	3.70	0.500	mg/Kg	10		6020B	Total/NA
Copper	1.55	J	3.70	0.370	mg/Kg	10		6020B	Total/NA
Iron	1680		18.5	1.19	mg/Kg	10		6020B	Total/NA
Lead	1.44	J	1.85	0.120	mg/Kg	10		6020B	Total/NA
Manganese	12.1		1.85	0.176	mg/Kg	10		6020B	Total/NA
Selenium	0.158	J	0.926	0.144	mg/Kg	5		6020B	Total/NA
Uranium	0.282	J	0.926	0.0926	mg/Kg	10		6020B	Total/NA
Zinc	4.79		3.70	1.08	mg/Kg	10		6020B	Total/NA

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: 860-38678-1

Client Sample ID: Cell19-204-S-3-4-221205 Lab Sample ID: 860-38678-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.31		3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	491		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	2.69	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	2.17	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2160		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.22	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	22.8		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.144	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.710	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	6.93		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell19-93-S-3-4-221205 Lab Sample ID: 860-38678-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.33		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	738		3.45	1.18	mg/Kg	10		6020B	Total/NA
Beryllium	0.191	J	1.72	0.172	mg/Kg	10		6020B	Total/NA
Chromium	3.71		3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	2.63	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	3050		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	2.12		1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	27.3		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.239	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.674	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	10.5		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell19-82-S-3-4-221205 Lab Sample ID: 860-38678-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.23		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	420		3.45	1.18	mg/Kg	10		6020B	Total/NA
Beryllium	0.196	J	1.72	0.172	mg/Kg	10		6020B	Total/NA
Cadmium	0.134	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	2.83	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	2.55	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2160		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	2.17		1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	24.7		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.263	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.669	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	10.4		3.45	1.01	mg/Kg	10		6020B	Total/NA
Mercury	0.00845	J	0.0182	0.00814	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell19-84-S-3-4-221205 Lab Sample ID: 860-38678-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.74		3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	377		3.51	1.20	mg/Kg	10		6020B	Total/NA
Beryllium	0.208	J	1.75	0.175	mg/Kg	10		6020B	Total/NA
Chromium	3.94		3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.78	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	3510		17.5	1.12	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Client Sample ID: Cell19-84-S-3-4-221205 (Continued) Lab Sample ID: 860-38678-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.32		1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	28.1		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.212	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.568	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	13.1		3.51	1.03	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Client Sample ID: Cell20-187-S-3-4-221205

Lab Sample ID: 860-38678-1
Matrix: Solid
Date Collected: 12/05/22 10:35
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/08/22 10:20	01/16/23 20:06	5
Arsenic	**3.61**		3.51	0.175	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Barium	**292**		3.51	1.20	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/08/22 10:20	01/16/23 20:06	5
Chromium	**3.24**	**J**	3.51	0.474	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Copper	**1.81**	**J**	3.51	0.351	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Iron	**2770**		17.5	1.12	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Lead	**1.50**	**J**	1.75	0.114	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Manganese	**18.7**		1.75	0.167	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Selenium	**0.152**	**J**	0.877	0.136	mg/Kg		12/08/22 10:20	01/16/23 20:06	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/08/22 10:20	12/08/22 20:13	10
Uranium	**0.351**	**J**	0.877	0.0877	mg/Kg		12/08/22 10:20	12/09/22 14:22	10
Zinc	**9.07**		3.51	1.03	mg/Kg		12/08/22 10:20	12/08/22 20:13	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		12/08/22 15:05	12/09/22 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.9**				%			12/09/22 10:14	1
Percent Solids (EPA Moisture)	**90.1**				%			12/09/22 10:14	1

Client Sample ID: Cell20-102-S-3-4-221205

Lab Sample ID: 860-38678-2
Matrix: Solid
Date Collected: 12/05/22 10:54
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.968	U	1.82	0.968	mg/Kg		12/08/22 10:20	01/16/23 20:09	5
Arsenic	**2.35**	**J**	3.64	0.182	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Barium	**225**		3.64	1.25	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Beryllium	0.182	U	1.82	0.182	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Cadmium	0.0818	U	0.909	0.0818	mg/Kg		12/08/22 10:20	01/16/23 20:09	5
Chromium	**0.935**	**J**	3.64	0.491	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Copper	**0.704**	**J**	3.64	0.364	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Iron	**720**		18.2	1.16	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Lead	**0.625**	**J**	1.82	0.118	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Manganese	**10.1**		1.82	0.173	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Selenium	0.141	U	0.909	0.141	mg/Kg		12/08/22 10:20	01/16/23 20:09	5
Silver	0.145	U	1.82	0.145	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Thallium	0.173	U	1.82	0.173	mg/Kg		12/08/22 10:20	12/08/22 20:16	10
Uranium	**0.244**	**J**	0.909	0.0909	mg/Kg		12/08/22 10:20	12/09/22 14:24	10
Zinc	**3.48**	**J**	3.64	1.06	mg/Kg		12/08/22 10:20	12/08/22 20:16	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		12/08/22 15:05	12/09/22 16:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Client Sample ID: Cell20-102-S-3-4-221205

Lab Sample ID: 860-38678-2
Matrix: Solid
Date Collected: 12/05/22 10:54
Date Received: 12/06/22 10:01

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	30.7				%			12/09/22 10:14	1
Percent Solids (EPA Moisture)	69.3				%			12/09/22 10:14	1

Client Sample ID: Cell20-204-S-3-4-221205

Lab Sample ID: 860-38678-3
Matrix: Solid
Date Collected: 12/05/22 11:20
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/08/22 10:20	01/16/23 20:11	5
Arsenic	5.91		3.77	0.189	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Barium	177		3.77	1.29	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Cadmium	0.0849	U	0.943	0.0849	mg/Kg		12/08/22 10:20	01/16/23 20:11	5
Chromium	2.22	J	3.77	0.509	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Copper	1.61	J	3.77	0.377	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Iron	1560		18.9	1.21	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Lead	0.952	J	1.89	0.123	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Manganese	14.4		1.89	0.179	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Selenium	0.146	U	0.943	0.146	mg/Kg		12/08/22 10:20	01/16/23 20:11	5
Silver	0.151	U	1.89	0.151	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/08/22 10:20	12/08/22 20:30	10
Uranium	0.562	J	0.943	0.0943	mg/Kg		12/08/22 10:20	12/09/22 14:27	10
Zinc	6.83		3.77	1.10	mg/Kg		12/08/22 10:20	12/08/22 20:30	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00929	J	0.0179	0.00799	mg/Kg		12/08/22 15:05	12/09/22 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7				%			12/09/22 10:14	1
Percent Solids (EPA Moisture)	88.3				%			12/09/22 10:14	1

Client Sample ID: Cell20-179-S-3-4-221205

Lab Sample ID: 860-38678-4
Matrix: Solid
Date Collected: 12/05/22 11:40
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.986	U	1.85	0.986	mg/Kg		12/08/22 10:20	01/16/23 20:14	5
Arsenic	3.51	J	3.70	0.185	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Barium	200		3.70	1.27	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Beryllium	0.189	J	1.85	0.185	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Cadmium	0.0833	U	0.926	0.0833	mg/Kg		12/08/22 10:20	01/16/23 20:14	5
Chromium	2.05	J	3.70	0.500	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Copper	1.55	J	3.70	0.370	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Iron	1680		18.5	1.19	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Lead	1.44	J	1.85	0.120	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Manganese	12.1		1.85	0.176	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Selenium	0.158	J	0.926	0.144	mg/Kg		12/08/22 10:20	01/16/23 20:14	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-179-S-3-4-221205 Lab Sample ID: 860-38678-4

Date Collected: 12/05/22 11:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.148	U	1.85	0.148	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Thallium	0.176	U	1.85	0.176	mg/Kg		12/08/22 10:20	12/08/22 20:33	10
Uranium	**0.282**	**J**	0.926	0.0926	mg/Kg		12/08/22 10:20	12/09/22 14:30	10
Zinc	**4.79**		3.70	1.08	mg/Kg		12/08/22 10:20	12/08/22 20:33	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		12/08/22 15:05	12/09/22 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.0**				%			12/09/22 10:14	1
Percent Solids (EPA Moisture)	**89.0**				%			12/09/22 10:14	1

Client Sample ID: Cell19-204-S-3-4-221205 Lab Sample ID: 860-38678-5

Date Collected: 12/05/22 12:16 **Matrix: Solid**
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/09/22 09:36	01/16/23 20:16	5
Arsenic	**5.31**		3.51	0.175	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Barium	**491**		3.51	1.20	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/09/22 09:36	01/16/23 20:16	5
Chromium	**2.69**	**J**	3.51	0.474	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Copper	**2.17**	**J**	3.51	0.351	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Iron	**2160**		17.5	1.12	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Lead	**1.22**	**J**	1.75	0.114	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Manganese	**22.8**		1.75	0.167	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Selenium	**0.144**	**J**	0.877	0.136	mg/Kg		12/09/22 09:36	01/16/23 20:16	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Uranium	**0.710**	**J**	0.877	0.0877	mg/Kg		12/09/22 09:36	12/09/22 22:26	10
Zinc	**6.93**		3.51	1.03	mg/Kg		12/09/22 09:36	12/09/22 22:26	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/08/22 15:05	12/09/22 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**92.9**				%			12/08/22 11:21	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-93-S-3-4-221205 Lab Sample ID: 860-38678-6

Date Collected: 12/05/22 13:06 **Matrix: Solid**
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/09/22 09:36	01/16/23 20:19	5
Arsenic	**6.33**		3.45	0.172	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Barium	**738**		3.45	1.18	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Beryllium	**0.191**	**J**	1.72	0.172	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/09/22 09:36	01/16/23 20:19	5
Chromium	**3.71**		3.45	0.466	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Copper	**2.63**	**J**	3.45	0.345	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Iron	**3050**		17.2	1.10	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Lead	**2.12**		1.72	0.112	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Manganese	**27.3**		1.72	0.164	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Selenium	**0.239**	**J**	0.862	0.134	mg/Kg		12/09/22 09:36	01/16/23 20:19	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Uranium	**0.674**	**J**	0.862	0.0862	mg/Kg		12/09/22 09:36	12/09/22 22:28	10
Zinc	**10.5**		3.45	1.01	mg/Kg		12/09/22 09:36	12/09/22 22:28	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00799	U	0.0179	0.00799	mg/Kg		12/08/22 15:05	12/09/22 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.9**				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	**87.1**				%			12/08/22 11:21	1

Client Sample ID: Cell19-82-S-3-4-221205 Lab Sample ID: 860-38678-7

Date Collected: 12/05/22 13:25 **Matrix: Solid**
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/09/22 09:36	01/16/23 20:21	5
Arsenic	**4.23**		3.45	0.172	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Barium	**420**		3.45	1.18	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Beryllium	**0.196**	**J**	1.72	0.172	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Cadmium	**0.134**	**J**	0.862	0.0776	mg/Kg		12/09/22 09:36	01/16/23 20:21	5
Chromium	**2.83**	**J**	3.45	0.466	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Copper	**2.55**	**J**	3.45	0.345	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Iron	**2160**		17.2	1.10	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Lead	**2.17**		1.72	0.112	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Manganese	**24.7**		1.72	0.164	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Selenium	**0.263**	**J**	0.862	0.134	mg/Kg		12/09/22 09:36	01/16/23 20:21	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Uranium	**0.669**	**J**	0.862	0.0862	mg/Kg		12/09/22 09:36	12/09/22 22:31	10
Zinc	**10.4**		3.45	1.01	mg/Kg		12/09/22 09:36	12/09/22 22:31	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00845**	**J**	0.0182	0.00814	mg/Kg		12/08/22 15:05	12/09/22 16:45	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-82-S-3-4-221205 Lab Sample ID: 860-38678-7

Date Collected: 12/05/22 13:25 **Matrix: Solid**
Date Received: 12/06/22 10:01

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.1				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	88.9				%			12/08/22 11:21	1

Client Sample ID: Cell19-84-S-3-4-221205 Lab Sample ID: 860-38678-8

Date Collected: 12/05/22 13:40 **Matrix: Solid**
Date Received: 12/06/22 10:01

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/09/22 09:36	01/16/23 20:24	5
Arsenic	4.74		3.51	0.175	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Barium	377		3.51	1.20	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Beryllium	0.208	J	1.75	0.175	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/09/22 09:36	01/16/23 20:24	5
Chromium	3.94		3.51	0.474	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Copper	1.78	J	3.51	0.351	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Iron	3510		17.5	1.12	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Lead	2.32		1.75	0.114	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Manganese	28.1		1.75	0.167	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Selenium	0.212	J	0.877	0.136	mg/Kg		12/09/22 09:36	01/16/23 20:24	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Uranium	0.568	J	0.877	0.0877	mg/Kg		12/09/22 09:36	12/09/22 22:34	10
Zinc	13.1		3.51	1.03	mg/Kg		12/09/22 09:36	12/09/22 22:34	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		12/08/22 15:05	12/09/22 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.7				%			12/08/22 11:21	1
Percent Solids (EPA Moisture)	88.3				%			12/08/22 11:21	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-80935/1-A
Matrix: Solid
Analysis Batch: 81160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.213	U	0.400	0.213	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Barium	0.137	U	0.400	0.137	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Iron	0.128	U	2.00	0.128	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Silver	0.0160	U	0.200	0.0160	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		12/08/22 10:20	12/08/22 19:23	1
Zinc	0.117	U	0.400	0.117	mg/Kg		12/08/22 10:20	12/08/22 19:23	1

Lab Sample ID: MB 860-80935/1-A
Matrix: Solid
Analysis Batch: 81257

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.0100	U	0.100	0.0100	mg/Kg		12/08/22 10:20	12/09/22 14:11	1

Lab Sample ID: LCS 860-80935/2-A
Matrix: Solid
Analysis Batch: 81160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	9.80	10.28		mg/Kg		105	80 - 120
Arsenic	9.80	9.582		mg/Kg		98	80 - 120
Barium	9.80	9.498		mg/Kg		97	80 - 120
Beryllium	9.80	9.254		mg/Kg		94	80 - 120
Cadmium	9.80	9.604		mg/Kg		98	80 - 120
Chromium	9.80	9.368		mg/Kg		96	80 - 120
Copper	9.80	9.303		mg/Kg		95	80 - 120
Iron	49.0	48.42		mg/Kg		99	80 - 120
Lead	9.80	9.386		mg/Kg		96	80 - 120
Manganese	9.80	9.539		mg/Kg		97	80 - 120
Selenium	9.80	9.425		mg/Kg		96	80 - 120
Silver	4.90	5.263		mg/Kg		107	80 - 120
Thallium	9.80	9.446		mg/Kg		96	80 - 120
Zinc	9.80	10.47		mg/Kg		107	80 - 120

Lab Sample ID: LCS 860-80935/2-A
Matrix: Solid
Analysis Batch: 81257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	2.45	2.401		mg/Kg		98	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-80935/3-A
Matrix: Solid
Analysis Batch: 81160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			9.80	10.17		mg/Kg		104	80 - 120	1	20
Arsenic			9.80	9.538		mg/Kg		97	80 - 120	0	20
Barium			9.80	9.483		mg/Kg		97	80 - 120	0	20
Beryllium			9.80	9.266		mg/Kg		95	80 - 120	0	20
Cadmium			9.80	9.464		mg/Kg		97	80 - 120	1	20
Chromium			9.80	9.245		mg/Kg		94	80 - 120	1	20
Copper			9.80	9.230		mg/Kg		94	80 - 120	1	20
Iron			49.0	48.18		mg/Kg		98	80 - 120	1	20
Lead			9.80	9.263		mg/Kg		94	80 - 120	1	20
Manganese			9.80	9.371		mg/Kg		96	80 - 120	2	20
Selenium			9.80	9.276		mg/Kg		95	80 - 120	2	20
Silver			4.90	5.128		mg/Kg		105	80 - 120	3	20
Thallium			9.80	9.388		mg/Kg		96	80 - 120	1	20
Zinc			9.80	9.908		mg/Kg		101	80 - 120	6	20

Lab Sample ID: LCSD 860-80935/3-A
Matrix: Solid
Analysis Batch: 81257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium			2.45	2.353		mg/Kg		96	80 - 120	2	20

Lab Sample ID: MB 860-81112/1-A
Matrix: Solid
Analysis Batch: 81441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.213	U	0.400	0.213	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Barium	0.137	U	0.400	0.137	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Iron	0.128	U	2.00	0.128	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Silver	0.0160	U	0.200	0.0160	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Uranium	0.0100	U	0.100	0.0100	mg/Kg		12/09/22 09:35	12/09/22 21:52	1
Zinc	0.117	U	0.400	0.117	mg/Kg		12/09/22 09:35	12/09/22 21:52	1

Lab Sample ID: LCS 860-81112/2-A
Matrix: Solid
Analysis Batch: 81441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony			9.80	9.656		mg/Kg		98	80 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-81112/2-A
Matrix: Solid
Analysis Batch: 81441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	9.80	9.322		mg/Kg		95	80 - 120
Barium	9.80	9.470		mg/Kg		97	80 - 120
Beryllium	9.80	9.640		mg/Kg		98	80 - 120
Cadmium	9.80	9.506		mg/Kg		97	80 - 120
Chromium	9.80	9.677		mg/Kg		99	80 - 120
Copper	9.80	9.636		mg/Kg		98	80 - 120
Iron	49.0	48.86		mg/Kg		100	80 - 120
Lead	9.80	9.520		mg/Kg		97	80 - 120
Manganese	9.80	9.589		mg/Kg		98	80 - 120
Selenium	9.80	9.561		mg/Kg		98	80 - 120
Silver	4.90	5.028		mg/Kg		103	80 - 120
Thallium	9.80	9.490		mg/Kg		97	80 - 120
Uranium	2.45	2.383		mg/Kg		97	80 - 120
Zinc	9.80	9.483		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-81112/3-A
Matrix: Solid
Analysis Batch: 81441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	10.0	9.893		mg/Kg		99	80 - 120	2	20
Arsenic	10.0	9.533		mg/Kg		95	80 - 120	2	20
Barium	10.0	9.557		mg/Kg		96	80 - 120	1	20
Beryllium	10.0	9.949		mg/Kg		99	80 - 120	3	20
Cadmium	10.0	9.559		mg/Kg		96	80 - 120	1	20
Chromium	10.0	9.669		mg/Kg		97	80 - 120	0	20
Copper	10.0	9.740		mg/Kg		97	80 - 120	1	20
Iron	50.0	48.95		mg/Kg		98	80 - 120	0	20
Lead	10.0	9.703		mg/Kg		97	80 - 120	2	20
Manganese	10.0	9.579		mg/Kg		96	80 - 120	0	20
Selenium	10.0	9.419		mg/Kg		94	80 - 120	1	20
Silver	5.00	5.049		mg/Kg		101	80 - 120	0	20
Thallium	10.0	9.662		mg/Kg		97	80 - 120	2	20
Uranium	2.50	2.421		mg/Kg		97	80 - 120	2	20
Zinc	10.0	9.556		mg/Kg		96	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-81007/10-A
Matrix: Solid
Analysis Batch: 81261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		12/08/22 15:05	12/09/22 16:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-81007/11-A
Matrix: Solid
Analysis Batch: 81261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81007

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.189	0.1792		mg/Kg		95	80 - 120		

Lab Sample ID: LCSD 860-81007/12-A
Matrix: Solid
Analysis Batch: 81261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81007

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.192	0.1841		mg/Kg		96	80 - 120	3	20

Lab Sample ID: 860-38678-1 MS
Matrix: Solid
Analysis Batch: 81261

Client Sample ID: Cell20-187-S-3-4-221205
Prep Type: Total/NA
Prep Batch: 81007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00861	U	0.222	0.2217		mg/Kg	☼	100	75 - 125		

Lab Sample ID: 860-38678-1 MSD
Matrix: Solid
Analysis Batch: 81261

Client Sample ID: Cell20-187-S-3-4-221205
Prep Type: Total/NA
Prep Batch: 81007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00861	U	0.222	0.2151		mg/Kg	☼	97	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-80997/1
Matrix: Solid
Analysis Batch: 80997

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.05				%			12/08/22 11:21	1
Percent Solids	100				%			12/08/22 11:21	1

Lab Sample ID: MB 860-81171/1
Matrix: Solid
Analysis Batch: 81171

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.09				%			12/09/22 10:14	1
Percent Solids	99.9				%			12/09/22 10:14	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 80935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	3051A	
MB 860-80935/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-80935/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-80935/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Prep Batch: 81007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	7471A	
MB 860-81007/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81007/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81007/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38678-1 MS	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	
860-38678-1 MSD	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	

Prep Batch: 81112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	3051A	
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	3051A	
MB 860-81112/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-81112/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-81112/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 81160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	6020B	80935
MB 860-80935/1-A	Method Blank	Total/NA	Solid	6020B	80935
LCS 860-80935/2-A	Lab Control Sample	Total/NA	Solid	6020B	80935
LCSD 860-80935/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	80935

Analysis Batch: 81257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	6020B	80935
MB 860-80935/1-A	Method Blank	Total/NA	Solid	6020B	80935

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Metals (Continued)

Analysis Batch: 81257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-80935/2-A	Lab Control Sample	Total/NA	Solid	6020B	80935
LCSD 860-80935/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	80935

Analysis Batch: 81261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	7471A	81007
MB 860-81007/10-A	Method Blank	Total/NA	Solid	7471A	81007
LCS 860-81007/11-A	Lab Control Sample	Total/NA	Solid	7471A	81007
LCSD 860-81007/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81007
860-38678-1 MS	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	81007
860-38678-1 MSD	Cell20-187-S-3-4-221205	Total/NA	Solid	7471A	81007

Analysis Batch: 81441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	6020B	81112
MB 860-81112/1-A	Method Blank	Total/NA	Solid	6020B	81112
LCS 860-81112/2-A	Lab Control Sample	Total/NA	Solid	6020B	81112
LCSD 860-81112/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	81112

Analysis Batch: 86057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	6020B	80935
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	6020B	81112
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	6020B	81112

General Chemistry

Analysis Batch: 80997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-5	Cell19-204-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-6	Cell19-93-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-7	Cell19-82-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-8	Cell19-84-S-3-4-221205	Total/NA	Solid	Moisture	
MB 860-80997/1	Method Blank	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

General Chemistry

Analysis Batch: 81171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38678-1	Cell20-187-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-2	Cell20-102-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-3	Cell20-204-S-3-4-221205	Total/NA	Solid	Moisture	
860-38678-4	Cell20-179-S-3-4-221205	Total/NA	Solid	Moisture	
MB 860-81171/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Client Sample ID: Cell20-187-S-3-4-221205
Lab Sample ID: 860-38678-1
Date Collected: 12/05/22 10:35
Matrix: Solid
Date Received: 12/06/22 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			.57 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:06	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81160	12/08/22 20:13	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81257	12/09/22 14:22	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:29	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81171	12/09/22 10:14	ALL	EET HOU

Client Sample ID: Cell20-102-S-3-4-221205
Lab Sample ID: 860-38678-2
Date Collected: 12/05/22 10:54
Matrix: Solid
Date Received: 12/06/22 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			.55 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:09	SHZ	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81160	12/08/22 20:16	DP	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81257	12/09/22 14:24	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:36	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81171	12/09/22 10:14	ALL	EET HOU

Client Sample ID: Cell20-204-S-3-4-221205
Lab Sample ID: 860-38678-3
Date Collected: 12/05/22 11:20
Matrix: Solid
Date Received: 12/06/22 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			.53 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:11	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81160	12/08/22 20:30	DP	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81257	12/09/22 14:27	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:37	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81171	12/09/22 10:14	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-179-S-3-4-221205
Lab Sample ID: 860-38678-4
Date Collected: 12/05/22 11:40
Matrix: Solid
Date Received: 12/06/22 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			.54 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:14	SHZ	EET HOU
Total/NA	Prep	3051A			.54 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81160	12/08/22 20:33	DP	EET HOU
Total/NA	Prep	3051A			.54 g	50 mL	80935	12/08/22 10:20	PB	EET HOU
Total/NA	Analysis	6020B		10			81257	12/09/22 14:30	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:41	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81171	12/09/22 10:14	ALL	EET HOU

Client Sample ID: Cell19-204-S-3-4-221205
Lab Sample ID: 860-38678-5
Date Collected: 12/05/22 12:16
Matrix: Solid
Date Received: 12/06/22 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			.57 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:16	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		10			81441	12/09/22 22:26	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:42	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-93-S-3-4-221205
Lab Sample ID: 860-38678-6
Date Collected: 12/05/22 13:06
Matrix: Solid
Date Received: 12/06/22 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			.58 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:19	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		10			81441	12/09/22 22:28	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:44	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-82-S-3-4-221205
Lab Sample ID: 860-38678-7
Date Collected: 12/05/22 13:25
Matrix: Solid
Date Received: 12/06/22 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			.58 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:21	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		10			81441	12/09/22 22:31	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38678-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-82-S-3-4-221205
Lab Sample ID: 860-38678-7
Date Collected: 12/05/22 13:25
Matrix: Solid
Date Received: 12/06/22 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	7471A			.55 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:45	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

Client Sample ID: Cell19-84-S-3-4-221205
Lab Sample ID: 860-38678-8
Date Collected: 12/05/22 13:40
Matrix: Solid
Date Received: 12/06/22 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			.57 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:24	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81112	12/09/22 09:36	PB	EET HOU
Total/NA	Analysis	6020B		10			81441	12/09/22 22:34	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81007	12/08/22 15:05	MCA	EET HOU
Total/NA	Analysis	7471A		1			81261	12/09/22 16:47	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			80997	12/08/22 11:21	ALL	EET HOU

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38678-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38678-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-38678-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38678-1	Cell20-187-S-3-4-221205	Solid	12/05/22 10:35	12/06/22 10:01
860-38678-2	Cell20-102-S-3-4-221205	Solid	12/05/22 10:54	12/06/22 10:01
860-38678-3	Cell20-204-S-3-4-221205	Solid	12/05/22 11:20	12/06/22 10:01
860-38678-4	Cell20-179-S-3-4-221205	Solid	12/05/22 11:40	12/06/22 10:01
860-38678-5	Cell19-204-S-3-4-221205	Solid	12/05/22 12:16	12/06/22 10:01
860-38678-6	Cell19-93-S-3-4-221205	Solid	12/05/22 13:06	12/06/22 10:01
860-38678-7	Cell19-82-S-3-4-221205	Solid	12/05/22 13:25	12/06/22 10:01
860-38678-8	Cell19-84-S-3-4-221205	Solid	12/05/22 13:40	12/06/22 10:01

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

Chain of Custody Record

860-38678 Chain of Custody

Environment Testing

Client Information	Sampler:	Lab PM: Kudchadkar Sachin G	163.1
Client Contact: Sarah Johnson	Phone: 432-230-3108	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	
Company: ARCADIS U.S. Inc.	PWSID:		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Midland	TAT Requested (days): Standard TAT		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)
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No		
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested		Other:
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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U	Zn	7471- Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N					
cell 20-187-S-3 4-221205	12522	1035		Solid								
cell 20-102-S-3-4-221205	12522	1054		Solid								
cell 20-204-S-3 4-221205	12522	1120		Solid								
cell 20-179-S-3-4 221205	120522	1140		Solid								
cell 19-204-S-3-4-221205	120522	1216		Solid								
cell 19-93-S-3-4-221205	120522	1306		Solid								
cell 19-82-S-3-4-221205	120522	1325		Solid								
cell 19-84-S-3 4-221205	120522	1340		Solid								
				Solid								
				Solid								
				Solid								

Temp: IR ID HOU-343
C/F +0.3 4.2
Corrected Temp. 4.5

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	12/6/22 1523	ARCADIS		12/6/22 10:01	Eurofins
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: 7/18/2023 11:20:27 AM
Page 27 of 28
1/19/2023 (Rev. 1)
Released to Imaging: 1/29/2025 3:31:29 PM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38678-1

Login Number: 38678 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	

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 1/17/2023 5:03:49 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38776-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/17/2023 5:03:49 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: 860-38776-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
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
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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

Job ID: 860-38776-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38776-1

REVISION

The report being provided is a revision of the original report sent on 12/29/2022. The report (revision 1) is being revised due to analyte list changed per client for 8015GRO.

Report revision history

Receipt
The samples were received on 12/7/2022 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1°C and 4.6°C

GC/MS VOA
Method 8260C: Sample is a bulk jar.Cell 18-133-S-3-4-221206 (860-38776-1), Cell 18-83-S-3-4-221206 (860-38776-4), Cell 17-199-S-3-4-221206 (860-38776-5), Cell 17-203-S-3-4-221206 (860-38776-6), Cell 17-6-S-3-4-221206 (860-38776-7), Cell 17-45-S-3-4-221206 (860-38776-8), Cell 21-61-S-3-4-221206 (860-38776-9), Cell 21-76-S-3-4-221206 (860-38776-10), Cell 21-47-S-3-4-221206 (860-38776-11), Cell 21-155-S-3-4-221206 (860-38776-12) and (860-38776-C-1-B MS)

Method 8260C: Sample is a bulk jar.Cell 18-92-S-3-4-221206 (860-38776-2), Cell 25-88-S-3-4-221206 (860-38776-13) and (860-38776-C-2-B MS)

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
Method 8015B_DRO: Surrogate o-Terphenyl recovered slightly high in the closing continuing calibration verification (CCV) associated with batch 240-555476 at 17.3%(criteria 15%). Diesel recovered within control limits and the samples associated with this CCV met surrogate criteria. After careful evaluation the data is reported.The associated samples are impacted: Cell 18-133-S-3-4-221206 (860-38776-1), Cell 18-92-S-3-4-221206 (860-38776-2), (LCS 240-555434/2-A) and (MB 240-555434/1-A).

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 U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-133-S-3-4-221206 Lab Sample ID: 860-38776-1

No Detections.

Client Sample ID: Cell 18-92-S-3-4-221206 Lab Sample ID: 860-38776-2

No Detections.

Client Sample ID: Cell 18-181-S-3-4-221206 Lab Sample ID: 860-38776-3

No Detections.

Client Sample ID: Cell 18-83-S-3-4-221206 Lab Sample ID: 860-38776-4

No Detections.

Client Sample ID: Cell 17-199-S-3-4-221206 Lab Sample ID: 860-38776-5

No Detections.

Client Sample ID: Cell 17-203-S-3-4-221206 Lab Sample ID: 860-38776-6

No Detections.

Client Sample ID: Cell 17-6-S-3-4-221206 Lab Sample ID: 860-38776-7

No Detections.

Client Sample ID: Cell 17-45-S-3-4-221206 Lab Sample ID: 860-38776-8

No Detections.

Client Sample ID: Cell 21-61-S-3-4-221206 Lab Sample ID: 860-38776-9

No Detections.

Client Sample ID: Cell 21-76-S-3-4-221206 Lab Sample ID: 860-38776-10

No Detections.

Client Sample ID: Cell 21-47-S-3-4-221206 Lab Sample ID: 860-38776-11

No Detections.

Client Sample ID: Cell 21-155-S-3-4-221206 Lab Sample ID: 860-38776-12

No Detections.

Client Sample ID: Cell 25-88-S-3-4-221206 Lab Sample ID: 860-38776-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-133-S-3-4-221206 Lab Sample ID: 860-38776-1

Date Collected: 12/06/22 08:21 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/09/22 10:21	12/09/22 13:53	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/09/22 10:21	12/09/22 13:53	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/09/22 10:21	12/09/22 13:53	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/09/22 10:21	12/09/22 13:53	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/09/22 10:21	12/09/22 13:53	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/09/22 10:21	12/09/22 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*56 - 150*	*12/09/22 10:21*	*12/09/22 13:53*	*1*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*	*12/09/22 10:21*	*12/09/22 13:53*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*12/09/22 10:21*	*12/09/22 13:53*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*12/09/22 10:21*	*12/09/22 13:53*	*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	2.50	U	10.0	2.50	mg/Kg		12/12/22 12:26	12/12/22 13:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/12/22 12:26*	*12/12/22 13:17*	*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]	34.4	U	49.7	34.4	mg/Kg		12/12/22 08:30	12/12/22 16:17	1
Oil Range Organics (C28-C36)	34.4	U	49.7	34.4	mg/Kg		12/12/22 08:30	12/12/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*39 - 120*	*12/12/22 08:30*	*12/12/22 16:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.9**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**88.1**				%			12/10/22 14:52	1

Client Sample ID: Cell 18-92-S-3-4-221206 Lab Sample ID: 860-38776-2

Date Collected: 12/06/22 08:36 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000736	U	0.00100	0.000736	mg/Kg		12/09/22 10:21	12/09/22 13:42	1
Toluene	0.00192	U	0.00502	0.00192	mg/Kg		12/09/22 10:21	12/09/22 13:42	1
Ethylbenzene	0.000668	U	0.00100	0.000668	mg/Kg		12/09/22 10:21	12/09/22 13:42	1
m,p-Xylenes	0.000803	U	0.00201	0.000803	mg/Kg		12/09/22 10:21	12/09/22 13:42	1
o-Xylene	0.000904	U	0.00100	0.000904	mg/Kg		12/09/22 10:21	12/09/22 13:42	1
Xylenes, Total	0.000904	U	0.00201	0.000904	mg/Kg		12/09/22 10:21	12/09/22 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/09/22 10:21*	*12/09/22 13:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*12/09/22 10:21*	*12/09/22 13:42*	*1*
Dibromofluoromethane (Surr)	*89*		*53 - 142*	*12/09/22 10:21*	*12/09/22 13:42*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*12/09/22 10:21*	*12/09/22 13:42*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-92-S-3-4-221206 Lab Sample ID: 860-38776-2
Date Collected: 12/06/22 08:36 **Matrix: Solid**
Date Received: 12/07/22 10:45

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	2.49	U	9.96	2.49	mg/Kg		12/12/22 12:26	12/12/22 13:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/12/22 12:26*	*12/12/22 13:48*	*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]	33.0	U	47.7	33.0	mg/Kg		12/12/22 08:30	12/12/22 16:44	1
Oil Range Organics (C28-C36)	33.0	U	47.7	33.0	mg/Kg		12/12/22 08:30	12/12/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*39 - 120*	*12/12/22 08:30*	*12/12/22 16:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.7**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**95.3**				%			12/10/22 14:52	1

Client Sample ID: Cell 18-181-S-3-4-221206 Lab Sample ID: 860-38776-3
Date Collected: 12/06/22 08:50 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	U	0.000996	0.000730	mg/Kg		12/09/22 10:21	12/09/22 13:55	1
Toluene	0.00190	U	0.00498	0.00190	mg/Kg		12/09/22 10:21	12/09/22 13:55	1
Ethylbenzene	0.000662	U	0.000996	0.000662	mg/Kg		12/09/22 10:21	12/09/22 13:55	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		12/09/22 10:21	12/09/22 13:55	1
o-Xylene	0.000896	U	0.000996	0.000896	mg/Kg		12/09/22 10:21	12/09/22 13:55	1
Xylenes, Total	0.000896	U	0.00199	0.000896	mg/Kg		12/09/22 10:21	12/09/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*12/09/22 10:21*	*12/09/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/09/22 10:21*	*12/09/22 13:55*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/09/22 10:21*	*12/09/22 13:55*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/09/22 10:21*	*12/09/22 13:55*	*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	2.50	U	10.0	2.50	mg/Kg		12/12/22 12:26	12/12/22 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/12/22 12:26*	*12/12/22 14:19*	*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]	35.7	U	51.7	35.7	mg/Kg		12/12/22 08:30	12/12/22 13:36	1
Oil Range Organics (C28-C36)	35.7	U	51.7	35.7	mg/Kg		12/12/22 08:30	12/12/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*72*		*39 - 120*	*12/12/22 08:30*	*12/12/22 13:36*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-181-S-3-4-221206 Lab Sample ID: 860-38776-3

Date Collected: 12/06/22 08:50 **Matrix: Solid**
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.7				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	90.4				%			12/10/22 14:52	1

Client Sample ID: Cell 18-83-S-3-4-221206 Lab Sample ID: 860-38776-4

Date Collected: 12/06/22 09:10 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	U	0.000996	0.000730	mg/Kg		12/09/22 10:21	12/09/22 18:24	1
Toluene	0.00190	U	0.00498	0.00190	mg/Kg		12/09/22 10:21	12/09/22 18:24	1
Ethylbenzene	0.000662	U	0.000996	0.000662	mg/Kg		12/09/22 10:21	12/09/22 18:24	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		12/09/22 10:21	12/09/22 18:24	1
o-Xylene	0.000896	U	0.000996	0.000896	mg/Kg		12/09/22 10:21	12/09/22 18:24	1
Xylenes, Total	0.000896	U	0.00199	0.000896	mg/Kg		12/09/22 10:21	12/09/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*56 - 150*	*12/09/22 10:21*	*12/09/22 18:24*	*1*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*	*12/09/22 10:21*	*12/09/22 18:24*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*12/09/22 10:21*	*12/09/22 18:24*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*	*12/09/22 10:21*	*12/09/22 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	2.52	U	10.1	2.52	mg/Kg		12/12/22 12:26	12/12/22 14:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*12/12/22 12:26*	*12/12/22 14:51*	*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]	34.1	U	49.3	34.1	mg/Kg		12/12/22 08:30	12/12/22 14:02	1
Oil Range Organics (C28-C36)	34.1	U	49.3	34.1	mg/Kg		12/12/22 08:30	12/12/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*39 - 120*	*12/12/22 08:30*	*12/12/22 14:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.4				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	94.6				%			12/10/22 14:52	1

Client Sample ID: Cell 17-199-S-3-4-221206 Lab Sample ID: 860-38776-5

Date Collected: 12/06/22 09:39 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000726	U	0.000990	0.000726	mg/Kg		12/09/22 10:21	12/09/22 18:46	1
Toluene	0.00189	U	0.00495	0.00189	mg/Kg		12/09/22 10:21	12/09/22 18:46	1
Ethylbenzene	0.000658	U	0.000990	0.000658	mg/Kg		12/09/22 10:21	12/09/22 18:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-199-S-3-4-221206 Lab Sample ID: 860-38776-5

Date Collected: 12/06/22 09:39 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		12/09/22 10:21	12/09/22 18:46	1
o-Xylene	0.000891	U	0.000990	0.000891	mg/Kg		12/09/22 10:21	12/09/22 18:46	1
Xylenes, Total	0.000891	U	0.00198	0.000891	mg/Kg		12/09/22 10:21	12/09/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*56 - 150*	*12/09/22 10:21*	*12/09/22 18:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/09/22 10:21*	*12/09/22 18:46*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*12/09/22 10:21*	*12/09/22 18:46*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*	*12/09/22 10:21*	*12/09/22 18:46*	*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	2.51	U	10.0	2.51	mg/Kg		12/12/22 12:26	12/12/22 15:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/12/22 12:26*	*12/12/22 15:22*	*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]	33.9	U	49.0	33.9	mg/Kg		12/12/22 08:30	12/12/22 14:29	1
Oil Range Organics (C28-C36)	33.9	U	49.0	33.9	mg/Kg		12/12/22 08:30	12/12/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*39 - 120*	*12/12/22 08:30*	*12/12/22 14:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.9**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**95.1**				%			12/10/22 14:52	1

Client Sample ID: Cell 17-203-S-3-4-221206 Lab Sample ID: 860-38776-6

Date Collected: 12/06/22 09:53 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	U	0.000996	0.000730	mg/Kg		12/09/22 10:21	12/09/22 19:08	1
Toluene	0.00190	U	0.00498	0.00190	mg/Kg		12/09/22 10:21	12/09/22 19:08	1
Ethylbenzene	0.000662	U	0.000996	0.000662	mg/Kg		12/09/22 10:21	12/09/22 19:08	1
m,p-Xylenes	0.000797	U	0.00199	0.000797	mg/Kg		12/09/22 10:21	12/09/22 19:08	1
o-Xylene	0.000896	U	0.000996	0.000896	mg/Kg		12/09/22 10:21	12/09/22 19:08	1
Xylenes, Total	0.000896	U	0.00199	0.000896	mg/Kg		12/09/22 10:21	12/09/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*56 - 150*	*12/09/22 10:21*	*12/09/22 19:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*12/09/22 10:21*	*12/09/22 19:08*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*12/09/22 10:21*	*12/09/22 19:08*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*	*12/09/22 10:21*	*12/09/22 19:08*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-203-S-3-4-221206 Lab Sample ID: 860-38776-6

Date Collected: 12/06/22 09:53 **Matrix: Solid**
Date Received: 12/07/22 10:45

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	2.49	U	9.96	2.49	mg/Kg		12/12/22 12:26	12/12/22 15:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/22 12:26*	*12/12/22 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]	36.2	U	52.4	36.2	mg/Kg		12/12/22 08:30	12/12/22 14:56	1
Oil Range Organics (C28-C36)	36.2	U	52.4	36.2	mg/Kg		12/12/22 08:30	12/12/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*83*		*39 - 120*	*12/12/22 08:30*	*12/12/22 14:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.2**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**93.8**				%			12/10/22 14:52	1

Client Sample ID: Cell 17-6-S-3-4-221206 Lab Sample ID: 860-38776-7

Date Collected: 12/06/22 10:13 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000736	U	0.00100	0.000736	mg/Kg		12/09/22 10:21	12/09/22 19:31	1
Toluene	0.00192	U	0.00502	0.00192	mg/Kg		12/09/22 10:21	12/09/22 19:31	1
Ethylbenzene	0.000668	U	0.00100	0.000668	mg/Kg		12/09/22 10:21	12/09/22 19:31	1
m,p-Xylenes	0.000803	U	0.00201	0.000803	mg/Kg		12/09/22 10:21	12/09/22 19:31	1
o-Xylene	0.000904	U	0.00100	0.000904	mg/Kg		12/09/22 10:21	12/09/22 19:31	1
Xylenes, Total	0.000904	U	0.00201	0.000904	mg/Kg		12/09/22 10:21	12/09/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*56 - 150*	*12/09/22 10:21*	*12/09/22 19:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/09/22 10:21*	*12/09/22 19:31*	*1*
Dibromofluoromethane (Surr)	*108*		*53 - 142*	*12/09/22 10:21*	*12/09/22 19:31*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*	*12/09/22 10:21*	*12/09/22 19:31*	*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	2.49	U	9.94	2.49	mg/Kg		12/12/22 12:26	12/12/22 16:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/12/22 12:26*	*12/12/22 16:26*	*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]	34.4	U	49.8	34.4	mg/Kg		12/12/22 08:30	12/12/22 15:23	1
Oil Range Organics (C28-C36)	34.4	U	49.8	34.4	mg/Kg		12/12/22 08:30	12/12/22 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*61*		*39 - 120*	*12/12/22 08:30*	*12/12/22 15:23*	*1*

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-6-S-3-4-221206 Lab Sample ID: 860-38776-7

Date Collected: 12/06/22 10:13 **Matrix: Solid**
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.1				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	90.9				%			12/10/22 14:52	1

Client Sample ID: Cell 17-45-S-3-4-221206 Lab Sample ID: 860-38776-8

Date Collected: 12/06/22 10:29 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000734	U	0.00100	0.000734	mg/Kg		12/09/22 10:21	12/09/22 19:53	1
Toluene	0.00192	U	0.00501	0.00192	mg/Kg		12/09/22 10:21	12/09/22 19:53	1
Ethylbenzene	0.000666	U	0.00100	0.000666	mg/Kg		12/09/22 10:21	12/09/22 19:53	1
m,p-Xylenes	0.000802	U	0.00200	0.000802	mg/Kg		12/09/22 10:21	12/09/22 19:53	1
o-Xylene	0.000902	U	0.00100	0.000902	mg/Kg		12/09/22 10:21	12/09/22 19:53	1
Xylenes, Total	0.000902	U	0.00200	0.000902	mg/Kg		12/09/22 10:21	12/09/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*	*12/09/22 10:21*	*12/09/22 19:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/09/22 10:21*	*12/09/22 19:53*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 142*	*12/09/22 10:21*	*12/09/22 19:53*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*12/09/22 10:21*	*12/09/22 19:53*	*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	2.48	U	9.90	2.48	mg/Kg		12/12/22 12:26	12/12/22 16:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/22 12:26*	*12/12/22 16:57*	*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]	35.4	U	51.2	35.4	mg/Kg		12/12/22 08:30	12/12/22 15:50	1
Oil Range Organics (C28-C36)	35.4	U	51.2	35.4	mg/Kg		12/12/22 08:30	12/12/22 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*39 - 120*	*12/12/22 08:30*	*12/12/22 15:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.7				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	93.3				%			12/10/22 14:52	1

Client Sample ID: Cell 21-61-S-3-4-221206 Lab Sample ID: 860-38776-9

Date Collected: 12/06/22 11:13 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000732	U	0.000998	0.000732	mg/Kg		12/09/22 10:21	12/09/22 20:16	1
Toluene	0.00191	U	0.00499	0.00191	mg/Kg		12/09/22 10:21	12/09/22 20:16	1
Ethylbenzene	0.000664	U	0.000998	0.000664	mg/Kg		12/09/22 10:21	12/09/22 20:16	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-61-S-3-4-221206 Lab Sample ID: 860-38776-9

Date Collected: 12/06/22 11:13 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.000798	U	0.00200	0.000798	mg/Kg		12/09/22 10:21	12/09/22 20:16	1
o-Xylene	0.000898	U	0.000998	0.000898	mg/Kg		12/09/22 10:21	12/09/22 20:16	1
Xylenes, Total	0.000898	U	0.00200	0.000898	mg/Kg		12/09/22 10:21	12/09/22 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*56 - 150*	*12/09/22 10:21*	*12/09/22 20:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/09/22 10:21*	*12/09/22 20:16*	*1*
Dibromofluoromethane (Surr)	*110*		*53 - 142*	*12/09/22 10:21*	*12/09/22 20:16*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*	*12/09/22 10:21*	*12/09/22 20:16*	*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	2.52	U	10.1	2.52	mg/Kg		12/12/22 12:26	12/12/22 17:28	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/12/22 12:26*	*12/12/22 17:28*	*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]	34.7	U	50.2	34.7	mg/Kg		12/12/22 08:30	12/12/22 16:17	1
Oil Range Organics (C28-C36)	34.7	U	50.2	34.7	mg/Kg		12/12/22 08:30	12/12/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*64*		*39 - 120*	*12/12/22 08:30*	*12/12/22 16:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.8**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**89.2**				%			12/10/22 14:52	1

Client Sample ID: Cell 21-76-S-3-4-221206 Lab Sample ID: 860-38776-10

Date Collected: 12/06/22 11:29 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000726	U	0.000990	0.000726	mg/Kg		12/09/22 10:21	12/09/22 20:38	1
Toluene	0.00189	U	0.00495	0.00189	mg/Kg		12/09/22 10:21	12/09/22 20:38	1
Ethylbenzene	0.000658	U	0.000990	0.000658	mg/Kg		12/09/22 10:21	12/09/22 20:38	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		12/09/22 10:21	12/09/22 20:38	1
o-Xylene	0.000891	U	0.000990	0.000891	mg/Kg		12/09/22 10:21	12/09/22 20:38	1
Xylenes, Total	0.000891	U	0.00198	0.000891	mg/Kg		12/09/22 10:21	12/09/22 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*56 - 150*	*12/09/22 10:21*	*12/09/22 20:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/09/22 10:21*	*12/09/22 20:38*	*1*
Dibromofluoromethane (Surr)	*110*		*53 - 142*	*12/09/22 10:21*	*12/09/22 20:38*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*12/09/22 10:21*	*12/09/22 20:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-76-S-3-4-221206 Lab Sample ID: 860-38776-10

Date Collected: 12/06/22 11:29 **Matrix: Solid**
Date Received: 12/07/22 10:45

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	2.52	U	10.1	2.52	mg/Kg		12/12/22 12:26	12/13/22 15:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/22 12:26*	*12/13/22 15:32*	*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]	35.8	U	51.8	35.8	mg/Kg		12/12/22 08:30	12/12/22 16:44	1
Oil Range Organics (C28-C36)	35.8	U	51.8	35.8	mg/Kg		12/12/22 08:30	12/12/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*39 - 120*	*12/12/22 08:30*	*12/12/22 16:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**				%			12/10/22 14:52	1
Percent Solids (EPA Moisture)	**85.9**				%			12/10/22 14:52	1

Client Sample ID: Cell 21-47-S-3-4-221206 Lab Sample ID: 860-38776-11

Date Collected: 12/06/22 12:15 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000739	U	0.00101	0.000739	mg/Kg		12/09/22 10:21	12/09/22 21:01	1
Toluene	0.00193	U	0.00504	0.00193	mg/Kg		12/09/22 10:21	12/09/22 21:01	1
Ethylbenzene	0.000670	U	0.00101	0.000670	mg/Kg		12/09/22 10:21	12/09/22 21:01	1
m,p-Xylenes	0.000806	U	0.00202	0.000806	mg/Kg		12/09/22 10:21	12/09/22 21:01	1
o-Xylene	0.000907	U	0.00101	0.000907	mg/Kg		12/09/22 10:21	12/09/22 21:01	1
Xylenes, Total	0.000907	U	0.00202	0.000907	mg/Kg		12/09/22 10:21	12/09/22 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*56 - 150*	*12/09/22 10:21*	*12/09/22 21:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/09/22 10:21*	*12/09/22 21:01*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 142*	*12/09/22 10:21*	*12/09/22 21:01*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*12/09/22 10:21*	*12/09/22 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	2.52	U	10.1	2.52	mg/Kg		12/12/22 12:26	12/13/22 02:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/22 12:26*	*12/13/22 02:21*	*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]	34.5	U	49.9	34.5	mg/Kg		12/12/22 08:30	12/12/22 17:10	1
Oil Range Organics (C28-C36)	34.5	U	49.9	34.5	mg/Kg		12/12/22 08:30	12/12/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*71*		*39 - 120*	*12/12/22 08:30*	*12/12/22 17:10*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-47-S-3-4-221206 Lab Sample ID: 860-38776-11

Date Collected: 12/06/22 12:15 **Matrix: Solid**
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.7				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	92.3				%			12/10/22 14:58	1

Client Sample ID: Cell 21-155-S-3-4-221206 Lab Sample ID: 860-38776-12

Date Collected: 12/06/22 12:31 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/09/22 10:21	12/09/22 21:23	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/09/22 10:21	12/09/22 21:23	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/09/22 10:21	12/09/22 21:23	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/09/22 10:21	12/09/22 21:23	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/09/22 10:21	12/09/22 21:23	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/09/22 10:21	12/09/22 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*56 - 150*	*12/09/22 10:21*	*12/09/22 21:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/09/22 10:21*	*12/09/22 21:23*	*1*
Dibromofluoromethane (Surr)	*111*		*53 - 142*	*12/09/22 10:21*	*12/09/22 21:23*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*	*12/09/22 10:21*	*12/09/22 21:23*	*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	2.52	U	10.1	2.52	mg/Kg		12/12/22 12:26	12/13/22 02:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/12/22 12:26*	*12/13/22 02:52*	*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]	35.6	U	51.5	35.6	mg/Kg		12/12/22 08:30	12/12/22 17:37	1
Oil Range Organics (C28-C36)	35.6	U	51.5	35.6	mg/Kg		12/12/22 08:30	12/12/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*61*		*39 - 120*	*12/12/22 08:30*	*12/12/22 17:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.2				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	90.8				%			12/10/22 14:58	1

Client Sample ID: Cell 25-88-S-3-4-221206 Lab Sample ID: 860-38776-13

Date Collected: 12/06/22 13:20 **Matrix: Solid**
Date Received: 12/07/22 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/09/22 10:21	12/09/22 17:01	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/09/22 10:21	12/09/22 17:01	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/09/22 10:21	12/09/22 17:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

Client Sample ID: Cell 25-88-S-3-4-221206

Date Collected: 12/06/22 13:20
Date Received: 12/07/22 10:45

Lab Sample ID: 860-38776-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/09/22 10:21	12/09/22 17:01	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/09/22 10:21	12/09/22 17:01	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/09/22 10:21	12/09/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*56 - 150*	*12/09/22 10:21*	*12/09/22 17:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*12/09/22 10:21*	*12/09/22 17:01*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*12/09/22 10:21*	*12/09/22 17:01*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*12/09/22 10:21*	*12/09/22 17:01*	*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	2.50	U	10.0	2.50	mg/Kg		12/12/22 12:26	12/13/22 03:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*12/12/22 12:26*	*12/13/22 03:24*	*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]	34.6	U	50.1	34.6	mg/Kg		12/12/22 08:30	12/12/22 18:04	1
Oil Range Organics (C28-C36)	34.6	U	50.1	34.6	mg/Kg		12/12/22 08:30	12/12/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*39 - 120*	*12/12/22 08:30*	*12/12/22 18:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.9**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**90.1**				%			12/10/22 14:58	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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)
860-38776-1	Cell 18-133-S-3-4-221206	117	108	106	115
860-38776-1 MS	Cell 18-133-S-3-4-221206	116	103	103	114
860-38776-2	Cell 18-92-S-3-4-221206	104	96	89	102
860-38776-2 MS	Cell 18-92-S-3-4-221206	100	94	90	105
860-38776-3	Cell 18-181-S-3-4-221206	108	100	94	98
860-38776-3 MS	Cell 18-181-S-3-4-221206	100	103	108	96
860-38776-4	Cell 18-83-S-3-4-221206	116	105	109	113
860-38776-5	Cell 17-199-S-3-4-221206	120	101	109	112
860-38776-6	Cell 17-203-S-3-4-221206	119	99	105	112
860-38776-7	Cell 17-6-S-3-4-221206	124	102	108	114
860-38776-8	Cell 17-45-S-3-4-221206	114	100	109	115
860-38776-9	Cell 21-61-S-3-4-221206	119	100	110	114
860-38776-10	Cell 21-76-S-3-4-221206	122	102	110	115
860-38776-11	Cell 21-47-S-3-4-221206	118	100	106	115
860-38776-12	Cell 21-155-S-3-4-221206	117	101	111	115
860-38776-13	Cell 25-88-S-3-4-221206	109	93	94	104
LCS 860-81103/3	Lab Control Sample	102	105	100	119
LCS 860-81105/3	Lab Control Sample	98	97	91	106
LCS 860-81108/3	Lab Control Sample	98	101	100	98
LCSD 860-81103/4	Lab Control Sample Dup	102	105	99	117
LCSD 860-81105/4	Lab Control Sample Dup	94	97	90	108
LCSD 860-81108/4	Lab Control Sample Dup	100	100	103	98
MB 860-81103/8	Method Blank	107	104	103	116
MB 860-81105/7	Method Blank	108	96	91	103
MB 860-81108/7	Method Blank	103	99	93	100

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)
860-38776-1	Cell 18-133-S-3-4-221206	85
860-38776-2	Cell 18-92-S-3-4-221206	85
860-38776-2 MS	Cell 18-92-S-3-4-221206	106
860-38776-3	Cell 18-181-S-3-4-221206	93
860-38776-4	Cell 18-83-S-3-4-221206	91
860-38776-5	Cell 17-199-S-3-4-221206	93
860-38776-6	Cell 17-203-S-3-4-221206	92
860-38776-7	Cell 17-6-S-3-4-221206	97
860-38776-8	Cell 17-45-S-3-4-221206	92
860-38776-9	Cell 21-61-S-3-4-221206	94
860-38776-10	Cell 21-76-S-3-4-221206	92
860-38776-11	Cell 21-47-S-3-4-221206	92

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38776-1
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)
860-38776-12	Cell 21-155-S-3-4-221206	94
860-38776-13	Cell 25-88-S-3-4-221206	93
LCS 860-81405/4	Lab Control Sample	97
LCS 860-81517/4	Lab Control Sample	103
LCS 860-81639/4	Lab Control Sample	96
LCSD 860-81405/5	Lab Control Sample Dup	104
LCSD 860-81517/5	Lab Control Sample Dup	125
LCSD 860-81639/5	Lab Control Sample Dup	97
MB 860-81405/7	Method Blank	88
MB 860-81517/7	Method Blank	98
MB 860-81639/7	Method Blank	93

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	OTPH1 (39-120)
860-38776-1	Cell 18-133-S-3-4-221206	73
860-38776-2	Cell 18-92-S-3-4-221206	79
860-38776-3	Cell 18-181-S-3-4-221206	72
860-38776-4	Cell 18-83-S-3-4-221206	66
860-38776-5	Cell 17-199-S-3-4-221206	74
860-38776-6	Cell 17-203-S-3-4-221206	83
860-38776-7	Cell 17-6-S-3-4-221206	61
860-38776-8	Cell 17-45-S-3-4-221206	69
860-38776-9	Cell 21-61-S-3-4-221206	64
860-38776-10	Cell 21-76-S-3-4-221206	76
860-38776-11	Cell 21-47-S-3-4-221206	71
860-38776-12	Cell 21-155-S-3-4-221206	61
860-38776-13	Cell 25-88-S-3-4-221206	79
LCS 240-555434/2-A	Lab Control Sample	82
MB 240-555434/1-A	Method Blank	74

Surrogate Legend

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: MB 860-81103/8
Matrix: Solid
Analysis Batch: 81103

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			12/09/22 13:30	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/09/22 13:30	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/09/22 13:30	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/09/22 13:30	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/09/22 13:30	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/09/22 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*		*12/09/22 13:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*		*12/09/22 13:30*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*		*12/09/22 13:30*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*12/09/22 13:30*	*1*

Lab Sample ID: LCS 860-81103/3
Matrix: Solid
Analysis Batch: 81103

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	0.04056		mg/Kg		81	66 - 142
Toluene	0.0500	0.04858		mg/Kg		97	74 - 130
Ethylbenzene	0.0500	0.05149		mg/Kg		103	80 - 130
m,p-Xylenes	0.0500	0.05181		mg/Kg		104	78 - 130
o-Xylene	0.0500	0.05207		mg/Kg		104	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 860-81103/4
Matrix: Solid
Analysis Batch: 81103

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	0.03934		mg/Kg		79	66 - 142	3	25
Toluene	0.0500	0.04724		mg/Kg		94	74 - 130	3	25
Ethylbenzene	0.0500	0.04917		mg/Kg		98	80 - 130	5	25
m,p-Xylenes	0.0500	0.04918		mg/Kg		98	78 - 130	5	25
o-Xylene	0.0500	0.04993		mg/Kg		100	79 - 130	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*117*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: MB 860-81105/7
Matrix: Solid
Analysis Batch: 81105

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			12/09/22 13:22	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/09/22 13:22	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/09/22 13:22	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/09/22 13:22	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/09/22 13:22	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/09/22 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*		*12/09/22 13:22*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*		*12/09/22 13:22*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*		*12/09/22 13:22*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/09/22 13:22*	*1*

Lab Sample ID: LCS 860-81105/3
Matrix: Solid
Analysis Batch: 81105

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	0.04047		mg/Kg		81	66 - 142
Toluene	0.0500	0.04471		mg/Kg		89	74 - 130
Ethylbenzene	0.0500	0.04917		mg/Kg		98	80 - 130
m,p-Xylenes	0.0500	0.04809		mg/Kg		96	78 - 130
o-Xylene	0.0500	0.04803		mg/Kg		96	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*91*		*53 - 142*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 860-81105/4
Matrix: Solid
Analysis Batch: 81105

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	0.04897		mg/Kg		98	66 - 142	19	25
Toluene	0.0500	0.05429		mg/Kg		109	74 - 130	19	25
Ethylbenzene	0.0500	0.05956		mg/Kg		119	80 - 130	19	25
m,p-Xylenes	0.0500	0.05818		mg/Kg		116	78 - 130	19	25
o-Xylene	0.0500	0.05793		mg/Kg		116	79 - 130	19	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*90*		*53 - 142*
Toluene-d8 (Surr)	*108*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: MB 860-81108/7
Matrix: Solid
Analysis Batch: 81108

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			12/09/22 13:31	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/09/22 13:31	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/09/22 13:31	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/09/22 13:31	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/09/22 13:31	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/09/22 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*12/09/22 13:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*		*12/09/22 13:31*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*12/09/22 13:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/09/22 13:31*	*1*

Lab Sample ID: LCS 860-81108/3
Matrix: Solid
Analysis Batch: 81108

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	0.05676		mg/Kg		114	66 - 142
Toluene	0.0500	0.05687		mg/Kg		114	74 - 130
Ethylbenzene	0.0500	0.05927		mg/Kg		119	80 - 130
m,p-Xylenes	0.0500	0.06156		mg/Kg		123	78 - 130
o-Xylene	0.0500	0.05925		mg/Kg		119	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 860-81108/4
Matrix: Solid
Analysis Batch: 81108

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	0.05471		mg/Kg		109	66 - 142	4	25
Toluene	0.0500	0.05678		mg/Kg		114	74 - 130	0	25
Ethylbenzene	0.0500	0.05857		mg/Kg		117	80 - 130	1	25
m,p-Xylenes	0.0500	0.06146		mg/Kg		123	78 - 130	0	25
o-Xylene	0.0500	0.05816		mg/Kg		116	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: 860-38776-1 MS
Matrix: Solid
Analysis Batch: 81103

Client Sample ID: Cell 18-133-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000740	U	0.0504	0.04005		mg/Kg		79	71 - 119
Toluene	0.00193	U	0.0504	0.04578		mg/Kg		91	74 - 122
Ethylbenzene	0.000672	U	0.0504	0.04823		mg/Kg		96	80 - 123
m,p-Xylenes	0.000808	U	0.0504	0.04741		mg/Kg		94	78 - 127
o-Xylene	0.000909	U	0.0504	0.04849		mg/Kg		96	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: 860-38776-2 MS
Matrix: Solid
Analysis Batch: 81105

Client Sample ID: Cell 18-92-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000736	U	0.0504	0.04657		mg/Kg		92	71 - 119
Toluene	0.00192	U	0.0504	0.05163		mg/Kg		102	74 - 122
Ethylbenzene	0.000668	U	0.0504	0.05679		mg/Kg		113	80 - 123
m,p-Xylenes	0.000803	U	0.0504	0.05575		mg/Kg		111	78 - 127
o-Xylene	0.000904	U	0.0504	0.05637		mg/Kg		112	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*
Dibromofluoromethane (Surr)	*90*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 860-38776-3 MS
Matrix: Solid
Analysis Batch: 81108

Client Sample ID: Cell 18-181-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000730	U	0.0503	0.04751		mg/Kg		94	71 - 119
Toluene	0.00190	U	0.0503	0.04606		mg/Kg		92	74 - 122
Ethylbenzene	0.000662	U	0.0503	0.04825		mg/Kg		96	80 - 123
m,p-Xylenes	0.000797	U	0.0503	0.04881		mg/Kg		97	78 - 127
o-Xylene	0.000896	U	0.0503	0.04739		mg/Kg		94	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*108*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: MB 860-81405/7
Matrix: Solid
Analysis Batch: 81405

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			12/12/22 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*12/12/22 12:18*	*1*

Lab Sample ID: LCS 860-81405/4
Matrix: Solid
Analysis Batch: 81405

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 860-81405/5
Matrix: Solid
Analysis Batch: 81405

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

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

Lab Sample ID: 860-38776-2 MS
Matrix: Solid
Analysis Batch: 81405

Client Sample ID: Cell 18-92-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81450

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 860-81517/7
Matrix: Solid
Analysis Batch: 81517

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			12/13/22 01:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/13/22 01:50*	*1*

Lab Sample ID: LCS 860-81517/4
Matrix: Solid
Analysis Batch: 81517

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

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

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: LCSD 860-81517/5
Matrix: Solid
Analysis Batch: 81517

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130

Lab Sample ID: MB 860-81639/7
Matrix: Solid
Analysis Batch: 81639

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			12/13/22 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		12/13/22 14:30	1

Lab Sample ID: LCS 860-81639/4
Matrix: Solid
Analysis Batch: 81639

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 860-81639/5
Matrix: Solid
Analysis Batch: 81639

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 240-555434/1-A
Matrix: Solid
Analysis Batch: 555476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		12/12/22 08:30	12/12/22 13:36	1
Oil Range Organics (C28-C36)	34.6	U	50.0	34.6	mg/Kg		12/12/22 08:30	12/12/22 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		39 - 120	12/12/22 08:30	12/12/22 13:36	1

Lab Sample ID: LCS 240-555434/2-A
Matrix: Solid
Analysis Batch: 555476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]			250	181.2		mg/Kg		72	49 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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

Lab Sample ID: LCS 240-555434/2-A
Matrix: Solid
Analysis Batch: 555476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555434

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*82*		*39 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-81302/1
Matrix: Solid
Analysis Batch: 81302

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.06				%			12/10/22 14:58	1
Percent Solids	100.1				%			12/10/22 14:58	1

Lab Sample ID: 860-38776-11 DU
Matrix: Solid
Analysis Batch: 81302

Client Sample ID: Cell 21-47-S-3-4-221206
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.7			8.3		%				7	20
Percent Solids	92.3			91.8		%				0.6	20

Lab Sample ID: MB 860-81303/1
Matrix: Solid
Analysis Batch: 81303

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.03				%			12/10/22 14:52	1
Percent Solids	100				%			12/10/22 14:52	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

GC/MS VOA

Analysis Batch: 81103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	8260C	81149
MB 860-81103/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-81103/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-81103/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-38776-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	8260C	81149

Analysis Batch: 81105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	8260C	81149
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	8260C	81149
MB 860-81105/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-81105/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-81105/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-38776-2 MS	Cell 18-92-S-3-4-221206	Total/NA	Solid	8260C	81149

Analysis Batch: 81108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	8260C	81149
MB 860-81108/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-81108/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-81108/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-38776-3 MS	Cell 18-181-S-3-4-221206	Total/NA	Solid	8260C	81149

Prep Batch: 81149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-2 MS	Cell 18-92-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-3 MS	Cell 18-181-S-3-4-221206	Total/NA	Solid	5030C	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

GC VOA

Analysis Batch: 81405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	8015D	81450
MB 860-81405/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-81405/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81405/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-38776-2 MS	Cell 18-92-S-3-4-221206	Total/NA	Solid	8015D	81450

Prep Batch: 81450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	5030C	
860-38776-2 MS	Cell 18-92-S-3-4-221206	Total/NA	Solid	5030C	

Analysis Batch: 81517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	8015D	81450
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	8015D	81450
MB 860-81517/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-81517/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81517/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

Analysis Batch: 81639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	8015D	81450
MB 860-81639/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-81639/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81639/5	Lab Control Sample Dup	Total/NA	Solid	8015D	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

GC Semi VOA

Prep Batch: 555434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	3546	
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	3546	
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	3546	
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	3546	
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	3546	
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	3546	
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	3546	
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	3546	
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	3546	
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	3546	
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	3546	
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	3546	
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	3546	
MB 240-555434/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-555434/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 555476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	8015B	555434
MB 240-555434/1-A	Method Blank	Total/NA	Solid	8015B	555434
LCS 240-555434/2-A	Lab Control Sample	Total/NA	Solid	8015B	555434

Analysis Batch: 555478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	8015B	555434
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	8015B	555434

General Chemistry

Analysis Batch: 81302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	Moisture	
MB 860-81302/1	Method Blank	Total/NA	Solid	Moisture	
860-38776-11 DU	Cell 21-47-S-3-4-221206	Total/NA	Solid	Moisture	

Analysis Batch: 81303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

General Chemistry (Continued)

Analysis Batch: 81303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38776-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	Moisture	
860-38776-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	Moisture	
MB 860-81303/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-133-S-3-4-221206
Lab Sample ID: 860-38776-1
Date Collected: 12/06/22 08:21
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 13:53	KLV	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 13:17	AN	EET HOU
Total/NA	Prep	3546			10.06 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555476	12/12/22 16:17	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 18-92-S-3-4-221206
Lab Sample ID: 860-38776-2
Date Collected: 12/06/22 08:36
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81105	12/09/22 13:42	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 13:48	AN	EET HOU
Total/NA	Prep	3546			10.48 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555476	12/12/22 16:44	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 18-181-S-3-4-221206
Lab Sample ID: 860-38776-3
Date Collected: 12/06/22 08:50
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81108	12/09/22 13:55	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 14:19	AN	EET HOU
Total/NA	Prep	3546			9.68 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 13:36	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 18-83-S-3-4-221206
Lab Sample ID: 860-38776-4
Date Collected: 12/06/22 09:10
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 18:24	KLV	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 14:51	AN	EET HOU
Total/NA	Prep	3546			10.14 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 14:02	EPF	EET CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-83-S-3-4-221206
Lab Sample ID: 860-38776-4
Date Collected: 12/06/22 09:10
Matrix: Solid
Date Received: 12/07/22 10:45

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			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 17-199-S-3-4-221206
Lab Sample ID: 860-38776-5
Date Collected: 12/06/22 09:39
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 18:46	KLV	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 15:22	AN	EET HOU
Total/NA	Prep	3546			10.20 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 14:29	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 17-203-S-3-4-221206
Lab Sample ID: 860-38776-6
Date Collected: 12/06/22 09:53
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 19:08	KLV	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 15:54	AN	EET HOU
Total/NA	Prep	3546			9.55 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 14:56	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 17-6-S-3-4-221206
Lab Sample ID: 860-38776-7
Date Collected: 12/06/22 10:13
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 19:31	KLV	EET HOU
Total/NA	Prep	5030C			5.03 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 16:26	AN	EET HOU
Total/NA	Prep	3546			10.04 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 15:23	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38776-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-45-S-3-4-221206
Lab Sample ID: 860-38776-8
Date Collected: 12/06/22 10:29
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 19:53	KLV	EET HOU
Total/NA	Prep	5030C			5.05 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 16:57	AN	EET HOU
Total/NA	Prep	3546			9.77 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 15:50	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 21-61-S-3-4-221206
Lab Sample ID: 860-38776-9
Date Collected: 12/06/22 11:13
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 20:16	KLV	EET HOU
Total/NA	Prep	5030C			4.97 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81405	12/12/22 17:28	AN	EET HOU
Total/NA	Prep	3546			9.96 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 16:17	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 21-76-S-3-4-221206
Lab Sample ID: 860-38776-10
Date Collected: 12/06/22 11:29
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 20:38	KLV	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81639	12/13/22 15:32	AN	EET HOU
Total/NA	Prep	3546			9.65 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 16:44	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81303	12/10/22 14:52	ALL	EET HOU

Client Sample ID: Cell 21-47-S-3-4-221206
Lab Sample ID: 860-38776-11
Date Collected: 12/06/22 12:15
Matrix: Solid
Date Received: 12/07/22 10:45

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	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 21:01	KLV	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 02:21	AN	EET HOU
Total/NA	Prep	3546			10.03 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 17:10	EPF	EET CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

Client Sample ID: Cell 21-47-S-3-4-221206
Date Collected: 12/06/22 12:15
Date Received: 12/07/22 10:45

Lab Sample ID: 860-38776-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 21-155-S-3-4-221206
Date Collected: 12/06/22 12:31
Date Received: 12/07/22 10:45

Lab Sample ID: 860-38776-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.95 g	5 mL	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81103	12/09/22 21:23	KLV	EET HOU
Total/NA	Prep	5030C			4.96 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 02:52	AN	EET HOU
Total/NA	Prep	3546			9.70 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 17:37	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 25-88-S-3-4-221206
Date Collected: 12/06/22 13:20
Date Received: 12/07/22 10:45

Lab Sample ID: 860-38776-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 g	5 mL	81149	12/09/22 10:21	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81105	12/09/22 17:01	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	81450	12/12/22 12:26	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 03:24	AN	EET HOU
Total/NA	Prep	3546			9.98 g	5 mL	555434	12/12/22 08:30	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555478	12/12/22 18:04	EPF	EET CAN
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38776-1
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	08-04-23
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	T104704215-22-48	12-19-22
Texas	TCEQ Water Supply	T104704215	12-27-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Laboratory: Eurofins Canton

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	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	12-28-22
Iowa	State	421	01-08-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Michigan	State	9135	02-27-23
Minnesota	NELAP	039-999-348	12-21-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38776-1

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 CAN
Moisture	Percent Moisture	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CAN
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 CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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: 860-38776-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38776-1	Cell 18-133-S-3-4-221206	Solid	12/06/22 08:21	12/07/22 10:45
860-38776-2	Cell 18-92-S-3-4-221206	Solid	12/06/22 08:36	12/07/22 10:45
860-38776-3	Cell 18-181-S-3-4-221206	Solid	12/06/22 08:50	12/07/22 10:45
860-38776-4	Cell 18-83-S-3-4-221206	Solid	12/06/22 09:10	12/07/22 10:45
860-38776-5	Cell 17-199-S-3-4-221206	Solid	12/06/22 09:39	12/07/22 10:45
860-38776-6	Cell 17-203-S-3-4-221206	Solid	12/06/22 09:53	12/07/22 10:45
860-38776-7	Cell 17-6-S-3-4-221206	Solid	12/06/22 10:13	12/07/22 10:45
860-38776-8	Cell 17-45-S-3-4-221206	Solid	12/06/22 10:29	12/07/22 10:45
860-38776-9	Cell 21-61-S-3-4-221206	Solid	12/06/22 11:13	12/07/22 10:45
860-38776-10	Cell 21-76-S-3-4-221206	Solid	12/06/22 11:29	12/07/22 10:45
860-38776-11	Cell 21-47-S-3-4-221206	Solid	12/06/22 12:15	12/07/22 10:45
860-38776-12	Cell 21-155-S-3-4-221206	Solid	12/06/22 12:31	12/07/22 10:45
860-38776-13	Cell 25-88-S-3-4-221206	Solid	12/06/22 13:20	12/07/22 10:45

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

Chain of Custody Record

860-38776 Chain of Custody

Environment Testing

Client Information	Sampler: Jerry Shoemaker	Lab PM: Kudchadkar Sachin G		1
Client Contact: Sarah Johnson	Phone: 432-230-7309	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested		
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: Jal Land Farm	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

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 [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO [C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 18-133-S-3-4-221206	12-6-22	0821	G	Solid			X		X	X	3	
Cell 18-92-S-3-4-221206	12-6-22	0836	G	Solid			X		X	X	3	
Cell 18-131-S-3-4-221206	12-6-22	0850	G	Solid			X		X	X	3	
Cell 18-83-S-3-4-221206	12-6-22	0910	G	Solid			X		X	X	3	
Cell 17-199-S-3-4-221206	12-6-22	0939	G	Solid			X		X	X	3	
Cell 17-203-S-3-4-221206	12-6-22	0953	G	Solid			X		X	X	3	
Cell 17-6-S-3-4-221206	12-6-22	1013	G	Solid			X		X	X	3	
Cell 17-45-S-3-4-221206	12-6-22	1029	G	Solid			X		X	X	3	
Cell 21-61-S-3-4-221206	12-6-22	1113	G	Solid			X		X	X	3	
Cell 21-76-S-3-4-221206	12-6-22	1129	G	Solid			X		X	X	3	
Cell 21-47-S-3-4 221206	12-6-22	1215	G	Solid			X		X	X	3	

Temp: 4.3 C/F: +0.3 IR ID:HOU-343 Corrected Temp: 4.6

Temp: 3.8 C/F: +0.3 IR ID:HOU-343 Corrected Temp: 4.1

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/6/22 1514	ARCADIS		12/7/22 10:45	Eurofins
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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

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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. Hauzenberger	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14534-5161 1
Client Contact: Sarah Johnson	Phone: 432-230-2809	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Landfarm	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 DRO [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO_[C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell-21-155-S-3-4-221206	12-6-22	1231	G	Solid			X		X	X	3	
Cell-25-88-S-3-4-221206	12-6-22	1320	G	Solid			X		X	X	3	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

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:

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: 12/6/22 1504	Company: ARCADIS	Received by:	Date/Time: 12/7/22 1045	Company: Eurofins
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: 7/18/2023 11:20:27 AM
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1/17/2023 (Rev. 1)
Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

1.3/1.1

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-20008.1
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 #: 860-38776-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/20/2022			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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 - Tnzma, Z - other (specify)
Other:

E132

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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 18-133-S-3-4-221206 (860-38776-1)	12/6/22	08:21 Central		Solid			X	1	
Cell 18-92-S-3-4-221206 (860-38776-2)	12/6/22	08:36 Central		Solid			X	1	
Cell 18-181-S-3-4-221206 (860-38776-3)	12/6/22	08:50 Central		Solid			X	1	
Cell 18-83-S-3-4-221206 (860-38776-4)	12/6/22	09:10 Central		Solid			X	1	
Cell 17-199-S-3-4-221206 (860-38776-5)	12/6/22	09:39 Central		Solid			X	1	
Cell 17-203-S-3-4-221206 (860-38776-6)	12/6/22	09:53 Central		Solid			X	1	
Cell 17-6-S-3-4-221206 (860-38776-7)	12/6/22	10:13 Central		Solid			X	1	
Cell 17-45-S-3-4-221206 (860-38776-8)	12/6/22	10:29 Central		Solid			X	1	
Cell 21-61-S-3-4-221206 (860-38776-9)	12/6/22	11:13 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]	12/8/22 1900	Eurofins			
2						
3				[signature]	12-9-22 9:30	BTA

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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-20008.2
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 #: 860-38776-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/20/2022			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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:

E132

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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 21-76-S-3-4-221206 (860-38776-10)	12/6/22	11:29 Central		Solid			X	1	
Cell 21-47-S-3-4-221206 (860-38776-11)	12/6/22	12:15 Central		Solid			X	1	
Cell 21-155-S-3-4-221206 (860-38776-12)	12/6/22	12:31 Central		Solid			X	1	
Cell 25-88-S-3-4-221206 (860-38776-13)	12/6/22	13:20 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]	12/8/22 1900	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time 12-9-22 9:30	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: Charlie

Cooler Received on 12-9-22 Opened on 12-9-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 1 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN # IR-13 (CF **-0.2** °C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 1.1 °C
   IR GUN # IR-16 (CF **-0.1**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN # IR-17 (CF **-0.3**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC286797
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____
_____
_____
_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38776-1

Login Number: 38776 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	4.6, 4.1
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	

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 1/19/2023 12:44:18 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38786-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/19/2023 12:44:18 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: 860-38786-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.
N2	RPD of the MS and MSD exceeds the control limits
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: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38786-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 12/13/2022. The report (revision 1) is being revised due to: reanalysia at a lower dilution.

Receipt
The samples were received on 12/7/2022 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1º C and 4.6º C.

Metals
Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-81329 and analytical batch 860-81526 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-81227 and analytical batch 860-81535 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry
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: 860-38786-1

Client Sample ID: Cell 18-133-S-3-4-221206 Lab Sample ID: 860-38786-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.13	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	307		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.77	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.16	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1430		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.893	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	14.8		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.461	J	1.72	0.267	mg/Kg	10		6020B	Total/NA
Uranium	0.356	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.50		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 18-92-S-3-4-221206 Lab Sample ID: 860-38786-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.54	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	54.8		3.33	1.14	mg/Kg	10		6020B	Total/NA
Beryllium	0.234	J	1.67	0.167	mg/Kg	10		6020B	Total/NA
Chromium	5.29		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	2.87	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	4630		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	2.88		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	67.3		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	1.21	J	1.67	0.258	mg/Kg	10		6020B	Total/NA
Uranium	0.193	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	14.9		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 18-181-S-3-4-221206 Lab Sample ID: 860-38786-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.39		3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	285		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.97	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.58	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1720		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.14	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	15.2		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.472	J	1.67	0.258	mg/Kg	10		6020B	Total/NA
Uranium	0.339	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	10.2		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 18-83-S-3-4-221206 Lab Sample ID: 860-38786-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.52	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	55.6		3.45	1.18	mg/Kg	10		6020B	Total/NA
Beryllium	0.334	J	1.72	0.172	mg/Kg	10		6020B	Total/NA
Chromium	7.00		3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	4.22		3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	6740		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	4.35		1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	100		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	1.36	J	1.72	0.267	mg/Kg	10		6020B	Total/NA

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: 860-38786-1

Client Sample ID: Cell 18-83-S-3-4-221206 (Continued) — Lab Sample ID: 860-38786-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.194	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	19.4		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 17-199-S-3-4-221206 — Lab Sample ID: 860-38786-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.19	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	218		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.73	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.09	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1780		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.39	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	19.1		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.389	J	1.75	0.272	mg/Kg	10		6020B	Total/NA
Uranium	0.293	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	7.80		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 17-203-S-3-4-221206 — Lab Sample ID: 860-38786-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.45	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	227		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.14	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	0.920	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1110		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.859	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	9.55		1.72	0.164	mg/Kg	10		6020B	Total/NA
Uranium	0.247	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	4.38		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 17-6-S-3-4-221206 — Lab Sample ID: 860-38786-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.15	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	78.6		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	2.45	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.25	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	2100		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.26	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	21.1		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.607	J	1.67	0.258	mg/Kg	10		6020B	Total/NA
Uranium	0.228	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	7.91		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 17-45-S-3-4-221206 — Lab Sample ID: 860-38786-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.82	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	208		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.89	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	0.945	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1740		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.17	J	1.75	0.114	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 17-45-S-3-4-221206 (Continued) — Lab Sample ID: 860-38786-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	18.2		1.75	0.167	mg/Kg	10		6020B	Total/NA
Uranium	0.351	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	5.59		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 21-61-S-3-4-221206 — Lab Sample ID: 860-38786-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.99	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	260		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.55	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.01	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1220		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.02	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	15.3		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.383	J	1.72	0.267	mg/Kg	10		6020B	Total/NA
Uranium	0.391	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	4.53		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 21-76-S-3-4-221206 — Lab Sample ID: 860-38786-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.21		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	265		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	2.31	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	2.43	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1600		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.922	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	15.9		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.426	J	1.72	0.267	mg/Kg	10		6020B	Total/NA
Uranium	0.475	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	7.26		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 21-47-S-3-4-221206 — Lab Sample ID: 860-38786-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.14	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	216		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.63	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.26	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1520		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.984	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	14.5		1.75	0.167	mg/Kg	10		6020B	Total/NA
Uranium	0.335	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	4.91		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 21-155-S-3-4-221206 — Lab Sample ID: 860-38786-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.24	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	314		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	1.82	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.20	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	1620		16.9	1.08	mg/Kg	10		6020B	Total/NA

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: 860-38786-1

Client Sample ID: Cell 21-155-S-3-4-221206 (Continued) Lab Sample ID: 860-38786-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.25	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	15.6		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.318	J	1.69	0.263	mg/Kg	10		6020B	Total/NA
Uranium	0.339	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	7.84		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 25-88-S-3-4-221206 Lab Sample ID: 860-38786-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.55	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	96.1		3.33	1.14	mg/Kg	10		6020B	Total/NA
Beryllium	0.177	J	1.67	0.167	mg/Kg	10		6020B	Total/NA
Cadmium	0.0875	J	0.833	0.0750	mg/Kg	5		6020B	Total/NA
Chromium	3.36		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.41	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	2780		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.77		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	25.1		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.841	J	1.67	0.258	mg/Kg	10		6020B	Total/NA
Uranium	0.227	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	8.78		3.33	0.975	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 18-133-S-3-4-221206

Lab Sample ID: 860-38786-1
Matrix: Solid
Date Collected: 12/06/22 08:21
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.84	U	3.45	1.84	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Arsenic	**3.13**	**J**	3.45	0.172	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Barium	**307**		3.45	1.18	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/11/22 19:19	01/16/23 20:26	5
Chromium	**1.77**	**J**	3.45	0.466	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Copper	**1.16**	**J**	3.45	0.345	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Iron	**1430**		17.2	1.10	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Lead	**0.893**	**J**	1.72	0.112	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Manganese	**14.8**		1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Selenium	**0.461**	**J**	1.72	0.267	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Silver	0.138	U	1.72	0.138	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Uranium	**0.356**	**J**	0.862	0.0862	mg/Kg		12/11/22 19:19	12/12/22 14:39	10
Zinc	**5.50**		3.45	1.01	mg/Kg		12/11/22 19:19	12/12/22 14:39	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/09/22 15:40	12/12/22 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.3**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**87.7**				%			12/10/22 14:58	1

Client Sample ID: Cell 18-92-S-3-4-221206

Lab Sample ID: 860-38786-2
Matrix: Solid
Date Collected: 12/06/22 08:36
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.78	U	3.33	1.78	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Arsenic	**1.54**	**J**	3.33	0.167	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Barium	**54.8**		3.33	1.14	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Beryllium	**0.234**	**J**	1.67	0.167	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/11/22 19:19	01/16/23 20:28	5
Chromium	**5.29**		3.33	0.450	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Copper	**2.87**	**J**	3.33	0.333	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Iron	**4630**		16.7	1.07	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Lead	**2.88**		1.67	0.108	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Manganese	**67.3**		1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Selenium	**1.21**	**J**	1.67	0.258	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Silver	0.133	U	1.67	0.133	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Uranium	**0.193**	**J**	0.833	0.0833	mg/Kg		12/11/22 19:19	12/12/22 14:58	10
Zinc	**14.9**		3.33	0.975	mg/Kg		12/11/22 19:19	12/12/22 14:58	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/09/22 15:40	12/12/22 16:23	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 18-92-S-3-4-221206

Lab Sample ID: 860-38786-2
Matrix: Solid
Date Collected: 12/06/22 08:36
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	95.7				%			12/10/22 14:58	1

Client Sample ID: Cell 18-181-S-3-4-221206

Lab Sample ID: 860-38786-3
Matrix: Solid
Date Collected: 12/06/22 08:50
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.78	U	3.33	1.78	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Arsenic	3.39		3.33	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Barium	285		3.33	1.14	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/11/22 19:19	01/16/23 21:26	5
Chromium	1.97	J	3.33	0.450	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Copper	1.58	J	3.33	0.333	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Iron	1720		16.7	1.07	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Lead	1.14	J	1.67	0.108	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Manganese	15.2		1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Selenium	0.472	J	1.67	0.258	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Silver	0.133	U	1.67	0.133	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Uranium	0.339	J	0.833	0.0833	mg/Kg		12/11/22 19:19	12/12/22 15:01	10
Zinc	10.2		3.33	0.975	mg/Kg		12/11/22 19:19	12/12/22 15:01	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/09/22 15:40	12/12/22 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	90.1				%			12/10/22 14:58	1

Client Sample ID: Cell 18-83-S-3-4-221206

Lab Sample ID: 860-38786-4
Matrix: Solid
Date Collected: 12/06/22 09:10
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.84	U	3.45	1.84	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Arsenic	2.52	J	3.45	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Barium	55.6		3.45	1.18	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Beryllium	0.334	J	1.72	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/11/22 19:19	01/16/23 21:29	5
Chromium	7.00		3.45	0.466	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Copper	4.22		3.45	0.345	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Iron	6740		17.2	1.10	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Lead	4.35		1.72	0.112	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Manganese	100		1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Selenium	1.36	J	1.72	0.267	mg/Kg		12/11/22 19:19	12/12/22 15:04	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-83-S-3-4-221206 Lab Sample ID: 860-38786-4

Date Collected: 12/06/22 09:10 **Matrix: Solid**
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.138	U	1.72	0.138	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Uranium	**0.194**	**J**	0.862	0.0862	mg/Kg		12/11/22 19:19	12/12/22 15:04	10
Zinc	**19.4**		3.45	1.01	mg/Kg		12/11/22 19:19	12/12/22 15:04	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/09/22 15:40	12/12/22 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.3**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**94.7**				%			12/10/22 14:58	1

Client Sample ID: Cell 17-199-S-3-4-221206 Lab Sample ID: 860-38786-5

Date Collected: 12/06/22 09:39 **Matrix: Solid**
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.87	U	3.51	1.87	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Arsenic	**2.19**	**J**	3.51	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Barium	**218**		3.51	1.20	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/11/22 19:19	01/16/23 21:31	5
Chromium	**1.73**	**J**	3.51	0.474	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Copper	**1.09**	**J**	3.51	0.351	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Iron	**1780**		17.5	1.12	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Lead	**1.39**	**J**	1.75	0.114	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Manganese	**19.1**		1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Selenium	**0.389**	**J**	1.75	0.272	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Silver	0.140	U	1.75	0.140	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Uranium	**0.293**	**J**	0.877	0.0877	mg/Kg		12/11/22 19:19	12/12/22 15:06	10
Zinc	**7.80**		3.51	1.03	mg/Kg		12/11/22 19:19	12/12/22 15:06	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		12/09/22 15:40	12/12/22 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**94.9**				%			12/10/22 14:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 17-203-S-3-4-221206

Lab Sample ID: 860-38786-6
Matrix: Solid
Date Collected: 12/06/22 09:53
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.84	U	3.45	1.84	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Arsenic	**2.45**	**J**	3.45	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Barium	**227**		3.45	1.18	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/11/22 19:19	01/16/23 21:34	5
Chromium	**1.14**	**J**	3.45	0.466	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Copper	**0.920**	**J**	3.45	0.345	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Iron	**1110**		17.2	1.10	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Lead	**0.859**	**J**	1.72	0.112	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Manganese	**9.55**		1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Selenium	0.267	U	1.72	0.267	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Silver	0.138	U	1.72	0.138	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Uranium	**0.247**	**J**	0.862	0.0862	mg/Kg		12/11/22 19:19	12/12/22 15:09	10
Zinc	**4.38**		3.45	1.01	mg/Kg		12/11/22 19:19	12/12/22 15:09	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00799	U	0.0179	0.00799	mg/Kg		12/09/22 15:40	12/12/22 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.8**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**95.2**				%			12/10/22 14:58	1

Client Sample ID: Cell 17-6-S-3-4-221206

Lab Sample ID: 860-38786-7
Matrix: Solid
Date Collected: 12/06/22 10:13
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.78	U	3.33	1.78	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Arsenic	**2.15**	**J**	3.33	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Barium	**78.6**		3.33	1.14	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/11/22 19:19	01/16/23 21:41	5
Chromium	**2.45**	**J**	3.33	0.450	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Copper	**1.25**	**J**	3.33	0.333	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Iron	**2100**		16.7	1.07	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Lead	**1.26**	**J**	1.67	0.108	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Manganese	**21.1**		1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Selenium	**0.607**	**J**	1.67	0.258	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Silver	0.133	U	1.67	0.133	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Uranium	**0.228**	**J**	0.833	0.0833	mg/Kg		12/11/22 19:19	12/12/22 15:12	10
Zinc	**7.91**		3.33	0.975	mg/Kg		12/11/22 19:19	12/12/22 15:12	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/09/22 15:40	12/12/22 16:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 17-6-S-3-4-221206

Lab Sample ID: 860-38786-7
Matrix: Solid
Date Collected: 12/06/22 10:13
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	92.1				%			12/10/22 14:58	1

Client Sample ID: Cell 17-45-S-3-4-221206

Lab Sample ID: 860-38786-8
Matrix: Solid
Date Collected: 12/06/22 10:29
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.87	U	3.51	1.87	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Arsenic	2.82	J	3.51	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Barium	208		3.51	1.20	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/11/22 19:19	01/16/23 21:43	5
Chromium	1.89	J	3.51	0.474	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Copper	0.945	J	3.51	0.351	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Iron	1740		17.5	1.12	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Lead	1.17	J	1.75	0.114	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Manganese	18.2		1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Selenium	0.272	U	1.75	0.272	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Silver	0.140	U	1.75	0.140	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Uranium	0.351	J	0.877	0.0877	mg/Kg		12/11/22 19:19	12/12/22 15:15	10
Zinc	5.59		3.51	1.03	mg/Kg		12/11/22 19:19	12/12/22 15:15	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00772	U	0.0172	0.00772	mg/Kg		12/09/22 15:44	12/12/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.5				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	92.5				%			12/10/22 14:58	1

Client Sample ID: Cell 21-61-S-3-4-221206

Lab Sample ID: 860-38786-9
Matrix: Solid
Date Collected: 12/06/22 11:13
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.84	U	3.45	1.84	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Arsenic	2.99	J	3.45	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Barium	260		3.45	1.18	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/11/22 19:19	01/16/23 21:46	5
Chromium	1.55	J	3.45	0.466	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Copper	1.01	J	3.45	0.345	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Iron	1220		17.2	1.10	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Lead	1.02	J	1.72	0.112	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Manganese	15.3		1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Selenium	0.383	J	1.72	0.267	mg/Kg		12/11/22 19:19	12/12/22 15:17	10

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-61-S-3-4-221206 Lab Sample ID: 860-38786-9

Date Collected: 12/06/22 11:13 **Matrix: Solid**
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.138	U	1.72	0.138	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Uranium	**0.391**	**J**	0.862	0.0862	mg/Kg		12/11/22 19:19	12/12/22 15:17	10
Zinc	**4.53**		3.45	1.01	mg/Kg		12/11/22 19:19	12/12/22 15:17	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		12/09/22 15:44	12/12/22 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.6**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**89.4**				%			12/10/22 14:58	1

Client Sample ID: Cell 21-76-S-3-4-221206 Lab Sample ID: 860-38786-10

Date Collected: 12/06/22 11:29 **Matrix: Solid**
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.84	U	3.45	1.84	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Arsenic	**4.21**		3.45	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Barium	**265**		3.45	1.18	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/11/22 19:19	01/16/23 21:48	5
Chromium	**2.31**	**J**	3.45	0.466	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Copper	**2.43**	**J**	3.45	0.345	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Iron	**1600**		17.2	1.10	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Lead	**0.922**	**J**	1.72	0.112	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Manganese	**15.9**		1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Selenium	**0.426**	**J**	1.72	0.267	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Silver	0.138	U	1.72	0.138	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Uranium	**0.475**	**J**	0.862	0.0862	mg/Kg		12/11/22 19:19	12/12/22 15:20	10
Zinc	**7.26**		3.45	1.01	mg/Kg		12/11/22 19:19	12/12/22 15:20	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		12/09/22 15:44	12/12/22 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.7**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**85.3**				%			12/10/22 14:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Client Sample ID: Cell 21-47-S-3-4-221206

Lab Sample ID: 860-38786-11
Matrix: Solid
Date Collected: 12/06/22 12:15
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.87	U	3.51	1.87	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Arsenic	**3.14**	**J**	3.51	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Barium	**216**		3.51	1.20	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/11/22 19:19	01/16/23 21:51	5
Chromium	**1.63**	**J**	3.51	0.474	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Copper	**1.26**	**J**	3.51	0.351	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Iron	**1520**		17.5	1.12	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Lead	**0.984**	**J**	1.75	0.114	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Manganese	**14.5**		1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Selenium	0.272	U	1.75	0.272	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Silver	0.140	U	1.75	0.140	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Uranium	**0.335**	**J**	0.877	0.0877	mg/Kg		12/11/22 19:19	12/12/22 15:23	10
Zinc	**4.91**		3.51	1.03	mg/Kg		12/11/22 19:19	12/12/22 15:23	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		12/09/22 15:44	12/12/22 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**				%			12/10/22 14:58	1
Percent Solids (EPA Moisture)	**91.8**				%			12/10/22 14:58	1

Client Sample ID: Cell 21-155-S-3-4-221206

Lab Sample ID: 860-38786-12
Matrix: Solid
Date Collected: 12/06/22 12:31
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.81	U	3.39	1.81	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Arsenic	**3.24**	**J**	3.39	0.169	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Barium	**314**		3.39	1.16	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/11/22 19:19	01/16/23 21:58	5
Chromium	**1.82**	**J**	3.39	0.458	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Copper	**1.20**	**J**	3.39	0.339	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Iron	**1620**		16.9	1.08	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Lead	**1.25**	**J**	1.69	0.110	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Manganese	**15.6**		1.69	0.161	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Selenium	**0.318**	**J**	1.69	0.263	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Silver	0.136	U	1.69	0.136	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Uranium	**0.339**	**J**	0.847	0.0847	mg/Kg		12/11/22 19:19	12/12/22 15:31	10
Zinc	**7.84**		3.39	0.992	mg/Kg		12/11/22 19:19	12/12/22 15:31	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		12/09/22 15:44	12/12/22 17:25	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-155-S-3-4-221206 Lab Sample ID: 860-38786-12

Date Collected: 12/06/22 12:31 **Matrix: Solid**
Date Received: 12/07/22 10:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.9				%			12/11/22 13:40	1
Percent Solids (EPA Moisture)	91.1				%			12/11/22 13:40	1

Client Sample ID: Cell 25-88-S-3-4-221206 Lab Sample ID: 860-38786-13

Date Collected: 12/06/22 13:20 **Matrix: Solid**
Date Received: 12/07/22 10:45

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.78	U	3.33	1.78	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Arsenic	1.55	J	3.33	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Barium	96.1		3.33	1.14	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Beryllium	0.177	J	1.67	0.167	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Cadmium	0.0875	J	0.833	0.0750	mg/Kg		12/11/22 19:19	01/16/23 22:00	5
Chromium	3.36		3.33	0.450	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Copper	1.41	J	3.33	0.333	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Iron	2780		16.7	1.07	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Lead	1.77		1.67	0.108	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Manganese	25.1		1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Selenium	0.841	J	1.67	0.258	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Silver	0.133	U	1.67	0.133	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Uranium	0.227	J	0.833	0.0833	mg/Kg		12/11/22 19:19	12/12/22 15:34	10
Zinc	8.78		3.33	0.975	mg/Kg		12/11/22 19:19	12/12/22 15:34	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		12/09/22 15:44	12/12/22 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.2				%			12/11/22 13:40	1
Percent Solids (EPA Moisture)	88.8				%			12/11/22 13:40	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-81329/1-A
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.205	U	0.385	0.205	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Arsenic	0.0192	U	0.385	0.0192	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Barium	0.132	U	0.385	0.132	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Beryllium	0.0192	U	0.192	0.0192	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Cadmium	0.0173	U	0.192	0.0173	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Chromium	0.0519	U	0.385	0.0519	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Copper	0.0385	U	0.385	0.0385	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Iron	0.123	U	1.92	0.123	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Lead	0.0125	U	0.192	0.0125	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Manganese	0.0183	U	0.192	0.0183	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Selenium	0.0298	U	0.192	0.0298	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Silver	0.0154	U	0.192	0.0154	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Thallium	0.0183	U	0.192	0.0183	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Uranium	0.00962	U	0.0962	0.00962	mg/Kg		12/11/22 19:19	12/12/22 14:30	1
Zinc	0.113	U	0.385	0.113	mg/Kg		12/11/22 19:19	12/12/22 14:30	1

Lab Sample ID: LCS 860-81329/2-A
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.652		mg/Kg		97	80 - 120
Arsenic	10.0	9.528		mg/Kg		95	80 - 120
Barium	10.0	9.738		mg/Kg		97	80 - 120
Beryllium	10.0	9.305		mg/Kg		93	80 - 120
Cadmium	10.0	9.813		mg/Kg		98	80 - 120
Chromium	10.0	9.509		mg/Kg		95	80 - 120
Copper	10.0	9.506		mg/Kg		95	80 - 120
Iron	50.0	50.08		mg/Kg		100	80 - 120
Lead	10.0	9.609		mg/Kg		96	80 - 120
Manganese	10.0	9.746		mg/Kg		97	80 - 120
Selenium	10.0	9.744		mg/Kg		97	80 - 120
Silver	5.00	4.959		mg/Kg		99	80 - 120
Thallium	10.0	9.730		mg/Kg		97	80 - 120
Uranium	2.50	2.513		mg/Kg		101	80 - 120
Zinc	10.0	10.02		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-81329/3-A
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	9.341		mg/Kg		95	80 - 120	3	20
Arsenic	9.80	9.252		mg/Kg		94	80 - 120	3	20
Barium	9.80	9.391		mg/Kg		96	80 - 120	4	20
Beryllium	9.80	9.114		mg/Kg		93	80 - 120	2	20
Cadmium	9.80	9.253		mg/Kg		94	80 - 120	6	20
Chromium	9.80	8.978		mg/Kg		92	80 - 120	6	20
Copper	9.80	9.034		mg/Kg		92	80 - 120	5	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-81329/3-A
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81329

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			49.0	47.44		mg/Kg		97	80 - 120	5	20
Lead			9.80	9.295		mg/Kg		95	80 - 120	3	20
Manganese			9.80	9.201		mg/Kg		94	80 - 120	6	20
Selenium			9.80	9.318		mg/Kg		95	80 - 120	4	20
Silver			4.90	4.690		mg/Kg		96	80 - 120	6	20
Thallium			9.80	9.254		mg/Kg		94	80 - 120	5	20
Uranium			2.45	2.398		mg/Kg		98	80 - 120	5	20
Zinc			9.80	9.362		mg/Kg		95	80 - 120	7	20

Lab Sample ID: 860-38786-1 MS
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Cell 18-133-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81329

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.84	U	8.33	6.252		mg/Kg		75	75 - 125
Arsenic	3.13	J	8.33	8.702	N1	mg/Kg		67	75 - 125
Barium	307		8.33	226.1	4	mg/Kg		-970	75 - 125
Beryllium	0.172	U	8.33	5.870	N1	mg/Kg		70	75 - 125
Cadmium	0.155	U	8.33	5.849	N1	mg/Kg		70	75 - 125
Chromium	1.77	J	8.33	7.413	N1	mg/Kg		68	75 - 125
Copper	1.16	J	8.33	6.649	N1	mg/Kg		66	75 - 125
Iron	1430		41.7	1289	4	mg/Kg		-334	75 - 125
Lead	0.893	J	8.33	6.537	N1	mg/Kg		68	75 - 125
Manganese	14.8		8.33	18.58	N1	mg/Kg		45	75 - 125
Selenium	0.461	J	8.33	6.086	N1	mg/Kg		67	75 - 125
Silver	0.138	U	4.17	2.043	N1	mg/Kg		49	75 - 125
Thallium	0.164	U	8.33	5.877	N1	mg/Kg		71	75 - 125
Uranium	0.356	J	2.08	1.803	N1	mg/Kg		69	75 - 125
Zinc	5.50		8.33	10.23	N1	mg/Kg		57	75 - 125

Lab Sample ID: 860-38786-1 MSD
Matrix: Solid
Analysis Batch: 81526

Client Sample ID: Cell 18-133-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81329

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.84	U	8.77	7.325		mg/Kg		84	75 - 125	16	20
Arsenic	3.13	J	8.77	10.43		mg/Kg		83	75 - 125	18	20
Barium	307		8.77	332.3	4 N2	mg/Kg		289	75 - 125	38	20
Beryllium	0.172	U	8.77	6.789		mg/Kg		77	75 - 125	15	20
Cadmium	0.155	U	8.77	6.818		mg/Kg		78	75 - 125	15	20
Chromium	1.77	J	8.77	8.469		mg/Kg		76	75 - 125	13	20
Copper	1.16	J	8.77	7.774		mg/Kg		75	75 - 125	16	20
Iron	1430		43.9	1328	4	mg/Kg		-228	75 - 125	3	20
Lead	0.893	J	8.77	7.597		mg/Kg		76	75 - 125	15	20
Manganese	14.8		8.77	21.78		mg/Kg		80	75 - 125	16	20
Selenium	0.461	J	8.77	7.504	N2	mg/Kg		80	75 - 125	21	20
Silver	0.138	U	4.39	2.408	N1	mg/Kg		55	75 - 125	16	20
Thallium	0.164	U	8.77	6.897		mg/Kg		79	75 - 125	16	20
Uranium	0.356	J	2.19	2.155		mg/Kg		82	75 - 125	18	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-38786-1 MSD — **Client Sample ID: Cell 18-133-S-3-4-221206**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81526 — **Prep Batch: 81329**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	5.50		8.77	13.25	N2	mg/Kg		88	75 - 125	26	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-81224/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		12/09/22 15:40	12/12/22 16:12	1

Lab Sample ID: LCS 860-81224/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.192	0.1951		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 860-81224/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.196	0.2078		mg/Kg		106	80 - 120	6	20

Lab Sample ID: 860-38786-1 MS — **Client Sample ID: Cell 18-133-S-3-4-221206**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00829	U	0.224	0.2319		mg/Kg	☼	104	75 - 125

Lab Sample ID: 860-38786-1 MSD — **Client Sample ID: Cell 18-133-S-3-4-221206**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00829	U	0.228	0.2417		mg/Kg	☼	106	75 - 125	4	20

Lab Sample ID: 860-38786-6 MS — **Client Sample ID: Cell 17-203-S-3-4-221206**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81535 — **Prep Batch: 81224**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00799	U	0.181	0.1871		mg/Kg	☼	103	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-38786-6 MSD
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Cell 17-203-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00799	U	0.188	0.1975		mg/Kg	☼	105	75 - 125	5	20

Lab Sample ID: MB 860-81227/10-A
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00895	U	0.0200	0.00895	mg/Kg		12/09/22 15:40	12/12/22 17:07	1

Lab Sample ID: LCS 860-81227/11-A
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.192	0.1988		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 860-81227/12-A
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81227

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.196	0.1992		mg/Kg		102	80 - 120	0	20

Lab Sample ID: 860-38786-8 MS
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Cell 17-45-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00772	U	0.196	0.1504		mg/Kg	☼	77	75 - 125

Lab Sample ID: 860-38786-8 MSD
Matrix: Solid
Analysis Batch: 81535

Client Sample ID: Cell 17-45-S-3-4-221206
Prep Type: Total/NA
Prep Batch: 81227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00772	U	0.200	0.2099	N2	mg/Kg	☼	105	75 - 125	33	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-81302/1
Matrix: Solid
Analysis Batch: 81302

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.06				%			12/10/22 14:58	1
Percent Solids	100.1				%			12/10/22 14:58	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: MB 860-81321/1
Matrix: Solid
Analysis Batch: 81321

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.007				%			12/11/22 13:40	1
Percent Solids	100.0				%			12/11/22 13:40	1

Lab Sample ID: 860-38786-12 DU
Matrix: Solid
Analysis Batch: 81321

Client Sample ID: Cell 21-155-S-3-4-221206
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.9			8.7		%				3	20
Percent Solids	91.1			91.4		%				0.2	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Metals

Prep Batch: 81224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	7471A	
MB 860-81224/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81224/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81224/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38786-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-1 MSD	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-6 MS	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-6 MSD	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	

Prep Batch: 81227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	7471A	
MB 860-81227/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81227/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81227/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38786-8 MS	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	
860-38786-8 MSD	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	

Prep Batch: 81329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	3051A	
MB 860-81329/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-81329/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-81329/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-38786-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	3051A	
860-38786-1 MSD	Cell 18-133-S-3-4-221206	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Metals

Analysis Batch: 81526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	6020B	81329
MB 860-81329/1-A	Method Blank	Total/NA	Solid	6020B	81329
LCS 860-81329/2-A	Lab Control Sample	Total/NA	Solid	6020B	81329
LCSD 860-81329/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	81329
860-38786-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-1 MSD	Cell 18-133-S-3-4-221206	Total/NA	Solid	6020B	81329

Analysis Batch: 81535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	7471A	81227
MB 860-81224/10-A	Method Blank	Total/NA	Solid	7471A	81224
MB 860-81227/10-A	Method Blank	Total/NA	Solid	7471A	81227
LCS 860-81224/11-A	Lab Control Sample	Total/NA	Solid	7471A	81224
LCS 860-81227/11-A	Lab Control Sample	Total/NA	Solid	7471A	81227
LCSD 860-81224/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81224
LCSD 860-81227/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81227
860-38786-1 MS	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-1 MSD	Cell 18-133-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-6 MS	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-6 MSD	Cell 17-203-S-3-4-221206	Total/NA	Solid	7471A	81224
860-38786-8 MS	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	81227
860-38786-8 MSD	Cell 17-45-S-3-4-221206	Total/NA	Solid	7471A	81227

Analysis Batch: 86057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	6020B	81329

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Metals (Continued)

Analysis Batch: 86057 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	6020B	81329
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	6020B	81329

General Chemistry

Analysis Batch: 81302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-1	Cell 18-133-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-2	Cell 18-92-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-3	Cell 18-181-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-4	Cell 18-83-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-5	Cell 17-199-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-6	Cell 17-203-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-7	Cell 17-6-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-8	Cell 17-45-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-9	Cell 21-61-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-10	Cell 21-76-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-11	Cell 21-47-S-3-4-221206	Total/NA	Solid	Moisture	
MB 860-81302/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 81321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38786-12	Cell 21-155-S-3-4-221206	Total/NA	Solid	Moisture	
860-38786-13	Cell 25-88-S-3-4-221206	Total/NA	Solid	Moisture	
MB 860-81321/1	Method Blank	Total/NA	Solid	Moisture	
860-38786-12 DU	Cell 21-155-S-3-4-221206	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-133-S-3-4-221206
Lab Sample ID: 860-38786-1
Date Collected: 12/06/22 08:21
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:26	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 14:39	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:16	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 18-92-S-3-4-221206
Lab Sample ID: 860-38786-2
Date Collected: 12/06/22 08:36
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 20:28	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 14:58	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:23	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 18-181-S-3-4-221206
Lab Sample ID: 860-38786-3
Date Collected: 12/06/22 08:50
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:26	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:01	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:24	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 18-83-S-3-4-221206
Lab Sample ID: 860-38786-4
Date Collected: 12/06/22 09:10
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:29	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:04	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:28	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-83-S-3-4-221206
Lab Sample ID: 860-38786-4
Date Collected: 12/06/22 09:10
Matrix: Solid
Date Received: 12/07/22 10:45

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			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 17-199-S-3-4-221206
Lab Sample ID: 860-38786-5
Date Collected: 12/06/22 09:39
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:31	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:06	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:29	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 17-203-S-3-4-221206
Lab Sample ID: 860-38786-6
Date Collected: 12/06/22 09:53
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:34	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:09	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:38	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 17-6-S-3-4-221206
Lab Sample ID: 860-38786-7
Date Collected: 12/06/22 10:13
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:41	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:12	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81224	12/09/22 15:40	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 16:32	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-45-S-3-4-221206
Lab Sample ID: 860-38786-8
Date Collected: 12/06/22 10:29
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:43	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:15	DP	EET HOU
Total/NA	Prep	7471A			.58 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:11	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 21-61-S-3-4-221206
Lab Sample ID: 860-38786-9
Date Collected: 12/06/22 11:13
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:46	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:17	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:21	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 21-76-S-3-4-221206
Lab Sample ID: 860-38786-10
Date Collected: 12/06/22 11:29
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:48	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:20	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:22	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 21-47-S-3-4-221206
Lab Sample ID: 860-38786-11
Date Collected: 12/06/22 12:15
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:51	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:23	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:23	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38786-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-47-S-3-4-221206
Lab Sample ID: 860-38786-11
Date Collected: 12/06/22 12:15
Matrix: Solid
Date Received: 12/07/22 10:45

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			81302	12/10/22 14:58	ALL	EET HOU

Client Sample ID: Cell 21-155-S-3-4-221206
Lab Sample ID: 860-38786-12
Date Collected: 12/06/22 12:31
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 21:58	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:31	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:25	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81321	12/11/22 13:40	ALL	EET HOU

Client Sample ID: Cell 25-88-S-3-4-221206
Lab Sample ID: 860-38786-13
Date Collected: 12/06/22 13:20
Matrix: Solid
Date Received: 12/07/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:00	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	81329	12/11/22 19:19	PB	EET HOU
Total/NA	Analysis	6020B		10			81526	12/12/22 15:34	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81227	12/09/22 15:44	MCA	EET HOU
Total/NA	Analysis	7471A		1			81535	12/12/22 17:26	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81321	12/11/22 13:40	ALL	EET HOU

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38786-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38786-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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

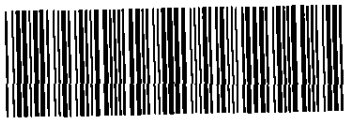
Job ID: 860-38786-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38786-1	Cell 18-133-S-3-4-221206	Solid	12/06/22 08:21	12/07/22 10:45
860-38786-2	Cell 18-92-S-3-4-221206	Solid	12/06/22 08:36	12/07/22 10:45
860-38786-3	Cell 18-181-S-3-4-221206	Solid	12/06/22 08:50	12/07/22 10:45
860-38786-4	Cell 18-83-S-3-4-221206	Solid	12/06/22 09:10	12/07/22 10:45
860-38786-5	Cell 17-199-S-3-4-221206	Solid	12/06/22 09:39	12/07/22 10:45
860-38786-6	Cell 17-203-S-3-4-221206	Solid	12/06/22 09:53	12/07/22 10:45
860-38786-7	Cell 17-6-S-3-4-221206	Solid	12/06/22 10:13	12/07/22 10:45
860-38786-8	Cell 17-45-S-3-4-221206	Solid	12/06/22 10:29	12/07/22 10:45
860-38786-9	Cell 21-61-S-3-4-221206	Solid	12/06/22 11:13	12/07/22 10:45
860-38786-10	Cell 21-76-S-3-4-221206	Solid	12/06/22 11:29	12/07/22 10:45
860-38786-11	Cell 21-47-S-3-4-221206	Solid	12/06/22 12:15	12/07/22 10:45
860-38786-12	Cell 21-155-S-3-4-221206	Solid	12/06/22 12:31	12/07/22 10:45
860-38786-13	Cell 25-88-S-3-4-221206	Solid	12/06/22 13:20	12/07/22 10:45

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

Chain of Custody Record



860-38786 Chain of Custody

Environment Testing

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar Sachin G		53.1
Client Contact: Sarah Johnson	Phone: 432-230-7309	E-Mail: Sachin Kudchadkar@et.eurofinsus.com		Page: Page 1 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested		
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: Jal Land Farm	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

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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 18-133-5-3-4-221206	12/06/22	0821	G	Solid			X	X	X	1	
Cell 18-96-5-3-4-221206	12/06/22	0836	G	Solid			X	X	X	1	
Cell 18-181-5-3-4-221206	12/06/22	0850	G	Solid			X	X	X	1	
Cell 18-83-5-3-4-221206	12/06/22	0910	G	Solid			X	X	X	1	
Cell 17-199-5-3-4-221206	12/06/22	0939	G	Solid			X	X	X	1	
Cell 17-203-5-3-4-221206	12/06/22	0953	G	Solid			X	X	X	1	
Cell 17-6-5-3-[redacted]-4-221206	12/06/22	1013	G	Solid			X	X	X	1	
Cell 17-45-5-3-4-221206	12/06/22	1029	G	Solid			X	X	X	1	
Cell 21-61-5-3-4-221206	12/06/22	1113	G	Solid			X	X	X	1	
Cell 21-26-5-3-4-221206	12/06/22	1129	G	Solid			X	X	X	1	
Cell 21-47-8-3-4-221206	12/06/22	1205	G	Solid			X	X	X	1	

Temp. 4.3 IR ID HOU-343
C/F +0.3
Corrected Temp. 4.6

Temp: 3.8 IR ID HOU-343
C/F +0.3
Corrected Temp 4.1

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I II, III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	12/06/22 / 1514	ARCADIS		12/7/22 1045	Eurofins
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: 7/18/2023 11:20:27 AM
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1/19/2023 (Rev. 1)
Released to Imaging: 1/29/2025 3:31:29 PM

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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:	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-230-2309	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 21-155-5-3-4-22/206	12/6/22	1231	G	Solid			X	X	X	1	
Cell 25-88-5-3-4-22/206	12/6/22	1320	G	Solid			X	X	X	1	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

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:

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
	12/06/22 1516	ARCADIS	Sarah Johnson	12/7/22 10:45	Eurofins
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: 7/18/2023 11:20:27 AM
Released to Imaging: 1/29/2025 3:31:29 PM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38786-1

Login Number: 38786 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	4.6, 4.1
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	

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 12/29/2022 3:42:59 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38889-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
12/29/2022 3:42:59 PM

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: 860-38889-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
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
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: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38889-1

Comments
No additional comments.

Receipt
The samples were received on 12/8/2022 10:19 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 5.3º C.

GC/MS VOA
Method 8260C: Sample is a bulk jar.

Cell 25-179-S-3-4-221207 (860-38889-2), Cell 25-187-S-3-4-221207 (860-38889-3), Cell 26-79-S-3-4-221207 (860-38889-4), C
26-115-S-3-4-221207 (860-38889-5), Cell 26-198-S-3-4-221207 (860-38889-6), Cell 26-129-S-3-4-221207 (860-38889-7) and
(860-38889-C-2-A 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
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.

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38889-1

No Detections.

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2

No Detections.

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3

No Detections.

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38889-4

No Detections.

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38889-5

No Detections.

Client Sample ID: Cell 26-198-S-3-4-221207 Lab Sample ID: 860-38889-6

No Detections.

Client Sample ID: Cell 26-129-S-3-4-221207 Lab Sample ID: 860-38889-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38889-1
Date Collected: 12/07/22 08:29 **Matrix: Solid**
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000726	U	0.000990	0.000726	mg/Kg		12/12/22 16:30	12/13/22 13:23	1
Toluene	0.00189	U	0.00495	0.00189	mg/Kg		12/12/22 16:30	12/13/22 13:23	1
Ethylbenzene	0.000658	U	0.000990	0.000658	mg/Kg		12/12/22 16:30	12/13/22 13:23	1
m,p-Xylenes	0.000792	U	0.00198	0.000792	mg/Kg		12/12/22 16:30	12/13/22 13:23	1
o-Xylene	0.000891	U	0.000990	0.000891	mg/Kg		12/12/22 16:30	12/13/22 13:23	1
Xylenes, Total	0.000891	U	0.00198	0.000891	mg/Kg		12/12/22 16:30	12/13/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/12/22 16:30*	*12/13/22 13:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*12/12/22 16:30*	*12/13/22 13:23*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*12/12/22 16:30*	*12/13/22 13:23*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*12/12/22 16:30*	*12/13/22 13:23*	*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	2.48	U	9.90	2.48	mg/Kg		12/12/22 16:17	12/13/22 16:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*12/12/22 16:17*	*12/13/22 16:03*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**92.3**				%			12/11/22 17:14	1

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38889-1
Date Collected: 12/07/22 08:29 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 92.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	39.1	U	56.6	39.1	mg/Kg	☼	12/13/22 08:28	12/13/22 15:39	1
Oil Range Organics (C28-C36)	39.1	U	56.6	39.1	mg/Kg	☼	12/13/22 08:28	12/13/22 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*39 - 120*	*12/13/22 08:28*	*12/13/22 15:39*	*1*

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2
Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/12/22 16:30	12/13/22 13:27	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/12/22 16:30	12/13/22 13:27	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/12/22 16:30	12/13/22 13:27	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/12/22 16:30	12/13/22 13:27	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/12/22 16:30	12/13/22 13:27	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/12/22 16:30	12/13/22 13:27	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2

Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*12/12/22 16:30*	*12/13/22 13:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/12/22 16:30*	*12/13/22 13:27*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*12/12/22 16:30*	*12/13/22 13:27*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*12/12/22 16:30*	*12/13/22 13:27*	*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	2.49	U	9.96	2.49	mg/Kg		12/12/22 16:17	12/13/22 04:27	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/12/22 16:17*	*12/13/22 04:27*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.5**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**91.6**				%			12/11/22 17:14	1

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2

Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 91.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	39.2	U	56.7	39.2	mg/Kg	☼	12/13/22 08:28	12/13/22 16:06	1
Oil Range Organics (C28-C36)	39.2	U	56.7	39.2	mg/Kg	☼	12/13/22 08:28	12/13/22 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*83*		*39 - 120*	*12/13/22 08:28*	*12/13/22 16:06*	*1*

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3

Date Collected: 12/07/22 09:05 **Matrix: Solid**
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/12/22 16:30	12/13/22 13:47	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/12/22 16:30	12/13/22 13:47	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/12/22 16:30	12/13/22 13:47	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/12/22 16:30	12/13/22 13:47	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/12/22 16:30	12/13/22 13:47	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/12/22 16:30	12/13/22 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*12/12/22 16:30*	*12/13/22 13:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*12/12/22 16:30*	*12/13/22 13:47*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*12/12/22 16:30*	*12/13/22 13:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/12/22 16:30*	*12/13/22 13:47*	*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	2.49	U	9.96	2.49	mg/Kg		12/12/22 16:17	12/13/22 16:35	50

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3

Date Collected: 12/07/22 09:05 **Matrix: Solid**
Date Received: 12/08/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/12/22 16:17*	*12/13/22 16:35*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**92.3**				%			12/11/22 17:14	1

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3

Date Collected: 12/07/22 09:05 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 92.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	38.3	U	55.3	38.3	mg/Kg	☼	12/13/22 08:28	12/13/22 16:32	1
Oil Range Organics (C28-C36)	38.3	U	55.3	38.3	mg/Kg	☼	12/13/22 08:28	12/13/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*74*		*39 - 120*	*12/13/22 08:28*	*12/13/22 16:32*	*1*

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38889-4

Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/12/22 16:30	12/13/22 14:08	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/12/22 16:30	12/13/22 14:08	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/12/22 16:30	12/13/22 14:08	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/12/22 16:30	12/13/22 14:08	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/12/22 16:30	12/13/22 14:08	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/12/22 16:30	12/13/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*	*12/12/22 16:30*	*12/13/22 14:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*	*12/12/22 16:30*	*12/13/22 14:08*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*12/12/22 16:30*	*12/13/22 14:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/12/22 16:30*	*12/13/22 14:08*	*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	2.50	U	9.98	2.50	mg/Kg		12/12/22 16:17	12/13/22 05:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/12/22 16:17*	*12/13/22 05:29*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.7**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**88.3**				%			12/11/22 17:14	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38889-4

Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 88.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	38.6	U	55.8	38.6	mg/Kg	☼	12/13/22 08:28	12/13/22 16:59	1
Oil Range Organics (C28-C36)	38.6	U	55.8	38.6	mg/Kg	☼	12/13/22 08:28	12/13/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*70*		*39 - 120*	*12/13/22 08:28*	*12/13/22 16:59*	*1*

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38889-5

Date Collected: 12/07/22 10:08 **Matrix: Solid**
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000740	U	0.00101	0.000740	mg/Kg		12/12/22 16:30	12/13/22 14:29	1
Toluene	0.00193	U	0.00505	0.00193	mg/Kg		12/12/22 16:30	12/13/22 14:29	1
Ethylbenzene	0.000672	U	0.00101	0.000672	mg/Kg		12/12/22 16:30	12/13/22 14:29	1
m,p-Xylenes	0.000808	U	0.00202	0.000808	mg/Kg		12/12/22 16:30	12/13/22 14:29	1
o-Xylene	0.000909	U	0.00101	0.000909	mg/Kg		12/12/22 16:30	12/13/22 14:29	1
Xylenes, Total	0.000909	U	0.00202	0.000909	mg/Kg		12/12/22 16:30	12/13/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*12/12/22 16:30*	*12/13/22 14:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*	*12/12/22 16:30*	*12/13/22 14:29*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*12/12/22 16:30*	*12/13/22 14:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*12/12/22 16:30*	*12/13/22 14:29*	*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	2.51	U	10.0	2.51	mg/Kg		12/12/22 16:17	12/13/22 06:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/12/22 16:17*	*12/13/22 06:00*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.4**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**90.6**				%			12/11/22 17:14	1

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38889-5

Date Collected: 12/07/22 10:08 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 90.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	36.9	U	53.4	36.9	mg/Kg	☼	12/13/22 08:28	12/13/22 17:26	1
Oil Range Organics (C28-C36)	36.9	U	53.4	36.9	mg/Kg	☼	12/13/22 08:28	12/13/22 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*73*		*39 - 120*	*12/13/22 08:28*	*12/13/22 17:26*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

Client Sample ID: Cell 26-198-S-3-4-221207

Lab Sample ID: 860-38889-6
Date Collected: 12/07/22 10:25
Matrix: Solid
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000729	U	0.000994	0.000729	mg/Kg		12/12/22 16:30	12/13/22 14:49	1
Toluene	0.00190	U	0.00497	0.00190	mg/Kg		12/12/22 16:30	12/13/22 14:49	1
Ethylbenzene	0.000661	U	0.000994	0.000661	mg/Kg		12/12/22 16:30	12/13/22 14:49	1
m,p-Xylenes	0.000795	U	0.00199	0.000795	mg/Kg		12/12/22 16:30	12/13/22 14:49	1
o-Xylene	0.000895	U	0.000994	0.000895	mg/Kg		12/12/22 16:30	12/13/22 14:49	1
Xylenes, Total	0.000895	U	0.00199	0.000895	mg/Kg		12/12/22 16:30	12/13/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*	*12/12/22 16:30*	*12/13/22 14:49*	*1*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*12/12/22 16:30*	*12/13/22 14:49*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*12/12/22 16:30*	*12/13/22 14:49*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*12/12/22 16:30*	*12/13/22 14:49*	*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	2.50	U	10.0	2.50	mg/Kg		12/12/22 16:17	12/13/22 06:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/12/22 16:17*	*12/13/22 06:31*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.5**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**89.5**				%			12/11/22 17:14	1

Client Sample ID: Cell 26-198-S-3-4-221207

Lab Sample ID: 860-38889-6
Date Collected: 12/07/22 10:25
Matrix: Solid
Date Received: 12/08/22 10:19
Percent Solids: 89.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	39.1	U	56.6	39.1	mg/Kg	☼	12/13/22 08:28	12/13/22 17:53	1
Oil Range Organics (C28-C36)	39.1	U	56.6	39.1	mg/Kg	☼	12/13/22 08:28	12/13/22 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*39 - 120*	*12/13/22 08:28*	*12/13/22 17:53*	*1*

Client Sample ID: Cell 26-129-S-3-4-221207

Lab Sample ID: 860-38889-7
Date Collected: 12/07/22 10:40
Matrix: Solid
Date Received: 12/08/22 10:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000737	U	0.00101	0.000737	mg/Kg		12/12/22 16:30	12/13/22 15:10	1
Toluene	0.00192	U	0.00503	0.00192	mg/Kg		12/12/22 16:30	12/13/22 15:10	1
Ethylbenzene	0.000669	U	0.00101	0.000669	mg/Kg		12/12/22 16:30	12/13/22 15:10	1
m,p-Xylenes	0.000805	U	0.00201	0.000805	mg/Kg		12/12/22 16:30	12/13/22 15:10	1
o-Xylene	0.000905	U	0.00101	0.000905	mg/Kg		12/12/22 16:30	12/13/22 15:10	1
Xylenes, Total	0.000905	U	0.00201	0.000905	mg/Kg		12/12/22 16:30	12/13/22 15:10	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-129-S-3-4-221207 Lab Sample ID: 860-38889-7

Date Collected: 12/07/22 10:40 **Matrix: Solid**
Date Received: 12/08/22 10:19

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*56 - 150*	*12/12/22 16:30*	*12/13/22 15:10*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*12/12/22 16:30*	*12/13/22 15:10*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 142*	*12/12/22 16:30*	*12/13/22 15:10*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*12/12/22 16:30*	*12/13/22 15:10*	*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	2.52	U	10.1	2.52	mg/Kg		12/12/22 16:17	12/13/22 07:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/22 16:17*	*12/13/22 07:02*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.1**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**95.9**				%			12/11/22 17:14	1

Client Sample ID: Cell 26-129-S-3-4-221207 Lab Sample ID: 860-38889-7

Date Collected: 12/07/22 10:40 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 95.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	36.1	U	52.2	36.1	mg/Kg	☼	12/13/22 08:28	12/13/22 18:20	1
Oil Range Organics (C28-C36)	36.1	U	52.2	36.1	mg/Kg	☼	12/13/22 08:28	12/13/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*64*		*39 - 120*	*12/13/22 08:28*	*12/13/22 18:20*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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)
860-38889-1	Cell 25-114-S-3-4-221207	101	93	104	94
860-38889-1 MS	Cell 25-114-S-3-4-221207	104	96	101	97
860-38889-2	Cell 25-179-S-3-4-221207	99	100	96	98
860-38889-2 MS	Cell 25-179-S-3-4-221207	103	101	105	103
860-38889-3	Cell 25-187-S-3-4-221207	102	101	100	99
860-38889-4	Cell 26-79-S-3-4-221207	101	104	98	101
860-38889-5	Cell 26-115-S-3-4-221207	104	100	97	99
860-38889-6	Cell 26-198-S-3-4-221207	106	106	96	100
860-38889-7	Cell 26-129-S-3-4-221207	113	102	105	101
LCS 860-81596/3	Lab Control Sample	105	98	109	96
LCS 860-81600/12	Lab Control Sample	100	99	102	102
LCSD 860-81596/4	Lab Control Sample Dup	102	98	109	99
LCSD 860-81600/13	Lab Control Sample Dup	105	97	100	100
MB 860-81596/8	Method Blank	106	94	94	97
MB 860-81600/17	Method Blank	102	97	97	99

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)
860-38889-1	Cell 25-114-S-3-4-221207	91
860-38889-2	Cell 25-179-S-3-4-221207	99
860-38889-3	Cell 25-187-S-3-4-221207	88
860-38889-3 MS	Cell 25-187-S-3-4-221207	92
860-38889-4	Cell 26-79-S-3-4-221207	97
860-38889-5	Cell 26-115-S-3-4-221207	97
860-38889-6	Cell 26-198-S-3-4-221207	97
860-38889-7	Cell 26-129-S-3-4-221207	92
860-38889-7 MS	Cell 26-129-S-3-4-221207	96
LCS 860-81517/4	Lab Control Sample	103
LCS 860-81639/4	Lab Control Sample	96
LCSD 860-81517/5	Lab Control Sample Dup	125
LCSD 860-81639/5	Lab Control Sample Dup	97
MB 860-81517/7	Method Blank	98
MB 860-81639/7	Method Blank	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
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	OTPH1 (39-120)								
860-38889-1	Cell 25-114-S-3-4-221207	74								
860-38889-2	Cell 25-179-S-3-4-221207	83								
860-38889-3	Cell 25-187-S-3-4-221207	74								
860-38889-4	Cell 26-79-S-3-4-221207	70								
860-38889-5	Cell 26-115-S-3-4-221207	73								
860-38889-6	Cell 26-198-S-3-4-221207	76								
860-38889-7	Cell 26-129-S-3-4-221207	64								
LCS 240-555628/2-A	Lab Control Sample	79								
MB 240-555628/1-A	Method Blank	76								

Surrogate Legend

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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

Lab Sample ID: 860-38889-1 MS
Matrix: Solid
Analysis Batch: 81596

Client Sample ID: Cell 25-114-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000726	U	0.0495	0.05034		mg/Kg		102	71 - 119
Toluene	0.00189	U	0.0495	0.04944		mg/Kg		100	74 - 122
Ethylbenzene	0.000658	U	0.0495	0.05155		mg/Kg		104	80 - 123
m,p-Xylenes	0.000792	U	0.0495	0.05390		mg/Kg		109	78 - 127
o-Xylene	0.000891	U	0.0495	0.05039		mg/Kg		102	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 860-38889-2 MS
Matrix: Solid
Analysis Batch: 81600

Client Sample ID: Cell 25-179-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000740	U	0.0498	0.04006		mg/Kg		80	71 - 119
Toluene	0.00193	U	0.0498	0.04122		mg/Kg		83	74 - 122
Ethylbenzene	0.000672	U	0.0498	0.04182		mg/Kg		84	80 - 123
m,p-Xylenes	0.000808	U	0.0498	0.04114		mg/Kg		83	78 - 127
o-Xylene	0.000909	U	0.0498	0.04166		mg/Kg		84	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 860-81596/8
Matrix: Solid
Analysis Batch: 81596

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			12/13/22 12:36	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/13/22 12:36	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/13/22 12:36	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/13/22 12:36	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/13/22 12:36	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/13/22 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*56 - 150*		*12/13/22 12:36*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*		*12/13/22 12:36*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*		*12/13/22 12:36*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/13/22 12:36*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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

Lab Sample ID: LCS 860-81596/3
Matrix: Solid
Analysis Batch: 81596

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	0.05430		mg/Kg		109	66 - 142		
Toluene			0.0500	0.05327		mg/Kg		107	74 - 130		
Ethylbenzene			0.0500	0.05606		mg/Kg		112	80 - 130		
m,p-Xylenes			0.0500	0.05841		mg/Kg		117	78 - 130		
o-Xylene			0.0500	0.05616		mg/Kg		112	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*109*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 860-81596/4
Matrix: Solid
Analysis Batch: 81596

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	0.05397		mg/Kg		108	66 - 142	1	25
Toluene			0.0500	0.05632		mg/Kg		113	74 - 130	6	25
Ethylbenzene			0.0500	0.05818		mg/Kg		116	80 - 130	4	25
m,p-Xylenes			0.0500	0.06158		mg/Kg		123	78 - 130	5	25
o-Xylene			0.0500	0.05794		mg/Kg		116	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*109*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 860-81600/17
Matrix: Solid
Analysis Batch: 81600

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			12/13/22 12:46	1
Toluene	0.00191	U	0.00500	0.00191	mg/Kg			12/13/22 12:46	1
Ethylbenzene	0.000665	U	0.00100	0.000665	mg/Kg			12/13/22 12:46	1
m,p-Xylenes	0.000800	U	0.00200	0.000800	mg/Kg			12/13/22 12:46	1
o-Xylene	0.000900	U	0.00100	0.000900	mg/Kg			12/13/22 12:46	1
Xylenes, Total	0.000900	U	0.00200	0.000900	mg/Kg			12/13/22 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*		*12/13/22 12:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*		*12/13/22 12:46*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*12/13/22 12:46*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/13/22 12:46*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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

Lab Sample ID: LCS 860-81600/12
Matrix: Solid
Analysis Batch: 81600

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	0.04677		mg/Kg		94	66 - 142		
Toluene			0.0500	0.04950		mg/Kg		99	74 - 130		
Ethylbenzene			0.0500	0.05076		mg/Kg		102	80 - 130		
m,p-Xylenes			0.0500	0.05071		mg/Kg		101	78 - 130		
o-Xylene			0.0500	0.05031		mg/Kg		101	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 860-81600/13
Matrix: Solid
Analysis Batch: 81600

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	0.04672		mg/Kg		93	66 - 142	0	25
Toluene			0.0500	0.04842		mg/Kg		97	74 - 130	2	25
Ethylbenzene			0.0500	0.04946		mg/Kg		99	80 - 130	3	25
m,p-Xylenes			0.0500	0.05059		mg/Kg		101	78 - 130	0	25
o-Xylene			0.0500	0.04989		mg/Kg		100	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

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

Lab Sample ID: 860-38889-3 MS
Matrix: Solid
Analysis Batch: 81639

Client Sample ID: Cell 25-187-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12	6.08	J	49.8	52.24		mg/Kg		93	75 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 860-38889-7 MS
Matrix: Solid
Analysis Batch: 81517

Client Sample ID: Cell 26-129-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C4-C12	9.10	J	50.3	60.51		mg/Kg		102	75 - 135		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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

Lab Sample ID: 860-38889-7 MS
Matrix: Solid
Analysis Batch: 81517

Client Sample ID: Cell 26-129-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81507

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

Lab Sample ID: MB 860-81517/7
Matrix: Solid
Analysis Batch: 81517

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			12/13/22 01:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		12/13/22 01:50	1

Lab Sample ID: LCS 860-81517/4
Matrix: Solid
Analysis Batch: 81517

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	1.203		mg/Kg		120	70 - 130		

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

Lab Sample ID: LCSD 860-81517/5
Matrix: Solid
Analysis Batch: 81517

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	1.085		mg/Kg		108	70 - 130	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130

Lab Sample ID: MB 860-81639/7
Matrix: Solid
Analysis Batch: 81639

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			12/13/22 14:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		12/13/22 14:30	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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

Lab Sample ID: LCS 860-81639/4
Matrix: Solid
Analysis Batch: 81639

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	0.9778		mg/Kg		98	70 - 130		

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

Lab Sample ID: LCSD 860-81639/5
Matrix: Solid
Analysis Batch: 81639

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	1.111		mg/Kg		111	70 - 130	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 240-555628/1-A
Matrix: Solid
Analysis Batch: 555653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		12/13/22 08:28	12/13/22 13:25	1
Oil Range Organics (C28-C36)	34.6	U	50.0	34.6	mg/Kg		12/13/22 08:28	12/13/22 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*39 - 120*	*12/13/22 08:28*	*12/13/22 13:25*	*1*

Lab Sample ID: LCS 240-555628/2-A
Matrix: Solid
Analysis Batch: 555653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555628

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]			250	185.8		mg/Kg		74	49 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*79*		*39 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-81414/1
Matrix: Solid
Analysis Batch: 81414

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.08				%			12/11/22 17:14	1
Percent Solids	99.9				%			12/11/22 17:14	1

Eurofins Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 860-38889-1 DU
Matrix: Solid
Analysis Batch: 81414

Client Sample ID: Cell 25-114-S-3-4-221207
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.7			7.5		%				3	20
Percent Solids	92.3			92.6		%				0.3	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

GC/MS VOA

Prep Batch: 81490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	5030C	

Prep Batch: 81507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1 MS	Cell 25-114-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-2 MS	Cell 25-179-S-3-4-221207	Total/NA	Solid	5030C	

Analysis Batch: 81596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	8260C	81490
MB 860-81596/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-81596/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-81596/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-38889-1 MS	Cell 25-114-S-3-4-221207	Total/NA	Solid	8260C	81507

Analysis Batch: 81600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	8260C	81490
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	8260C	81490
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	8260C	81490
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	8260C	81490
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	8260C	81490
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	8260C	81490
MB 860-81600/17	Method Blank	Total/NA	Solid	8260C	
LCS 860-81600/12	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-81600/13	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-38889-2 MS	Cell 25-179-S-3-4-221207	Total/NA	Solid	8260C	81507

GC VOA

Prep Batch: 81507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-3 MS	Cell 25-187-S-3-4-221207	Total/NA	Solid	5030C	
860-38889-7 MS	Cell 26-129-S-3-4-221207	Total/NA	Solid	5030C	

Analysis Batch: 81517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	8015D	81507

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

GC VOA (Continued)

Analysis Batch: 81517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	8015D	81507
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	8015D	81507
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	8015D	81507
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	8015D	81507
MB 860-81517/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-81517/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81517/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-38889-7 MS	Cell 26-129-S-3-4-221207	Total/NA	Solid	8015D	81507

Analysis Batch: 81639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	8015D	81507
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	8015D	81507
MB 860-81639/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-81639/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-81639/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-38889-3 MS	Cell 25-187-S-3-4-221207	Total/NA	Solid	8015D	81507

GC Semi VOA

Prep Batch: 555628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	3546	
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	3546	
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	3546	
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	3546	
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	3546	
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	3546	
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	3546	
MB 240-555628/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-555628/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 555653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	8015B	555628
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	8015B	555628
MB 240-555628/1-A	Method Blank	Total/NA	Solid	8015B	555628
LCS 240-555628/2-A	Lab Control Sample	Total/NA	Solid	8015B	555628

General Chemistry

Analysis Batch: 81414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	Moisture	
860-38889-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	Moisture	
860-38889-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	Moisture	
860-38889-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

General Chemistry (Continued)

Analysis Batch: 81414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38889-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	Moisture	
860-38889-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	Moisture	
860-38889-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	Moisture	
MB 860-81414/1	Method Blank	Total/NA	Solid	Moisture	
860-38889-1 DU	Cell 25-114-S-3-4-221207	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38889-1
Date Collected: 12/07/22 08:29 **Matrix: Solid**
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81596	12/13/22 13:23	MTMG	EET HOU
Total/NA	Prep	5030C			5.05 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81639	12/13/22 16:03	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38889-1
Date Collected: 12/07/22 08:29 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			9.57 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 15:39	EPF	EET CAN

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2
Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 13:27	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 04:27	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38889-2
Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19 **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	3546			9.64 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 16:06	EPF	EET CAN

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3
Date Collected: 12/07/22 09:05 **Matrix: Solid**
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 13:47	MTMG	EET HOU
Total/NA	Prep	5030C			5.02 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81639	12/13/22 16:35	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38889-3

Date Collected: 12/07/22 09:05 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			9.79 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 16:32	EPF	EET CAN

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38889-4

Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 14:08	MTMG	EET HOU
Total/NA	Prep	5030C			5.01 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 05:29	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38889-4

Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 88.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.15 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 16:59	EPF	EET CAN

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38889-5

Date Collected: 12/07/22 10:08 **Matrix: Solid**
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 14:29	MTMG	EET HOU
Total/NA	Prep	5030C			4.98 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 06:00	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38889-5

Date Collected: 12/07/22 10:08 **Matrix: Solid**
Date Received: 12/08/22 10:19 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.33 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 17:26	EPF	EET CAN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38889-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-198-S-3-4-221207
Lab Sample ID: 860-38889-6
Date Collected: 12/07/22 10:25
Matrix: Solid
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 14:49	MTMG	EET HOU
Total/NA	Prep	5030C			5.00 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 06:31	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-198-S-3-4-221207
Lab Sample ID: 860-38889-6
Date Collected: 12/07/22 10:25
Matrix: Solid
Date Received: 12/08/22 10:19
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	3546			9.87 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 17:53	EPF	EET CAN

Client Sample ID: Cell 26-129-S-3-4-221207
Lab Sample ID: 860-38889-7
Date Collected: 12/07/22 10:40
Matrix: Solid
Date Received: 12/08/22 10:19

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	81490	12/12/22 16:30	KLV	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	81600	12/13/22 15:10	MTMG	EET HOU
Total/NA	Prep	5030C			4.97 g	5 mL	81507	12/12/22 16:17	KLV	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	81517	12/13/22 07:02	AN	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-129-S-3-4-221207
Lab Sample ID: 860-38889-7
Date Collected: 12/07/22 10:40
Matrix: Solid
Date Received: 12/08/22 10:19
Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			9.98 g	5 mL	555628	12/13/22 08:28	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	555653	12/13/22 18:20	EPF	EET CAN

Laboratory References:
EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38889-1
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	08-04-23
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	T104704215-22-48	12-19-22
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Laboratory: Eurofins Canton

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	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Michigan	State	9135	02-27-23
Minnesota	NELAP	039-999-348	12-21-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38889-1

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 CAN
Moisture	Percent Moisture	EPA	EET HOU
3546	Microwave Extraction	SW846	EET CAN
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 CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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: 860-38889-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38889-1	Cell 25-114-S-3-4-221207	Solid	12/07/22 08:29	12/08/22 10:19
860-38889-2	Cell 25-179-S-3-4-221207	Solid	12/07/22 08:50	12/08/22 10:19
860-38889-3	Cell 25-187-S-3-4-221207	Solid	12/07/22 09:05	12/08/22 10:19
860-38889-4	Cell 26-79-S-3-4-221207	Solid	12/07/22 09:50	12/08/22 10:19
860-38889-5	Cell 26-115-S-3-4-221207	Solid	12/07/22 10:08	12/08/22 10:19
860-38889-6	Cell 26-198-S-3-4-221207	Solid	12/07/22 10:25	12/08/22 10:19
860-38889-7	Cell 26-129-S-3-4-221207	Solid	12/07/22 10:40	12/08/22 10:19

Page 1304 of 1603

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

Chain of Custody Record

860-38889 Chain of Custody

Environment Testing

Client Information	Sampler: Tony Longwell	Lab PM: Kudchadkar Sachin G	Page: Page 1 1
Client Contact: Sarah Johnson	Phone: 432-230-7809	E-Mail: Sachin.Kudchadkar@et.eurofinsus.	
Company: ARCADIS U.S. Inc.	PWSID:		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested	
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: Jal Land Farm	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

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 [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO,[C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 25-114-S-3-4-221207	12/07/22	0829	G	Solid			X		X	X	3	
Cell 25-179-S-3-4-221207	12/07/22	0850	G	Solid			X		X	X	3	
Cell 25-187-S-3-4-221207	12/07/22	0905	G	Solid			X		X	X	3	
Cell 26-79-S-3-4-221207	12/07/22	0950	G	Solid			X		X	X	3	
Cell 26-115-S-3-4-221207	12/07/22	1003	G	Solid			X		X	X	3	
Cell 26-198-S-3-4-221207	12/07/22	1025	G	Solid			X		X	X	3	
Cell 26-129-S-3-4-221207	12/07/22	1040	G	Solid			X		X	X	3	
				Solid								
				Solid								
				Solid								
				Solid								

Temp. IR ID.HOU-343
C/F +0.3 5.0
Corrected Temp: 5.3

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
	12/07/22 1509	ARCADIS		12/8/22 1049	Eurofins
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: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

1.8.17

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: 860-20049.1
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 #: 860-38889-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 12/21/2022			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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:

E132

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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell 25-114-S-3-4-221207 (860-38889-1)	12/7/22	08:29 Central		Solid			X	1	
Cell 25-179-S-3-4-221207 (860-38889-2)	12/7/22	08:50 Central		Solid			X	1	
Cell 25-187-S-3-4-221207 (860-38889-3)	12/7/22	09:05 Central		Solid			X	1	
Cell 26-79-S-3-4-221207 (860-38889-4)	12/7/22	09:50 Central		Solid			X	1	
Cell 26-115-S-3-4-221207 (860-38889-5)	12/7/22	10:08 Central		Solid			X	1	
Cell 26-198-S-3-4-221207 (860-38889-6)	12/7/22	10:25 Central		Solid			X	1	
Cell 26-129-S-3-4-221207 (860-38889-7)	12/7/22	10:40 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: 12/9/22 1905	Company: Eurofins	Received by:	Date/Time: 12-10-22 10:00	Company: 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:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Eurofins Site Name _____ Cooler unpacked by: Charlie

Cooler Received on 12-10-22 Opened on 12-10-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # BC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.7 °C
   IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC286797
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ← Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____
_____
_____
_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38889-1

Login Number: 38889 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	5.3
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	

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 1/20/2023 11:55:55 AM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38892-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/20/2023 11:55:55 AM
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: 860-38892-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Job ID: 860-38892-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38892-1

REVISION

The report being provided is a revision of the original report sent on 12/15/2022. The report (revision 1) is being revised due to reanalyze at a lower dilution.

Report revision history

Receipt
The samples were received on 12/8/2022 10:19 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 5.3°C

Metals
Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-81587 and analytical batch 860-81704 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.

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38892-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.73	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	169		3.85	1.32	mg/Kg	10		6020B	Total/NA
Beryllium	0.261	J	1.92	0.192	mg/Kg	10		6020B	Total/NA
Chromium	4.64		3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	2.48	J b	3.85	0.385	mg/Kg	10		6020B	Total/NA
Iron	4120		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	2.97		1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	37.9		1.92	0.183	mg/Kg	10		6020B	Total/NA
Selenium	0.200	J	0.962	0.149	mg/Kg	5		6020B	Total/NA
Uranium	0.188	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	11.6		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38892-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.28	J	4.00	0.200	mg/Kg	10		6020B	Total/NA
Barium	367		4.00	1.37	mg/Kg	10		6020B	Total/NA
Chromium	2.14	J	4.00	0.540	mg/Kg	10		6020B	Total/NA
Copper	1.88	J b	4.00	0.400	mg/Kg	10		6020B	Total/NA
Iron	1660		20.0	1.28	mg/Kg	10		6020B	Total/NA
Lead	1.20	J	2.00	0.130	mg/Kg	10		6020B	Total/NA
Manganese	17.0		2.00	0.190	mg/Kg	10		6020B	Total/NA
Uranium	0.361	J	1.00	0.100	mg/Kg	10		6020B	Total/NA
Zinc	8.82		4.00	1.17	mg/Kg	10		6020B	Total/NA
Mercury	0.0103	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38892-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.53	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	36.9		3.92	1.34	mg/Kg	10		6020B	Total/NA
Beryllium	0.443	J	1.96	0.196	mg/Kg	10		6020B	Total/NA
Chromium	6.63		3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	2.65	J b	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	6710		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	4.99		1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	32.0		1.96	0.186	mg/Kg	10		6020B	Total/NA
Selenium	0.168	J	0.980	0.152	mg/Kg	5		6020B	Total/NA
Uranium	0.155	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA
Zinc	13.8		3.92	1.15	mg/Kg	10		6020B	Total/NA
Mercury	0.00865	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38892-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.72	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	467		3.85	1.32	mg/Kg	10		6020B	Total/NA
Chromium	1.57	J	3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	2.37	J b	3.85	0.385	mg/Kg	10		6020B	Total/NA
Iron	1390		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	1.05	J	1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	14.1		1.92	0.183	mg/Kg	10		6020B	Total/NA

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: 860-38892-1

Client Sample ID: Cell 26-79-S-3-4-221207 (Continued) — Lab Sample ID: 860-38892-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.471	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	6.28		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 26-115-S-3-4-221207 — Lab Sample ID: 860-38892-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.66	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	310		3.85	1.32	mg/Kg	10		6020B	Total/NA
Chromium	2.00	J	3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	1.51	J b	3.85	0.385	mg/Kg	10		6020B	Total/NA
Iron	1690		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	1.74	J	1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	19.2		1.92	0.183	mg/Kg	10		6020B	Total/NA
Selenium	0.182	J	0.962	0.149	mg/Kg	5		6020B	Total/NA
Uranium	0.424	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	7.04		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 26-198-S-3-4-221207 — Lab Sample ID: 860-38892-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.75	J	4.00	0.200	mg/Kg	10		6020B	Total/NA
Barium	332		4.00	1.37	mg/Kg	10		6020B	Total/NA
Chromium	1.65	J	4.00	0.540	mg/Kg	10		6020B	Total/NA
Copper	1.43	J b	4.00	0.400	mg/Kg	10		6020B	Total/NA
Iron	1360		20.0	1.28	mg/Kg	10		6020B	Total/NA
Lead	1.55	J	2.00	0.130	mg/Kg	10		6020B	Total/NA
Manganese	14.8		2.00	0.190	mg/Kg	10		6020B	Total/NA
Uranium	0.399	J	1.00	0.100	mg/Kg	10		6020B	Total/NA
Zinc	4.69		4.00	1.17	mg/Kg	10		6020B	Total/NA
Mercury	0.0113	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 26-129-S-3-4-221207 — Lab Sample ID: 860-38892-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.73	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	79.0		3.51	1.20	mg/Kg	10		6020B	Total/NA
Beryllium	0.344	J	1.75	0.175	mg/Kg	10		6020B	Total/NA
Chromium	5.14		3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	3.93	b	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	4790		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	3.85		1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	82.5		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.178	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.315	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	15.4		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 22-49-S-3-4-221207 — Lab Sample ID: 860-38892-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.74	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	498		3.85	1.32	mg/Kg	10		6020B	Total/NA
Chromium	1.97	J	3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	1.43	J b	3.85	0.385	mg/Kg	10		6020B	Total/NA

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: 860-38892-1

Client Sample ID: Cell 22-49-S-3-4-221207 (Continued) — Lab Sample ID: 860-38892-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1630		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	1.31	J	1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	16.1		1.92	0.183	mg/Kg	10		6020B	Total/NA
Uranium	0.519	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	5.07		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 22-191-S-3-4-221207 — Lab Sample ID: 860-38892-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.05		4.00	0.200	mg/Kg	10		6020B	Total/NA
Barium	293		4.00	1.37	mg/Kg	10		6020B	Total/NA
Chromium	1.48	J	4.00	0.540	mg/Kg	10		6020B	Total/NA
Copper	1.66	J b	4.00	0.400	mg/Kg	10		6020B	Total/NA
Iron	1230		20.0	1.28	mg/Kg	10		6020B	Total/NA
Lead	0.884	J	2.00	0.130	mg/Kg	10		6020B	Total/NA
Manganese	10.8		2.00	0.190	mg/Kg	10		6020B	Total/NA
Selenium	0.161	J	1.00	0.155	mg/Kg	5		6020B	Total/NA
Uranium	0.478	J	1.00	0.100	mg/Kg	10		6020B	Total/NA
Zinc	6.18		4.00	1.17	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 22-158-S-3-4-221207 — Lab Sample ID: 860-38892-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.96	J	3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	774		3.77	1.29	mg/Kg	10		6020B	Total/NA
Beryllium	0.279	J	1.89	0.189	mg/Kg	10		6020B	Total/NA
Chromium	4.54		3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	2.23	J b	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	4640		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	2.80		1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	46.3		1.89	0.179	mg/Kg	10		6020B	Total/NA
Selenium	0.169	J	0.943	0.146	mg/Kg	5		6020B	Total/NA
Uranium	0.392	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	12.7		3.77	1.10	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 22-40-S-3-4-221207 — Lab Sample ID: 860-38892-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.93	J	3.57	0.179	mg/Kg	10		6020B	Total/NA
Barium	264		3.57	1.22	mg/Kg	10		6020B	Total/NA
Chromium	1.12	J	3.57	0.482	mg/Kg	10		6020B	Total/NA
Copper	1.26	J b	3.57	0.357	mg/Kg	10		6020B	Total/NA
Iron	969		17.9	1.14	mg/Kg	10		6020B	Total/NA
Lead	0.860	J	1.79	0.116	mg/Kg	10		6020B	Total/NA
Manganese	9.58		1.79	0.170	mg/Kg	10		6020B	Total/NA
Uranium	0.354	J	0.893	0.0893	mg/Kg	10		6020B	Total/NA
Zinc	5.82		3.57	1.04	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 23-209-S-3-4-221207 — Lab Sample ID: 860-38892-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.23		3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	445		3.77	1.29	mg/Kg	10		6020B	Total/NA

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: 860-38892-1

Client Sample ID: Cell 23-209-S-3-4-221207 (Continued) — Lab Sample ID: 860-38892-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.35	J	3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	1.94	J b	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	1210		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	0.884	J	1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	11.5		1.89	0.179	mg/Kg	10		6020B	Total/NA
Uranium	0.579	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	3.69	J	3.77	1.10	mg/Kg	10		6020B	Total/NA
Mercury	0.00949	J	0.0169	0.00758	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 23-133-S-3-4-221207 — Lab Sample ID: 860-38892-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.32	J	3.64	0.182	mg/Kg	10		6020B	Total/NA
Barium	177		3.64	1.25	mg/Kg	10		6020B	Total/NA
Beryllium	0.187	J	1.82	0.182	mg/Kg	10		6020B	Total/NA
Chromium	3.21	J	3.64	0.491	mg/Kg	10		6020B	Total/NA
Copper	2.27	J b	3.64	0.364	mg/Kg	10		6020B	Total/NA
Iron	2830		18.2	1.16	mg/Kg	10		6020B	Total/NA
Lead	2.17		1.82	0.118	mg/Kg	10		6020B	Total/NA
Manganese	29.3		1.82	0.173	mg/Kg	10		6020B	Total/NA
Selenium	0.251	J	0.909	0.141	mg/Kg	5		6020B	Total/NA
Uranium	0.368	J	0.909	0.0909	mg/Kg	10		6020B	Total/NA
Zinc	8.98		3.64	1.06	mg/Kg	10		6020B	Total/NA
Mercury	0.00920	J	0.0179	0.00799	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 23-112-S-3-4-221207 — Lab Sample ID: 860-38892-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.53	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	552		3.92	1.34	mg/Kg	10		6020B	Total/NA
Chromium	1.83	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	3.02	J b	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1620		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	1.11	J	1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	15.3		1.96	0.186	mg/Kg	10		6020B	Total/NA
Uranium	0.531	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA
Zinc	5.50		3.92	1.15	mg/Kg	10		6020B	Total/NA
Mercury	0.0104	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 23-88-S-3-4-221207 — Lab Sample ID: 860-38892-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.25	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	180		3.92	1.34	mg/Kg	10		6020B	Total/NA
Cadmium	0.0887	J	0.980	0.0882	mg/Kg	5		6020B	Total/NA
Chromium	1.92	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	1.47	J b	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1740		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	1.98		1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	24.4		1.96	0.186	mg/Kg	10		6020B	Total/NA
Selenium	0.238	J	0.980	0.152	mg/Kg	5		6020B	Total/NA
Uranium	0.319	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA

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: 860-38892-1

Client Sample ID: Cell 23-88-S-3-4-221207 (Continued) Lab Sample ID: 860-38892-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	6.25		3.92	1.15	mg/Kg	10		6020B	Total/NA
Mercury	0.0114	J	0.0179	0.00799	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-114-S-3-4-221207 Lab Sample ID: 860-38892-1

Date Collected: 12/07/22 08:29 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/13/22 09:38	01/16/23 22:03	5
Arsenic	**1.73**	**J**	3.85	0.192	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Barium	**169**		3.85	1.32	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Beryllium	**0.261**	**J**	1.92	0.192	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/13/22 09:38	01/16/23 22:03	5
Chromium	**4.64**		3.85	0.519	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Copper	**2.48**	**J b**	3.85	0.385	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Iron	**4120**		19.2	1.23	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Lead	**2.97**		1.92	0.125	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Manganese	**37.9**		1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Selenium	**0.200**	**J**	0.962	0.149	mg/Kg		12/13/22 09:38	01/16/23 22:03	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Uranium	**0.188**	**J**	0.962	0.0962	mg/Kg		12/13/22 09:38	12/13/22 16:59	10
Zinc	**11.6**		3.85	1.13	mg/Kg		12/13/22 09:38	12/13/22 16:59	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		12/12/22 15:46	12/13/22 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.1**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**91.0**				%			12/11/22 17:14	1

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38892-2

Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.07	U	2.00	1.07	mg/Kg		12/13/22 09:38	01/16/23 22:05	5
Arsenic	**2.28**	**J**	4.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Barium	**367**		4.00	1.37	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Beryllium	0.200	U	2.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Cadmium	0.0900	U	1.00	0.0900	mg/Kg		12/13/22 09:38	01/16/23 22:05	5
Chromium	**2.14**	**J**	4.00	0.540	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Copper	**1.88**	**J b**	4.00	0.400	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Iron	**1660**		20.0	1.28	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Lead	**1.20**	**J**	2.00	0.130	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Manganese	**17.0**		2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Selenium	0.155	U	1.00	0.155	mg/Kg		12/13/22 09:38	01/16/23 22:05	5
Silver	0.160	U	2.00	0.160	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Thallium	0.190	U	2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Uranium	**0.361**	**J**	1.00	0.100	mg/Kg		12/13/22 09:38	12/13/22 17:18	10
Zinc	**8.82**		4.00	1.17	mg/Kg		12/13/22 09:38	12/13/22 17:18	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0103**	**J**	0.0192	0.00861	mg/Kg		12/12/22 15:46	12/13/22 17:43	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-179-S-3-4-221207 Lab Sample ID: 860-38892-2
Date Collected: 12/07/22 08:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.5				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	91.5				%			12/11/22 17:14	1

Client Sample ID: Cell 25-187-S-3-4-221207 Lab Sample ID: 860-38892-3
Date Collected: 12/07/22 08:05 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/13/22 09:38	01/16/23 22:08	5
Arsenic	2.53	J	3.92	0.196	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Barium	36.9		3.92	1.34	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Beryllium	0.443	J	1.96	0.196	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/13/22 09:38	01/16/23 22:08	5
Chromium	6.63		3.92	0.529	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Copper	2.65	J b	3.92	0.392	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Iron	6710		19.6	1.25	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Lead	4.99		1.96	0.127	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Manganese	32.0		1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Selenium	0.168	J	0.980	0.152	mg/Kg		12/13/22 09:38	01/16/23 22:08	5
Silver	0.157	U	1.96	0.157	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Uranium	0.155	J	0.980	0.0980	mg/Kg		12/13/22 09:38	12/13/22 17:21	10
Zinc	13.8		3.92	1.15	mg/Kg		12/13/22 09:38	12/13/22 17:21	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		12/12/22 15:46	12/13/22 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.3				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	92.7				%			12/11/22 17:14	1

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38892-4
Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/13/22 09:38	01/16/23 22:10	5
Arsenic	2.72	J	3.85	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Barium	467		3.85	1.32	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/13/22 09:38	01/16/23 22:10	5
Chromium	1.57	J	3.85	0.519	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Copper	2.37	J b	3.85	0.385	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Iron	1390		19.2	1.23	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Lead	1.05	J	1.92	0.125	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Manganese	14.1		1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Selenium	0.149	U	0.962	0.149	mg/Kg		12/13/22 09:38	01/16/23 22:10	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-79-S-3-4-221207 Lab Sample ID: 860-38892-4

Date Collected: 12/07/22 09:50 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.154	U	1.92	0.154	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Uranium	**0.471**	**J**	0.962	0.0962	mg/Kg		12/13/22 09:38	12/13/22 17:24	10
Zinc	**6.28**		3.85	1.13	mg/Kg		12/13/22 09:38	12/13/22 17:24	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		12/12/22 15:46	12/13/22 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.6**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**89.4**				%			12/11/22 17:14	1

Client Sample ID: Cell 26-115-S-3-4-221207 Lab Sample ID: 860-38892-5

Date Collected: 12/07/22 10:08 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/13/22 09:38	01/16/23 22:13	5
Arsenic	**2.66**	**J**	3.85	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Barium	**310**		3.85	1.32	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/13/22 09:38	01/16/23 22:13	5
Chromium	**2.00**	**J**	3.85	0.519	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Copper	**1.51**	**J b**	3.85	0.385	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Iron	**1690**		19.2	1.23	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Lead	**1.74**	**J**	1.92	0.125	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Manganese	**19.2**		1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Selenium	**0.182**	**J**	0.962	0.149	mg/Kg		12/13/22 09:38	01/16/23 22:13	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Uranium	**0.424**	**J**	0.962	0.0962	mg/Kg		12/13/22 09:38	12/13/22 17:26	10
Zinc	**7.04**		3.85	1.13	mg/Kg		12/13/22 09:38	12/13/22 17:26	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00799	U	0.0179	0.00799	mg/Kg		12/12/22 15:46	12/13/22 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.8**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**90.3**				%			12/11/22 17:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Client Sample ID: Cell 26-198-S-3-4-221207

Lab Sample ID: 860-38892-6
Matrix: Solid
Date Collected: 12/07/22 10:25
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.07	U	2.00	1.07	mg/Kg		12/13/22 09:38	01/16/23 22:15	5
Arsenic	**2.75**	**J**	4.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Barium	**332**		4.00	1.37	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Beryllium	0.200	U	2.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Cadmium	0.0900	U	1.00	0.0900	mg/Kg		12/13/22 09:38	01/16/23 22:15	5
Chromium	**1.65**	**J**	4.00	0.540	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Copper	**1.43**	**J b**	4.00	0.400	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Iron	**1360**		20.0	1.28	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Lead	**1.55**	**J**	2.00	0.130	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Manganese	**14.8**		2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Selenium	0.155	U	1.00	0.155	mg/Kg		12/13/22 09:38	01/16/23 22:15	5
Silver	0.160	U	2.00	0.160	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Thallium	0.190	U	2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Uranium	**0.399**	**J**	1.00	0.100	mg/Kg		12/13/22 09:38	12/13/22 17:29	10
Zinc	**4.69**		4.00	1.17	mg/Kg		12/13/22 09:38	12/13/22 17:29	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0113**	**J**	0.0192	0.00861	mg/Kg		12/12/22 15:46	12/13/22 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.6**				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	**89.4**				%			12/11/22 17:14	1

Client Sample ID: Cell 26-129-S-3-4-221207

Lab Sample ID: 860-38892-7
Matrix: Solid
Date Collected: 12/07/22 10:40
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/13/22 09:38	01/16/23 22:18	5
Arsenic	**1.73**	**J**	3.51	0.175	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Barium	**79.0**		3.51	1.20	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Beryllium	**0.344**	**J**	1.75	0.175	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/13/22 09:38	01/16/23 22:18	5
Chromium	**5.14**		3.51	0.474	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Copper	**3.93**	**b**	3.51	0.351	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Iron	**4790**		17.5	1.12	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Lead	**3.85**		1.75	0.114	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Manganese	**82.5**		1.75	0.167	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Selenium	**0.178**	**J**	0.877	0.136	mg/Kg		12/13/22 09:38	01/16/23 22:18	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Uranium	**0.315**	**J**	0.877	0.0877	mg/Kg		12/13/22 09:38	12/13/22 17:32	10
Zinc	**15.4**		3.51	1.03	mg/Kg		12/13/22 09:38	12/13/22 17:32	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		12/12/22 15:46	12/13/22 17:22	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-129-S-3-4-221207 Lab Sample ID: 860-38892-7

Date Collected: 12/07/22 10:40 **Matrix: Solid**
Date Received: 12/08/22 10:19

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.1				%			12/11/22 17:14	1
Percent Solids (EPA Moisture)	95.9				%			12/11/22 17:14	1

Client Sample ID: Cell 22-49-S-3-4-221207 Lab Sample ID: 860-38892-8

Date Collected: 12/07/22 11:23 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/13/22 09:38	01/16/23 22:20	5
Arsenic	3.74	J	3.85	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Barium	498		3.85	1.32	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/13/22 09:38	01/16/23 22:20	5
Chromium	1.97	J	3.85	0.519	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Copper	1.43	J b	3.85	0.385	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Iron	1630		19.2	1.23	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Lead	1.31	J	1.92	0.125	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Manganese	16.1		1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Selenium	0.149	U	0.962	0.149	mg/Kg		12/13/22 09:38	01/16/23 22:20	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Uranium	0.519	J	0.962	0.0962	mg/Kg		12/13/22 09:38	12/13/22 17:35	10
Zinc	5.07		3.85	1.13	mg/Kg		12/13/22 09:38	12/13/22 17:35	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		12/12/22 15:46	12/13/22 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.6				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	94.4				%			12/12/22 11:12	1

Client Sample ID: Cell 22-191-S-3-4-221207 Lab Sample ID: 860-38892-9

Date Collected: 12/07/22 11:39 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.07	U	2.00	1.07	mg/Kg		12/13/22 09:38	01/17/23 15:32	5
Arsenic	4.05		4.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Barium	293		4.00	1.37	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Beryllium	0.200	U	2.00	0.200	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Cadmium	0.0900	U	1.00	0.0900	mg/Kg		12/13/22 09:38	01/17/23 15:32	5
Chromium	1.48	J	4.00	0.540	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Copper	1.66	J b	4.00	0.400	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Iron	1230		20.0	1.28	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Lead	0.884	J	2.00	0.130	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Manganese	10.8		2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Selenium	0.161	J	1.00	0.155	mg/Kg		12/13/22 09:38	01/17/23 15:32	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 22-191-S-3-4-221207 Lab Sample ID: 860-38892-9

Date Collected: 12/07/22 11:39 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.160	U	2.00	0.160	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Thallium	0.190	U	2.00	0.190	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Uranium	**0.478**	**J**	1.00	0.100	mg/Kg		12/13/22 09:38	12/13/22 17:37	10
Zinc	**6.18**		4.00	1.17	mg/Kg		12/13/22 09:38	12/13/22 17:37	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		12/12/22 15:46	12/13/22 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.4**				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	**93.6**				%			12/12/22 11:12	1

Client Sample ID: Cell 22-158-S-3-4-221207 Lab Sample ID: 860-38892-10

Date Collected: 12/07/22 11:56 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/13/22 09:38	01/17/23 15:35	5
Arsenic	**2.96**	**J**	3.77	0.189	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Barium	**774**		3.77	1.29	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Beryllium	**0.279**	**J**	1.89	0.189	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Cadmium	0.0849	U	0.943	0.0849	mg/Kg		12/13/22 09:38	01/17/23 15:35	5
Chromium	**4.54**		3.77	0.509	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Copper	**2.23**	**J b**	3.77	0.377	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Iron	**4640**		18.9	1.21	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Lead	**2.80**		1.89	0.123	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Manganese	**46.3**		1.89	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Selenium	**0.169**	**J**	0.943	0.146	mg/Kg		12/13/22 09:38	01/17/23 15:35	5
Silver	0.151	U	1.89	0.151	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Uranium	**0.392**	**J**	0.943	0.0943	mg/Kg		12/13/22 09:38	12/13/22 17:40	10
Zinc	**12.7**		3.77	1.10	mg/Kg		12/13/22 09:38	12/13/22 17:40	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		12/12/22 15:46	12/13/22 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.5**				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	**94.6**				%			12/12/22 11:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Client Sample ID: Cell 22-40-S-3-4-221207

Lab Sample ID: 860-38892-11
Date Collected: 12/07/22 12:10
Matrix: Solid
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.951	U	1.79	0.951	mg/Kg		12/13/22 09:38	01/17/23 15:37	5
Arsenic	**2.93**	**J**	3.57	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Barium	**264**		3.57	1.22	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Beryllium	0.179	U	1.79	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Cadmium	0.0804	U	0.893	0.0804	mg/Kg		12/13/22 09:38	01/17/23 15:37	5
Chromium	**1.12**	**J**	3.57	0.482	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Copper	**1.26**	**J b**	3.57	0.357	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Iron	**969**		17.9	1.14	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Lead	**0.860**	**J**	1.79	0.116	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Manganese	**9.58**		1.79	0.170	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Selenium	0.138	U	0.893	0.138	mg/Kg		12/13/22 09:38	01/17/23 15:37	5
Silver	0.143	U	1.79	0.143	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Thallium	0.170	U	1.79	0.170	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Uranium	**0.354**	**J**	0.893	0.0893	mg/Kg		12/13/22 09:38	12/13/22 17:43	10
Zinc	**5.82**		3.57	1.04	mg/Kg		12/13/22 09:38	12/13/22 17:43	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		12/12/22 15:55	12/13/22 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.6**				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	**96.4**				%			12/12/22 11:12	1

Client Sample ID: Cell 23-209-S-3-4-221207

Lab Sample ID: 860-38892-12
Date Collected: 12/07/22 12:29
Matrix: Solid
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/13/22 09:38	01/17/23 15:40	5
Arsenic	**5.23**		3.77	0.189	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Barium	**445**		3.77	1.29	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Cadmium	0.0849	U	0.943	0.0849	mg/Kg		12/13/22 09:38	01/17/23 15:40	5
Chromium	**1.35**	**J**	3.77	0.509	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Copper	**1.94**	**J b**	3.77	0.377	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Iron	**1210**		18.9	1.21	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Lead	**0.884**	**J**	1.89	0.123	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Manganese	**11.5**		1.89	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Selenium	0.146	U	0.943	0.146	mg/Kg		12/13/22 09:38	01/17/23 15:40	5
Silver	0.151	U	1.89	0.151	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Uranium	**0.579**	**J**	0.943	0.0943	mg/Kg		12/13/22 09:38	12/13/22 17:51	10
Zinc	**3.69**	**J**	3.77	1.10	mg/Kg		12/13/22 09:38	12/13/22 17:51	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00949**	**J**	0.0169	0.00758	mg/Kg		12/12/22 15:55	12/13/22 18:32	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 23-209-S-3-4-221207 Lab Sample ID: 860-38892-12

Date Collected: 12/07/22 12:29 **Matrix: Solid**
Date Received: 12/08/22 10:19

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.6				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	86.4				%			12/12/22 11:12	1

Client Sample ID: Cell 23-133-S-3-4-221207 Lab Sample ID: 860-38892-13

Date Collected: 12/07/22 12:51 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.968	U	1.82	0.968	mg/Kg		12/13/22 09:38	01/17/23 15:42	5
Arsenic	2.32	J	3.64	0.182	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Barium	177		3.64	1.25	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Beryllium	0.187	J	1.82	0.182	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Cadmium	0.0818	U	0.909	0.0818	mg/Kg		12/13/22 09:38	01/17/23 15:42	5
Chromium	3.21	J	3.64	0.491	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Copper	2.27	J b	3.64	0.364	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Iron	2830		18.2	1.16	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Lead	2.17		1.82	0.118	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Manganese	29.3		1.82	0.173	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Selenium	0.251	J	0.909	0.141	mg/Kg		12/13/22 09:38	01/17/23 15:42	5
Silver	0.145	U	1.82	0.145	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Thallium	0.173	U	1.82	0.173	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Uranium	0.368	J	0.909	0.0909	mg/Kg		12/13/22 09:38	12/13/22 18:00	10
Zinc	8.98		3.64	1.06	mg/Kg		12/13/22 09:38	12/13/22 18:00	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00920	J	0.0179	0.00799	mg/Kg		12/12/22 15:55	12/13/22 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.7				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	94.4				%			12/12/22 11:12	1

Client Sample ID: Cell 23-112-S-3-4-221207 Lab Sample ID: 860-38892-14

Date Collected: 12/07/22 13:00 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/13/22 09:38	01/17/23 15:45	5
Arsenic	3.53	J	3.92	0.196	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Barium	552		3.92	1.34	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/13/22 09:38	01/17/23 15:45	5
Chromium	1.83	J	3.92	0.529	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Copper	3.02	J b	3.92	0.392	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Iron	1620		19.6	1.25	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Lead	1.11	J	1.96	0.127	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Manganese	15.3		1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Selenium	0.152	U	0.980	0.152	mg/Kg		12/13/22 09:38	01/17/23 15:45	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 23-112-S-3-4-221207 Lab Sample ID: 860-38892-14

Date Collected: 12/07/22 13:00 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.157	U	1.96	0.157	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Uranium	**0.531**	**J**	0.980	0.0980	mg/Kg		12/13/22 09:38	12/13/22 18:03	10
Zinc	**5.50**		3.92	1.15	mg/Kg		12/13/22 09:38	12/13/22 18:03	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0104**	**J**	0.0189	0.00844	mg/Kg		12/12/22 15:55	12/13/22 18:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.3**				%			12/12/22 11:12	1
Percent Solids (EPA Moisture)	**90.7**				%			12/12/22 11:12	1

Client Sample ID: Cell 23-88-S-3-4-221207 Lab Sample ID: 860-38892-15

Date Collected: 12/07/22 13:09 **Matrix: Solid**
Date Received: 12/08/22 10:19

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/13/22 09:38	01/17/23 15:47	5
Arsenic	**2.25**	**J**	3.92	0.196	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Barium	**180**		3.92	1.34	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Cadmium	**0.0887**	**J**	0.980	0.0882	mg/Kg		12/13/22 09:38	01/17/23 15:47	5
Chromium	**1.92**	**J**	3.92	0.529	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Copper	**1.47**	**J b**	3.92	0.392	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Iron	**1740**		19.6	1.25	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Lead	**1.98**		1.96	0.127	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Manganese	**24.4**		1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Selenium	**0.238**	**J**	0.980	0.152	mg/Kg		12/13/22 09:38	01/17/23 15:47	5
Silver	0.157	U	1.96	0.157	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Uranium	**0.319**	**J**	0.980	0.0980	mg/Kg		12/13/22 09:38	12/13/22 18:06	10
Zinc	**6.25**		3.92	1.15	mg/Kg		12/13/22 09:38	12/13/22 18:06	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0114**	**J**	0.0179	0.00799	mg/Kg		12/12/22 15:55	12/13/22 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**-0.2**				%			12/12/22 12:12	1
Percent Solids (EPA Moisture)	**100.2**				%			12/12/22 12:12	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-81587/1-A
Matrix: Solid
Analysis Batch: 81704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	U	0.392	0.209	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Arsenic	0.0196	U	0.392	0.0196	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Barium	0.134	U	0.392	0.134	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Beryllium	0.0196	U	0.196	0.0196	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Cadmium	0.0176	U	0.196	0.0176	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Chromium	0.0529	U	0.392	0.0529	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Copper	0.05794	J	0.392	0.0392	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Iron	0.125	U	1.96	0.125	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Lead	0.0127	U	0.196	0.0127	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Manganese	0.0186	U	0.196	0.0186	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Selenium	0.0304	U	0.196	0.0304	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Silver	0.0157	U	0.196	0.0157	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Thallium	0.0186	U	0.196	0.0186	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Uranium	0.00980	U	0.0980	0.00980	mg/Kg		12/13/22 09:38	12/13/22 16:48	1
Zinc	0.115	U	0.392	0.115	mg/Kg		12/13/22 09:38	12/13/22 16:48	1

Lab Sample ID: LCS 860-81587/2-A
Matrix: Solid
Analysis Batch: 81704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	9.80	10.43		mg/Kg		106	80 - 120
Arsenic	9.80	8.230		mg/Kg		84	80 - 120
Barium	9.80	9.695		mg/Kg		99	80 - 120
Beryllium	9.80	9.250		mg/Kg		94	80 - 120
Cadmium	9.80	9.835		mg/Kg		100	80 - 120
Chromium	9.80	9.518		mg/Kg		97	80 - 120
Copper	9.80	9.512		mg/Kg		97	80 - 120
Iron	49.0	48.90		mg/Kg		100	80 - 120
Lead	9.80	9.751		mg/Kg		99	80 - 120
Manganese	9.80	9.545		mg/Kg		97	80 - 120
Selenium	9.80	9.315		mg/Kg		95	80 - 120
Silver	4.90	5.422		mg/Kg		111	80 - 120
Thallium	9.80	9.711		mg/Kg		99	80 - 120
Uranium	2.45	2.375		mg/Kg		97	80 - 120
Zinc	9.80	9.669		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-81587/3-A
Matrix: Solid
Analysis Batch: 81704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	10.35		mg/Kg		106	80 - 120	1	20
Arsenic	9.80	8.196		mg/Kg		84	80 - 120	0	20
Barium	9.80	9.399		mg/Kg		96	80 - 120	3	20
Beryllium	9.80	9.090		mg/Kg		93	80 - 120	2	20
Cadmium	9.80	9.641		mg/Kg		98	80 - 120	2	20
Chromium	9.80	9.347		mg/Kg		95	80 - 120	2	20
Copper	9.80	9.311		mg/Kg		95	80 - 120	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-81587/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81704 — **Prep Batch: 81587**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			49.0	48.25		mg/Kg		98	80 - 120	1	20
Lead			9.80	9.439		mg/Kg		96	80 - 120	3	20
Manganese			9.80	9.413		mg/Kg		96	80 - 120	1	20
Selenium			9.80	9.267		mg/Kg		95	80 - 120	1	20
Silver			4.90	5.325		mg/Kg		109	80 - 120	2	20
Thallium			9.80	9.466		mg/Kg		97	80 - 120	3	20
Uranium			2.45	2.314		mg/Kg		94	80 - 120	3	20
Zinc			9.80	9.473		mg/Kg		97	80 - 120	2	20

Lab Sample ID: 860-38892-1 MS — **Client Sample ID: Cell 25-114-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81704 — **Prep Batch: 81587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	2.05	U	10.2	9.517		mg/Kg	☼	93	75 - 125
Arsenic	1.73	J	10.2	11.09		mg/Kg	☼	90	75 - 125
Barium	169		10.2	125.3	4	mg/Kg	☼	-598	75 - 125
Beryllium	0.261	J	10.2	8.769		mg/Kg	☼	83	75 - 125
Cadmium	0.173	U	10.2	9.163		mg/Kg	☼	90	75 - 125
Chromium	4.64		10.2	14.22		mg/Kg	☼	90	75 - 125
Copper	2.48	J b	10.2	11.60		mg/Kg	☼	87	75 - 125
Iron	4120		50.9	4658	4	mg/Kg	☼	249	75 - 125
Lead	2.97		10.2	12.24		mg/Kg	☼	88	75 - 125
Manganese	37.9		10.2	52.59	4	mg/Kg	☼	107	75 - 125
Selenium	1.11	J	10.2	10.13		mg/Kg	☼	88	75 - 125
Silver	0.154	U	5.09	3.408	N1	mg/Kg	☼	67	75 - 125
Thallium	0.183	U	10.2	8.906		mg/Kg	☼	87	75 - 125
Uranium	0.188	J	2.55	2.544		mg/Kg	☼	92	75 - 125
Zinc	11.6		10.2	22.46		mg/Kg	☼	95	75 - 125

Lab Sample ID: 860-38892-1 MSD — **Client Sample ID: Cell 25-114-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81704 — **Prep Batch: 81587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	2.05	U	10.2	9.860		mg/Kg	☼	97	75 - 125	4	20
Arsenic	1.73	J	10.2	10.17		mg/Kg	☼	81	75 - 125	9	20
Barium	169		10.2	128.7	4	mg/Kg	☼	-565	75 - 125	3	20
Beryllium	0.261	J	10.2	8.892		mg/Kg	☼	85	75 - 125	1	20
Cadmium	0.173	U	10.2	9.425		mg/Kg	☼	93	75 - 125	3	20
Chromium	4.64		10.2	14.45		mg/Kg	☼	92	75 - 125	2	20
Copper	2.48	J b	10.2	11.68		mg/Kg	☼	88	75 - 125	1	20
Iron	4120		50.9	4761	4	mg/Kg	☼	453	75 - 125	2	20
Lead	2.97		10.2	12.54		mg/Kg	☼	91	75 - 125	2	20
Manganese	37.9		10.2	54.64	4	mg/Kg	☼	127	75 - 125	4	20
Selenium	1.11	J	10.2	10.41		mg/Kg	☼	90	75 - 125	3	20
Silver	0.154	U	5.09	3.525	N1	mg/Kg	☼	69	75 - 125	3	20
Thallium	0.183	U	10.2	9.107		mg/Kg	☼	89	75 - 125	2	20
Uranium	0.188	J	2.55	2.585		mg/Kg	☼	93	75 - 125	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-38892-1 MSD — **Client Sample ID: Cell 25-114-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81704 — **Prep Batch: 81587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	11.6		10.2	22.96		mg/Kg	☼	100	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-81493/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/12/22 15:45	12/13/22 17:18	1

Lab Sample ID: LCS 860-81493/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.182	0.1875		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 860-81493/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.179	0.1901		mg/Kg		106	80 - 120	1	20

Lab Sample ID: 860-38892-3 MS — **Client Sample ID: Cell 25-187-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00865	J	0.216	0.2504		mg/Kg	☼	112	75 - 125

Lab Sample ID: 860-38892-3 MSD — **Client Sample ID: Cell 25-187-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00865	J	0.212	0.2437		mg/Kg	☼	111	75 - 125	3	20

Lab Sample ID: 860-38892-7 MS — **Client Sample ID: Cell 26-129-S-3-4-221207**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81735 — **Prep Batch: 81493**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00861	U	0.190	0.1965		mg/Kg	☼	104	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-38892-7 MSD
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Cell 26-129-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00861	U	0.197	0.2115		mg/Kg	☼	107	75 - 125	7	20

Lab Sample ID: MB 860-81496/10-A
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/12/22 15:45	12/13/22 18:09	1

Lab Sample ID: LCS 860-81496/11-A
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.182	0.1957		mg/Kg		108	80 - 120

Lab Sample ID: LCSD 860-81496/12-A
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.179	0.1906		mg/Kg		107	80 - 120	3	20

Lab Sample ID: 860-38892-11 MS
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Cell 22-40-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00895	U	0.203	0.2178		mg/Kg	☼	107	75 - 125

Lab Sample ID: 860-38892-11 MSD
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Cell 22-40-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00895	U	0.196	0.2023		mg/Kg	☼	103	75 - 125	7	20

Lab Sample ID: 860-38892-15 MS
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Cell 23-88-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0114	J	0.185	0.1883		mg/Kg	☼	96	75 - 125

Lab Sample ID: 860-38892-15 MSD
Matrix: Solid
Analysis Batch: 81735

Client Sample ID: Cell 23-88-S-3-4-221207
Prep Type: Total/NA
Prep Batch: 81496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0114	J	0.178	0.1871		mg/Kg	☼	99	75 - 125	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-81414/1
Matrix: Solid
Analysis Batch: 81414

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.08				%			12/11/22 17:14	1
Percent Solids	99.9				%			12/11/22 17:14	1

Lab Sample ID: MB 860-81455/1
Matrix: Solid
Analysis Batch: 81455

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				%			12/12/22 11:12	1
Percent Solids	100.0				%			12/12/22 11:12	1

Lab Sample ID: MB 860-81518/1
Matrix: Solid
Analysis Batch: 81518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0				%			12/12/22 12:12	1
Percent Solids	97.0				%			12/12/22 12:12	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Metals

Prep Batch: 81493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	7471A	
MB 860-81493/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81493/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81493/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38892-3 MS	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-3 MSD	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-7 MS	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-7 MSD	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	

Prep Batch: 81496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	
MB 860-81496/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81496/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81496/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38892-11 MS	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-11 MSD	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-15 MS	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	
860-38892-15 MSD	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	

Prep Batch: 81587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	3051A	
MB 860-81587/1-A	Method Blank	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Metals (Continued)

Prep Batch: 81587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-81587/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-81587/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-38892-1 MS	Cell 25-114-S-3-4-221207	Total/NA	Solid	3051A	
860-38892-1 MSD	Cell 25-114-S-3-4-221207	Total/NA	Solid	3051A	

Analysis Batch: 81704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	6020B	81587
MB 860-81587/1-A	Method Blank	Total/NA	Solid	6020B	81587
LCS 860-81587/2-A	Lab Control Sample	Total/NA	Solid	6020B	81587
LCSD 860-81587/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	81587
860-38892-1 MS	Cell 25-114-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-1 MSD	Cell 25-114-S-3-4-221207	Total/NA	Solid	6020B	81587

Analysis Batch: 81735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	81496
MB 860-81493/10-A	Method Blank	Total/NA	Solid	7471A	81493
MB 860-81496/10-A	Method Blank	Total/NA	Solid	7471A	81496
LCS 860-81493/11-A	Lab Control Sample	Total/NA	Solid	7471A	81493
LCS 860-81496/11-A	Lab Control Sample	Total/NA	Solid	7471A	81496
LCSD 860-81493/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81493
LCSD 860-81496/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81496

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Metals (Continued)

Analysis Batch: 81735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-3 MS	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-3 MSD	Cell 25-187-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-7 MS	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-7 MSD	Cell 26-129-S-3-4-221207	Total/NA	Solid	7471A	81493
860-38892-11 MS	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-11 MSD	Cell 22-40-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-15 MS	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	81496
860-38892-15 MSD	Cell 23-88-S-3-4-221207	Total/NA	Solid	7471A	81496

Analysis Batch: 86057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	6020B	81587

Analysis Batch: 86217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	6020B	81587
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	6020B	81587

General Chemistry

Analysis Batch: 81414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-1	Cell 25-114-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-2	Cell 25-179-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-3	Cell 25-187-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-4	Cell 26-79-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-5	Cell 26-115-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-6	Cell 26-198-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-7	Cell 26-129-S-3-4-221207	Total/NA	Solid	Moisture	
MB 860-81414/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 81455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-8	Cell 22-49-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-9	Cell 22-191-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-10	Cell 22-158-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-11	Cell 22-40-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-12	Cell 23-209-S-3-4-221207	Total/NA	Solid	Moisture	
860-38892-13	Cell 23-133-S-3-4-221207	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

General Chemistry (Continued)

Analysis Batch: 81455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-14	Cell 23-112-S-3-4-221207	Total/NA	Solid	Moisture	
MB 860-81455/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 81518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38892-15	Cell 23-88-S-3-4-221207	Total/NA	Solid	Moisture	
MB 860-81518/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-114-S-3-4-221207
Lab Sample ID: 860-38892-1
Date Collected: 12/07/22 08:29
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:03	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 16:59	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:41	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 25-179-S-3-4-221207
Lab Sample ID: 860-38892-2
Date Collected: 12/07/22 08:50
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:05	SHZ	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:18	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:43	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 25-187-S-3-4-221207
Lab Sample ID: 860-38892-3
Date Collected: 12/07/22 08:05
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:08	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:21	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:44	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-79-S-3-4-221207
Lab Sample ID: 860-38892-4
Date Collected: 12/07/22 09:50
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:10	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:24	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:54	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-79-S-3-4-221207
Lab Sample ID: 860-38892-4
Date Collected: 12/07/22 09:50
Matrix: Solid
Date Received: 12/08/22 10:19

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			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-115-S-3-4-221207
Lab Sample ID: 860-38892-5
Date Collected: 12/07/22 10:08
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:13	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:26	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:55	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-198-S-3-4-221207
Lab Sample ID: 860-38892-6
Date Collected: 12/07/22 10:25
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:15	SHZ	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:29	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:56	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Client Sample ID: Cell 26-129-S-3-4-221207
Lab Sample ID: 860-38892-7
Date Collected: 12/07/22 10:40
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:18	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:32	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:22	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81414	12/11/22 17:14	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 22-49-S-3-4-221207
Lab Sample ID: 860-38892-8
Date Collected: 12/07/22 11:23
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86057	01/16/23 22:20	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:35	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 17:59	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 22-191-S-3-4-221207
Lab Sample ID: 860-38892-9
Date Collected: 12/07/22 11:39
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:32	SHZ	EET HOU
Total/NA	Prep	3051A			.5 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:37	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:00	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 22-158-S-3-4-221207
Lab Sample ID: 860-38892-10
Date Collected: 12/07/22 11:56
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:35	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:40	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81493	12/12/22 15:46	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:02	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 22-40-S-3-4-221207
Lab Sample ID: 860-38892-11
Date Collected: 12/07/22 12:10
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.56 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:37	SHZ	EET HOU
Total/NA	Prep	3051A			.56 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:43	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81496	12/12/22 15:55	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:13	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 22-40-S-3-4-221207
Lab Sample ID: 860-38892-11
Date Collected: 12/07/22 12:10
Matrix: Solid
Date Received: 12/08/22 10:19

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			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 23-209-S-3-4-221207
Lab Sample ID: 860-38892-12
Date Collected: 12/07/22 12:29
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:40	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 17:51	DP	EET HOU
Total/NA	Prep	7471A			.59 g	50 mL	81496	12/12/22 15:55	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:32	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 23-133-S-3-4-221207
Lab Sample ID: 860-38892-13
Date Collected: 12/07/22 12:51
Matrix: Solid
Date Received: 12/08/22 10:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.55 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:42	SHZ	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 18:00	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81496	12/12/22 15:55	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:33	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Client Sample ID: Cell 23-112-S-3-4-221207
Lab Sample ID: 860-38892-14
Date Collected: 12/07/22 13:00
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:45	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 18:03	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81496	12/12/22 15:55	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:35	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81455	12/12/22 11:12	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 23-88-S-3-4-221207
Lab Sample ID: 860-38892-15

Date Collected: 12/07/22 13:09
Matrix: Solid
Date Received: 12/08/22 10:19

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	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		5			86217	01/17/23 15:47	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	81587	12/13/22 09:38	AGR	EET HOU
Total/NA	Analysis	6020B		10			81704	12/13/22 18:06	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81496	12/12/22 15:55	MCA	EET HOU
Total/NA	Analysis	7471A		1			81735	12/13/22 18:36	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81518	12/12/22 12:12	ALL	EET HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38892-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38892-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-38892-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38892-1	Cell 25-114-S-3-4-221207	Solid	12/07/22 08:29	12/08/22 10:19
860-38892-2	Cell 25-179-S-3-4-221207	Solid	12/07/22 08:50	12/08/22 10:19
860-38892-3	Cell 25-187-S-3-4-221207	Solid	12/07/22 08:05	12/08/22 10:19
860-38892-4	Cell 26-79-S-3-4-221207	Solid	12/07/22 09:50	12/08/22 10:19
860-38892-5	Cell 26-115-S-3-4-221207	Solid	12/07/22 10:08	12/08/22 10:19
860-38892-6	Cell 26-198-S-3-4-221207	Solid	12/07/22 10:25	12/08/22 10:19
860-38892-7	Cell 26-129-S-3-4-221207	Solid	12/07/22 10:40	12/08/22 10:19
860-38892-8	Cell 22-49-S-3-4-221207	Solid	12/07/22 11:23	12/08/22 10:19
860-38892-9	Cell 22-191-S-3-4-221207	Solid	12/07/22 11:39	12/08/22 10:19
860-38892-10	Cell 22-158-S-3-4-221207	Solid	12/07/22 11:56	12/08/22 10:19
860-38892-11	Cell 22-40-S-3-4-221207	Solid	12/07/22 12:10	12/08/22 10:19
860-38892-12	Cell 23-209-S-3-4-221207	Solid	12/07/22 12:29	12/08/22 10:19
860-38892-13	Cell 23-133-S-3-4-221207	Solid	12/07/22 12:51	12/08/22 10:19
860-38892-14	Cell 23-112-S-3-4-221207	Solid	12/07/22 13:00	12/08/22 10:19
860-38892-15	Cell 23-88-S-3-4-221207	Solid	12/07/22 13:09	12/08/22 10:19

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

Chain of Custody Record



fins
Environment Testing

Client Information	Sampler: Jerry S Longwell	Lab PM: Kudchadkar Sachin G	[illegible]14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-230-2389	E-Mail: Sachin.Kudchadkar@et.eurofins[illegible].com	Page: Page
Company: ARCADIS U.S. 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 #: Purchase Order Requested		
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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U	Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N					
Cell 25-114-5-3-4-221207	12/07/22	0829	G	Solid			X	X	X		1	
Cell 25-179-5-3-4-221207	12/07/22	0850	G	Solid			X	X	X		1	
Cell 25-187-5-3-4-221207	12/07/22	0905	G	Solid			X	X	X		1	
Cell 26-79-5-3-4-221207	12/07/22	0950	G	Solid			X	X	X		1	
Cell 26-115-5-3-4-221207	12/07/22	1008	G	Solid			X	X	X		1	
Cell 26-193-5-3-4-221207	12/07/22	1025	G	Solid			X	X	X		1	
Cell 26-129-5-3-4-221207	12/07/22	1040	G	Solid			X	X	X		1	
Cell 22-48-5-3-4-221207	12/07/22	1123	G	Solid			X	X	X		1	
Cell 22-191-5-3-4-221207	12/07/22	1139	G	Solid			X	X	X		1	
Cell 22-158-5-3-4-221207	12/07/22	1155	G	Solid			X	X	X		1	
Cell 22-40-5-3-4-221207	12/07/22	1210	G	Solid			X	X	X		1	

Temp. 5.0 IR ID HOU-343
C/F +0.3
Corrected Temp: 5.3

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: 12/07/22 1314	Company: ARCADIS	Received by:	Date/Time: 12/8/22 1019	Company: Eurofins
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: 7/18/2023 11:20:27 AM
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Released to Imaging: 1/29/2025 3:31:29 PM

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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 Longwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-230-7309	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 23-208-5-3-4-221207	12/07/22	1229	G	Solid			X	X	X	1	
Cell 23-133-5-3-4-221207	12/07/22	1251	G	Solid			X	X	X	1	
Cell 23-112-5-3-4-221207	12/07/22	1300	G	Solid			X	X	X	1	
Cell 23-88-5-3-4-221207	12/07/22	1309	G	Solid			X	X	X	1	
				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: 12/08/22 1523	Company: ARCADIS	Received by: Sachin Jour	Date/Time: 12/8/22 10:19	Company: Eurofins
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: 7/18/2023 11:20:27 AM
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1/20/2023 (Rev. 1)
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Released to Imaging: 1/29/2025 3:31:29 PM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38892-1

Login Number: 38892 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	5.3
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 1/19/2023 12:52:02 PM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38967-1

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

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

Authorization



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1/19/2023 12:52:02 PM
Revision 1

Authorized for release by
Sachin Kudchadkar, Senior Project Manager
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(281)748-9025

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-38967-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Job ID: 860-38967-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38967-1

REVISION

The report being provided is a revision of the original report sent on 12/22/2022. The report (revision 1) is being revised due to reanalyze at a lower dilution.

Report revision history

Receipt
The samples were received on 12/9/2022 9:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C

Metals
Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-82109 and analytical batch 860-82304 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-81881 and analytical batch 860-82125 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) and post digestion spike (PDS) recoveries are within acceptance limits.

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 24-167-5-3-4-220812 Lab Sample ID: 860-38967-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.31	J	3.64	0.182	mg/Kg	10		6020B	Total/NA
Barium	113		3.64	1.25	mg/Kg	10		6020B	Total/NA
Beryllium	0.211	J	1.82	0.182	mg/Kg	10		6020B	Total/NA
Cadmium	0.107	J	0.909	0.0818	mg/Kg	5		6020B	Total/NA
Chromium	2.60	J	3.64	0.491	mg/Kg	10		6020B	Total/NA
Copper	1.16	J	3.64	0.364	mg/Kg	10		6020B	Total/NA
Iron	2030		18.2	1.16	mg/Kg	10		6020B	Total/NA
Lead	1.88		1.82	0.118	mg/Kg	10		6020B	Total/NA
Manganese	42.5		1.82	0.173	mg/Kg	10		6020B	Total/NA
Selenium	0.220	J	0.909	0.141	mg/Kg	5		6020B	Total/NA
Silver	0.320	J	1.82	0.145	mg/Kg	10		6020B	Total/NA
Uranium	0.310	J	0.909	0.0909	mg/Kg	10		6020B	Total/NA
Zinc	8.73		3.64	1.06	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 24-179-5-3-4-220812 Lab Sample ID: 860-38967-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.18	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	150		3.92	1.34	mg/Kg	10		6020B	Total/NA
Chromium	1.94	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	1.32	J	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1580		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	1.19	J	1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	20.6		1.96	0.186	mg/Kg	10		6020B	Total/NA
Selenium	0.219	J	0.980	0.152	mg/Kg	5		6020B	Total/NA
Uranium	0.322	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA
Zinc	4.65		3.92	1.15	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 24-45-5-3-4-220812 Lab Sample ID: 860-38967-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.58	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	414		3.85	1.32	mg/Kg	10		6020B	Total/NA
Chromium	3.22	J	3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	2.00	J	3.85	0.385	mg/Kg	10		6020B	Total/NA
Iron	2490		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	1.39	J	1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	26.2		1.92	0.183	mg/Kg	10		6020B	Total/NA
Uranium	0.319	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	6.79		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 24-25-5-3-4-220812 Lab Sample ID: 860-38967-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.02	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	117		3.92	1.34	mg/Kg	10		6020B	Total/NA
Chromium	1.37	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	0.978	J	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1130		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	0.750	J	1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	15.5		1.96	0.186	mg/Kg	10		6020B	Total/NA
Uranium	0.282	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 24-25-5-3-4-220812 (Continued) — Lab Sample ID: 860-38967-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	3.86	J	3.92	1.15	mg/Kg	10		6020B	Total/NA
Mercury	0.00813	J	0.0179	0.00799	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 13-46-5-3-4-220812 — Lab Sample ID: 860-38967-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.76	J	3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	295		3.77	1.29	mg/Kg	10		6020B	Total/NA
Chromium	1.84	J	3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	0.933	J	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	1450		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	0.941	J	1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	17.9		1.89	0.179	mg/Kg	10		6020B	Total/NA
Selenium	0.200	J	0.943	0.146	mg/Kg	5		6020B	Total/NA
Uranium	0.399	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	4.61		3.77	1.10	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 13-191-5-3-4-220812 — Lab Sample ID: 860-38967-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.09		4.00	0.200	mg/Kg	10		6020B	Total/NA
Barium	190		4.00	1.37	mg/Kg	10		6020B	Total/NA
Beryllium	0.234	J	2.00	0.200	mg/Kg	10		6020B	Total/NA
Chromium	3.13	J	4.00	0.540	mg/Kg	10		6020B	Total/NA
Copper	1.35	J	4.00	0.400	mg/Kg	10		6020B	Total/NA
Iron	2710		20.0	1.28	mg/Kg	10		6020B	Total/NA
Lead	2.12		2.00	0.130	mg/Kg	10		6020B	Total/NA
Manganese	28.0		2.00	0.190	mg/Kg	10		6020B	Total/NA
Selenium	0.242	J	1.00	0.155	mg/Kg	5		6020B	Total/NA
Uranium	0.397	J	1.00	0.100	mg/Kg	10		6020B	Total/NA
Zinc	7.70		4.00	1.17	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 13-197-5-3-4-220812 — Lab Sample ID: 860-38967-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.32	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	353		3.92	1.34	mg/Kg	10		6020B	Total/NA
Chromium	2.22	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	1.72	J	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1730		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	1.15	J	1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	20.1		1.96	0.186	mg/Kg	10		6020B	Total/NA
Selenium	0.168	J	0.980	0.152	mg/Kg	5		6020B	Total/NA
Uranium	0.425	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA
Zinc	5.18		3.92	1.15	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 13-104-5-3-4-220812 — Lab Sample ID: 860-38967-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.44		3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	162		3.85	1.32	mg/Kg	10		6020B	Total/NA
Chromium	2.07	J	3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	1.13	J	3.85	0.385	mg/Kg	10		6020B	Total/NA

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: 860-38967-1

Client Sample ID: Cell 13-104-5-3-4-220812 (Continued) — Lab Sample ID: 860-38967-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1730		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	1.11	J	1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	22.7		1.92	0.183	mg/Kg	10		6020B	Total/NA
Selenium	0.205	J	0.962	0.149	mg/Kg	5		6020B	Total/NA
Uranium	0.574	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	5.63		3.85	1.13	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 14-121-5-3-4-220812 — Lab Sample ID: 860-38967-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.11	J	3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	166		3.77	1.29	mg/Kg	10		6020B	Total/NA
Cadmium	0.0901	J	0.943	0.0849	mg/Kg	5		6020B	Total/NA
Chromium	1.69	J	3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	1.01	J	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	1350		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	0.917	J	1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	19.7		1.89	0.179	mg/Kg	10		6020B	Total/NA
Selenium	0.238	J	0.943	0.146	mg/Kg	5		6020B	Total/NA
Uranium	0.264	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	5.35		3.77	1.10	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 14-20-5-3-4-220812 — Lab Sample ID: 860-38967-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.90	J	3.77	0.189	mg/Kg	10		6020B	Total/NA
Barium	399		3.77	1.29	mg/Kg	10		6020B	Total/NA
Chromium	2.16	J	3.77	0.509	mg/Kg	10		6020B	Total/NA
Copper	1.71	J	3.77	0.377	mg/Kg	10		6020B	Total/NA
Iron	1710		18.9	1.21	mg/Kg	10		6020B	Total/NA
Lead	1.07	J	1.89	0.123	mg/Kg	10		6020B	Total/NA
Manganese	21.2		1.89	0.179	mg/Kg	10		6020B	Total/NA
Selenium	0.191	J	0.943	0.146	mg/Kg	5		6020B	Total/NA
Uranium	0.374	J	0.943	0.0943	mg/Kg	10		6020B	Total/NA
Zinc	5.21		3.77	1.10	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 14-50-5-3-4-220812 — Lab Sample ID: 860-38967-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.33	J	3.85	0.192	mg/Kg	10		6020B	Total/NA
Barium	119		3.85	1.32	mg/Kg	10		6020B	Total/NA
Beryllium	0.244	J	1.92	0.192	mg/Kg	10		6020B	Total/NA
Cadmium	0.0894	J	0.962	0.0865	mg/Kg	5		6020B	Total/NA
Chromium	5.09		3.85	0.519	mg/Kg	10		6020B	Total/NA
Copper	3.09	J	3.85	0.385	mg/Kg	10		6020B	Total/NA
Iron	4370		19.2	1.23	mg/Kg	10		6020B	Total/NA
Lead	2.88		1.92	0.125	mg/Kg	10		6020B	Total/NA
Manganese	64.5		1.92	0.183	mg/Kg	10		6020B	Total/NA
Selenium	0.242	J	0.962	0.149	mg/Kg	5		6020B	Total/NA
Uranium	0.313	J	0.962	0.0962	mg/Kg	10		6020B	Total/NA
Zinc	12.4		3.85	1.13	mg/Kg	10		6020B	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: 860-38967-1

Client Sample ID: Cell 14-47-5-3-4-220812 Lab Sample ID: 860-38967-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.93	J	3.57	0.179	mg/Kg	10		6020B	Total/NA
Barium	457		3.57	1.22	mg/Kg	10		6020B	Total/NA
Chromium	2.43	J	3.57	0.482	mg/Kg	10		6020B	Total/NA
Copper	1.19	J	3.57	0.357	mg/Kg	10		6020B	Total/NA
Iron	1980		17.9	1.14	mg/Kg	10		6020B	Total/NA
Lead	1.33	J	1.79	0.116	mg/Kg	10		6020B	Total/NA
Manganese	23.0		1.79	0.170	mg/Kg	10		6020B	Total/NA
Uranium	0.397	J	0.893	0.0893	mg/Kg	10		6020B	Total/NA
Zinc	5.71		3.57	1.04	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 15-20-5-3-4-220812 Lab Sample ID: 860-38967-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.48	J	3.92	0.196	mg/Kg	10		6020B	Total/NA
Barium	315		3.92	1.34	mg/Kg	10		6020B	Total/NA
Chromium	1.90	J	3.92	0.529	mg/Kg	10		6020B	Total/NA
Copper	1.19	J	3.92	0.392	mg/Kg	10		6020B	Total/NA
Iron	1520		19.6	1.25	mg/Kg	10		6020B	Total/NA
Lead	0.997	J	1.96	0.127	mg/Kg	10		6020B	Total/NA
Manganese	22.4		1.96	0.186	mg/Kg	10		6020B	Total/NA
Uranium	0.375	J	0.980	0.0980	mg/Kg	10		6020B	Total/NA
Zinc	4.49		3.92	1.15	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 15-146-5-3-4-220812 Lab Sample ID: 860-38967-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.59	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	367		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.81	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.17	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1410		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.949	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	21.1		1.75	0.167	mg/Kg	10		6020B	Total/NA
Uranium	0.423	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	4.74		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 15-76-5-3-4-220812 Lab Sample ID: 860-38967-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.64	J	3.64	0.182	mg/Kg	10		6020B	Total/NA
Barium	150		3.64	1.25	mg/Kg	10		6020B	Total/NA
Chromium	2.66	J	3.64	0.491	mg/Kg	10		6020B	Total/NA
Copper	1.12	J	3.64	0.364	mg/Kg	10		6020B	Total/NA
Iron	2120		18.2	1.16	mg/Kg	10		6020B	Total/NA
Lead	1.37	J	1.82	0.118	mg/Kg	10		6020B	Total/NA
Manganese	23.5		1.82	0.173	mg/Kg	10		6020B	Total/NA
Uranium	0.344	J	0.909	0.0909	mg/Kg	10		6020B	Total/NA
Zinc	5.60		3.64	1.06	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 15-153-5-3-4-220812 Lab Sample ID: 860-38967-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.43		3.33	0.167	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 15-153-5-3-4-220812 (Continued) Lab Sample ID: 860-38967-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	243		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	2.88	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.47	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	2320		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.22	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	28.9		1.67	0.158	mg/Kg	10		6020B	Total/NA
Uranium	0.383	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	6.27		3.33	0.975	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 24-167-5-3-4-220812

Lab Sample ID: 860-38967-1
Matrix: Solid
Date Collected: 12/08/22 08:45
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.968	U	1.82	0.968	mg/Kg		12/15/22 15:57	01/17/23 20:36	5
Arsenic	**2.31**	**J**	3.64	0.182	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Barium	**113**		3.64	1.25	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Beryllium	**0.211**	**J**	1.82	0.182	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Cadmium	**0.107**	**J**	0.909	0.0818	mg/Kg		12/15/22 15:57	01/17/23 20:36	5
Chromium	**2.60**	**J**	3.64	0.491	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Copper	**1.16**	**J**	3.64	0.364	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Iron	**2030**		18.2	1.16	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Lead	**1.88**		1.82	0.118	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Manganese	**42.5**		1.82	0.173	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Selenium	**0.220**	**J**	0.909	0.141	mg/Kg		12/15/22 15:57	01/17/23 20:36	5
Silver	**0.320**	**J**	1.82	0.145	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Thallium	0.173	U	1.82	0.173	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Uranium	**0.310**	**J**	0.909	0.0909	mg/Kg		12/15/22 15:57	12/16/22 17:00	10
Zinc	**8.73**		3.64	1.06	mg/Kg		12/15/22 15:57	12/16/22 17:00	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		12/13/22 16:15	12/14/22 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.0**				%			12/14/22 09:42	1
Percent Solids (EPA Moisture)	**86.0**				%			12/14/22 09:42	1

Client Sample ID: Cell 24-179-5-3-4-220812

Lab Sample ID: 860-38967-2
Matrix: Solid
Date Collected: 12/08/22 09:03
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/15/22 15:57	01/17/23 20:38	5
Arsenic	**2.18**	**J**	3.92	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Barium	**150**		3.92	1.34	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/15/22 15:57	01/17/23 20:38	5
Chromium	**1.94**	**J**	3.92	0.529	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Copper	**1.32**	**J**	3.92	0.392	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Iron	**1580**		19.6	1.25	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Lead	**1.19**	**J**	1.96	0.127	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Manganese	**20.6**		1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Selenium	**0.219**	**J**	0.980	0.152	mg/Kg		12/15/22 15:57	01/17/23 20:38	5
Silver	0.157	U	1.96	0.157	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Uranium	**0.322**	**J**	0.980	0.0980	mg/Kg		12/15/22 15:57	12/16/22 17:33	10
Zinc	**4.65**		3.92	1.15	mg/Kg		12/15/22 15:57	12/16/22 17:33	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		12/13/22 16:16	12/14/22 16:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 24-179-5-3-4-220812

Lab Sample ID: 860-38967-2
Date Collected: 12/08/22 09:03
Matrix: Solid
Date Received: 12/09/22 09:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.1				%			12/14/22 09:42	1
Percent Solids (EPA Moisture)	85.9				%			12/14/22 09:42	1

Client Sample ID: Cell 24-45-5-3-4-220812

Lab Sample ID: 860-38967-3
Date Collected: 12/08/22 09:22
Matrix: Solid
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/15/22 15:57	01/17/23 20:41	5
Arsenic	3.58	J	3.85	0.192	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Barium	414		3.85	1.32	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/15/22 15:57	01/17/23 20:41	5
Chromium	3.22	J	3.85	0.519	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Copper	2.00	J	3.85	0.385	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Iron	2490		19.2	1.23	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Lead	1.39	J	1.92	0.125	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Manganese	26.2		1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Selenium	0.149	U	0.962	0.149	mg/Kg		12/15/22 15:57	01/17/23 20:41	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Uranium	0.319	J	0.962	0.0962	mg/Kg		12/15/22 15:57	12/16/22 17:35	10
Zinc	6.79		3.85	1.13	mg/Kg		12/15/22 15:57	12/16/22 17:35	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		12/14/22 08:16	12/14/22 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.1				%			12/14/22 09:42	1
Percent Solids (EPA Moisture)	91.9				%			12/14/22 09:42	1

Client Sample ID: Cell 24-25-5-3-4-220812

Lab Sample ID: 860-38967-4
Date Collected: 12/08/22 09:43
Matrix: Solid
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/15/22 15:57	01/17/23 20:43	5
Arsenic	3.02	J	3.92	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Barium	117		3.92	1.34	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/15/22 15:57	01/17/23 20:43	5
Chromium	1.37	J	3.92	0.529	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Copper	0.978	J	3.92	0.392	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Iron	1130		19.6	1.25	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Lead	0.750	J	1.96	0.127	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Manganese	15.5		1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Selenium	0.152	U	0.980	0.152	mg/Kg		12/15/22 15:57	01/17/23 20:43	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 24-25-5-3-4-220812 Lab Sample ID: 860-38967-4

Date Collected: 12/08/22 09:43 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.157	U	1.96	0.157	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Uranium	**0.282**	**J**	0.980	0.0980	mg/Kg		12/15/22 15:57	12/16/22 17:38	10
Zinc	**3.86**	**J**	3.92	1.15	mg/Kg		12/15/22 15:57	12/16/22 17:38	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00813**	**J**	0.0179	0.00799	mg/Kg		12/14/22 08:16	12/14/22 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.1**				%			12/14/22 09:42	1
Percent Solids (EPA Moisture)	**94.9**				%			12/14/22 09:42	1

Client Sample ID: Cell 13-46-5-3-4-220812 Lab Sample ID: 860-38967-5

Date Collected: 12/08/22 10:10 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/15/22 15:57	01/17/23 20:48	5
Arsenic	**2.76**	**J**	3.77	0.189	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Barium	**295**		3.77	1.29	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Cadmium	0.0849	U	0.943	0.0849	mg/Kg		12/15/22 15:57	01/17/23 20:48	5
Chromium	**1.84**	**J**	3.77	0.509	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Copper	**0.933**	**J**	3.77	0.377	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Iron	**1450**		18.9	1.21	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Lead	**0.941**	**J**	1.89	0.123	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Manganese	**17.9**		1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Selenium	**0.200**	**J**	0.943	0.146	mg/Kg		12/15/22 15:57	01/17/23 20:48	5
Silver	0.151	U	1.89	0.151	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Uranium	**0.399**	**J**	0.943	0.0943	mg/Kg		12/15/22 15:57	12/16/22 17:40	10
Zinc	**4.61**		3.77	1.10	mg/Kg		12/15/22 15:57	12/16/22 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		12/14/22 08:16	12/14/22 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.7**				%			12/14/22 09:42	1
Percent Solids (EPA Moisture)	**95.3**				%			12/14/22 09:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 13-191-5-3-4-220812

Lab Sample ID: 860-38967-6
Matrix: Solid
Date Collected: 12/08/22 10:26
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.07	U	2.00	1.07	mg/Kg		12/15/22 15:57	01/17/23 20:51	5
Arsenic	**4.09**		4.00	0.200	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Barium	**190**		4.00	1.37	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Beryllium	**0.234**	**J**	2.00	0.200	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Cadmium	0.0900	U	1.00	0.0900	mg/Kg		12/15/22 15:57	01/17/23 20:51	5
Chromium	**3.13**	**J**	4.00	0.540	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Copper	**1.35**	**J**	4.00	0.400	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Iron	**2710**		20.0	1.28	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Lead	**2.12**		2.00	0.130	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Manganese	**28.0**		2.00	0.190	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Selenium	**0.242**	**J**	1.00	0.155	mg/Kg		12/15/22 15:57	01/17/23 20:51	5
Silver	0.160	U	2.00	0.160	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Thallium	0.190	U	2.00	0.190	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Uranium	**0.397**	**J**	1.00	0.100	mg/Kg		12/15/22 15:57	12/16/22 17:43	10
Zinc	**7.70**		4.00	1.17	mg/Kg		12/15/22 15:57	12/16/22 17:43	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00758	U	0.0169	0.00758	mg/Kg		12/14/22 15:29	12/15/22 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.4**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**95.6**				%			12/14/22 09:45	1

Client Sample ID: Cell 13-197-5-3-4-220812

Lab Sample ID: 860-38967-7
Matrix: Solid
Date Collected: 12/08/22 10:42
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/15/22 15:57	01/17/23 20:53	5
Arsenic	**3.32**	**J**	3.92	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Barium	**353**		3.92	1.34	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/15/22 15:57	01/17/23 20:53	5
Chromium	**2.22**	**J**	3.92	0.529	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Copper	**1.72**	**J**	3.92	0.392	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Iron	**1730**		19.6	1.25	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Lead	**1.15**	**J**	1.96	0.127	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Manganese	**20.1**		1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Selenium	**0.168**	**J**	0.980	0.152	mg/Kg		12/15/22 15:57	01/17/23 20:53	5
Silver	0.157	U	1.96	0.157	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Uranium	**0.425**	**J**	0.980	0.0980	mg/Kg		12/15/22 15:57	12/16/22 17:45	10
Zinc	**5.18**		3.92	1.15	mg/Kg		12/15/22 15:57	12/16/22 17:45	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		12/14/22 15:29	12/15/22 15:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 13-197-5-3-4-220812

Lab Sample ID: 860-38967-7
Matrix: Solid
Date Collected: 12/08/22 10:42
Date Received: 12/09/22 09:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.4				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	92.6				%			12/14/22 09:45	1

Client Sample ID: Cell 13-104-5-3-4-220812

Lab Sample ID: 860-38967-8
Matrix: Solid
Date Collected: 12/08/22 10:55
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/15/22 15:57	01/17/23 20:55	5
Arsenic	4.44		3.85	0.192	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Barium	162		3.85	1.32	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Beryllium	0.192	U	1.92	0.192	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Cadmium	0.0865	U	0.962	0.0865	mg/Kg		12/15/22 15:57	01/17/23 20:55	5
Chromium	2.07	J	3.85	0.519	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Copper	1.13	J	3.85	0.385	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Iron	1730		19.2	1.23	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Lead	1.11	J	1.92	0.125	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Manganese	22.7		1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Selenium	0.205	J	0.962	0.149	mg/Kg		12/15/22 15:57	01/17/23 20:55	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Uranium	0.574	J	0.962	0.0962	mg/Kg		12/15/22 15:57	12/16/22 17:48	10
Zinc	5.63		3.85	1.13	mg/Kg		12/15/22 15:57	12/16/22 17:48	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		12/14/22 15:29	12/15/22 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	83.3				%			12/14/22 09:45	1

Client Sample ID: Cell 14-121-5-3-4-220812

Lab Sample ID: 860-38967-9
Matrix: Solid
Date Collected: 12/08/22 11:40
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/15/22 15:57	01/17/23 20:58	5
Arsenic	2.11	J	3.77	0.189	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Barium	166		3.77	1.29	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Cadmium	0.0901	J	0.943	0.0849	mg/Kg		12/15/22 15:57	01/17/23 20:58	5
Chromium	1.69	J	3.77	0.509	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Copper	1.01	J	3.77	0.377	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Iron	1350		18.9	1.21	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Lead	0.917	J	1.89	0.123	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Manganese	19.7		1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Selenium	0.238	J	0.943	0.146	mg/Kg		12/15/22 15:57	01/17/23 20:58	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 14-121-5-3-4-220812 Lab Sample ID: 860-38967-9

Date Collected: 12/08/22 11:40 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.151	U	1.89	0.151	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Uranium	**0.264**	**J**	0.943	0.0943	mg/Kg		12/15/22 15:57	12/16/22 17:58	10
Zinc	**5.35**		3.77	1.10	mg/Kg		12/15/22 15:57	12/16/22 17:58	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		12/14/22 15:29	12/15/22 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.8**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**94.2**				%			12/14/22 09:45	1

Client Sample ID: Cell 14-20-5-3-4-220812 Lab Sample ID: 860-38967-10

Date Collected: 12/08/22 11:56 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.00	U	1.89	1.00	mg/Kg		12/15/22 15:57	01/17/23 21:00	5
Arsenic	**2.90**	**J**	3.77	0.189	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Barium	**399**		3.77	1.29	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Beryllium	0.189	U	1.89	0.189	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Cadmium	0.0849	U	0.943	0.0849	mg/Kg		12/15/22 15:57	01/17/23 21:00	5
Chromium	**2.16**	**J**	3.77	0.509	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Copper	**1.71**	**J**	3.77	0.377	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Iron	**1710**		18.9	1.21	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Lead	**1.07**	**J**	1.89	0.123	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Manganese	**21.2**		1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Selenium	**0.191**	**J**	0.943	0.146	mg/Kg		12/15/22 15:57	01/17/23 21:00	5
Silver	0.151	U	1.89	0.151	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Thallium	0.179	U	1.89	0.179	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Uranium	**0.374**	**J**	0.943	0.0943	mg/Kg		12/15/22 15:57	12/16/22 18:01	10
Zinc	**5.21**		3.77	1.10	mg/Kg		12/15/22 15:57	12/16/22 18:01	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		12/14/22 15:29	12/15/22 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.6**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**92.4**				%			12/14/22 09:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 14-50-5-3-4-220812

Lab Sample ID: 860-38967-11
Matrix: Solid
Date Collected: 12/08/22 12:13
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.02	U	1.92	1.02	mg/Kg		12/15/22 15:57	01/17/23 21:08	5
Arsenic	**2.33**	**J**	3.85	0.192	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Barium	**119**		3.85	1.32	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Beryllium	**0.244**	**J**	1.92	0.192	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Cadmium	**0.0894**	**J**	0.962	0.0865	mg/Kg		12/15/22 15:57	01/17/23 21:08	5
Chromium	**5.09**		3.85	0.519	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Copper	**3.09**	**J**	3.85	0.385	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Iron	**4370**		19.2	1.23	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Lead	**2.88**		1.92	0.125	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Manganese	**64.5**		1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Selenium	**0.242**	**J**	0.962	0.149	mg/Kg		12/15/22 15:57	01/17/23 21:08	5
Silver	0.154	U	1.92	0.154	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Thallium	0.183	U	1.92	0.183	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Uranium	**0.313**	**J**	0.962	0.0962	mg/Kg		12/15/22 15:57	12/16/22 18:08	10
Zinc	**12.4**		3.85	1.13	mg/Kg		12/15/22 15:57	12/16/22 18:08	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00772	U	0.0172	0.00772	mg/Kg		12/14/22 15:29	12/15/22 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.9**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**93.1**				%			12/14/22 09:45	1

Client Sample ID: Cell 14-47-5-3-4-220812

Lab Sample ID: 860-38967-12
Matrix: Solid
Date Collected: 12/08/22 12:28
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.951	U	1.79	0.951	mg/Kg		12/15/22 15:57	01/17/23 21:10	5
Arsenic	**2.93**	**J**	3.57	0.179	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Barium	**457**		3.57	1.22	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Beryllium	0.179	U	1.79	0.179	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Cadmium	0.0804	U	0.893	0.0804	mg/Kg		12/15/22 15:57	01/17/23 21:10	5
Chromium	**2.43**	**J**	3.57	0.482	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Copper	**1.19**	**J**	3.57	0.357	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Iron	**1980**		17.9	1.14	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Lead	**1.33**	**J**	1.79	0.116	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Manganese	**23.0**		1.79	0.170	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Selenium	0.138	U	0.893	0.138	mg/Kg		12/15/22 15:57	01/17/23 21:10	5
Silver	0.143	U	1.79	0.143	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Thallium	0.170	U	1.79	0.170	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Uranium	**0.397**	**J**	0.893	0.0893	mg/Kg		12/15/22 15:57	12/16/22 18:11	10
Zinc	**5.71**		3.57	1.04	mg/Kg		12/15/22 15:57	12/16/22 18:11	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		12/14/22 15:29	12/15/22 15:08	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Client Sample ID: Cell 14-47-5-3-4-220812

Lab Sample ID: 860-38967-12
Matrix: Solid
Date Collected: 12/08/22 12:28
Date Received: 12/09/22 09:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	95.8				%			12/14/22 09:45	1

Client Sample ID: Cell 15-20-5-3-4-220812

Lab Sample ID: 860-38967-13
Matrix: Solid
Date Collected: 12/08/22 12:43
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.04	U	1.96	1.04	mg/Kg		12/15/22 15:57	01/17/23 21:12	5
Arsenic	2.48	J	3.92	0.196	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Barium	315		3.92	1.34	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Beryllium	0.196	U	1.96	0.196	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Cadmium	0.0882	U	0.980	0.0882	mg/Kg		12/15/22 15:57	01/17/23 21:12	5
Chromium	1.90	J	3.92	0.529	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Copper	1.19	J	3.92	0.392	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Iron	1520		19.6	1.25	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Lead	0.997	J	1.96	0.127	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Manganese	22.4		1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Selenium	0.152	U	0.980	0.152	mg/Kg		12/15/22 15:57	01/17/23 21:12	5
Silver	0.157	U	1.96	0.157	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Thallium	0.186	U	1.96	0.186	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Uranium	0.375	J	0.980	0.0980	mg/Kg		12/15/22 15:57	12/16/22 18:13	10
Zinc	4.49		3.92	1.15	mg/Kg		12/15/22 15:57	12/16/22 18:13	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/14/22 15:29	12/15/22 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	95.6				%			12/14/22 09:45	1

Client Sample ID: Cell 15-146-5-3-4-220812

Lab Sample ID: 860-38967-14
Matrix: Solid
Date Collected: 12/08/22 13:00
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/15/22 15:57	01/17/23 21:15	5
Arsenic	2.59	J	3.51	0.175	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Barium	367		3.51	1.20	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/15/22 15:57	01/17/23 21:15	5
Chromium	1.81	J	3.51	0.474	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Copper	1.17	J	3.51	0.351	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Iron	1410		17.5	1.12	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Lead	0.949	J	1.75	0.114	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Manganese	21.1		1.75	0.167	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Selenium	0.136	U	0.877	0.136	mg/Kg		12/15/22 15:57	01/17/23 21:15	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 15-146-5-3-4-220812 Lab Sample ID: 860-38967-14

Date Collected: 12/08/22 13:00 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.140	U	1.75	0.140	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Uranium	**0.423**	**J**	0.877	0.0877	mg/Kg		12/15/22 15:57	12/16/22 18:16	10
Zinc	**4.74**		3.51	1.03	mg/Kg		12/15/22 15:57	12/16/22 18:16	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		12/14/22 15:29	12/15/22 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.8**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**94.2**				%			12/14/22 09:45	1

Client Sample ID: Cell 15-76-5-3-4-220812 Lab Sample ID: 860-38967-15

Date Collected: 12/08/22 13:15 **Matrix: Solid**
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.968	U	1.82	0.968	mg/Kg		12/15/22 15:57	01/17/23 21:17	5
Arsenic	**2.64**	**J**	3.64	0.182	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Barium	**150**		3.64	1.25	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Beryllium	0.182	U	1.82	0.182	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Cadmium	0.0818	U	0.909	0.0818	mg/Kg		12/15/22 15:57	01/17/23 21:17	5
Chromium	**2.66**	**J**	3.64	0.491	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Copper	**1.12**	**J**	3.64	0.364	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Iron	**2120**		18.2	1.16	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Lead	**1.37**	**J**	1.82	0.118	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Manganese	**23.5**		1.82	0.173	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Selenium	0.141	U	0.909	0.141	mg/Kg		12/15/22 15:57	01/17/23 21:17	5
Silver	0.145	U	1.82	0.145	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Thallium	0.173	U	1.82	0.173	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Uranium	**0.344**	**J**	0.909	0.0909	mg/Kg		12/15/22 15:57	12/16/22 18:18	10
Zinc	**5.60**		3.64	1.06	mg/Kg		12/15/22 15:57	12/16/22 18:18	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00758	U	0.0169	0.00758	mg/Kg		12/14/22 15:29	12/15/22 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**93.7**				%			12/14/22 09:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 15-153-5-3-4-220812
Lab Sample ID: 860-38967-16
Date Collected: 12/08/22 13:35
Matrix: Solid
Date Received: 12/09/22 09:38

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/15/22 15:57	01/17/23 21:20	5
Arsenic	**3.43**		3.33	0.167	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Barium	**243**		3.33	1.14	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/15/22 15:57	01/17/23 21:20	5
Chromium	**2.88**	**J**	3.33	0.450	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Copper	**1.47**	**J**	3.33	0.333	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Iron	**2320**		16.7	1.07	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Lead	**1.22**	**J**	1.67	0.108	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Manganese	**28.9**		1.67	0.158	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Selenium	0.129	U	0.833	0.129	mg/Kg		12/15/22 15:57	01/17/23 21:20	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Uranium	**0.383**	**J**	0.833	0.0833	mg/Kg		12/15/22 15:57	12/16/22 18:21	10
Zinc	**6.27**		3.33	0.975	mg/Kg		12/15/22 15:57	12/16/22 18:21	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00746	U	0.0167	0.00746	mg/Kg		12/14/22 15:29	12/15/22 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.7**				%			12/14/22 09:45	1
Percent Solids (EPA Moisture)	**93.3**				%			12/14/22 09:45	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-82109/1-A
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.205	U	0.385	0.205	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Arsenic	0.0192	U	0.385	0.0192	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Barium	0.132	U	0.385	0.132	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Beryllium	0.0192	U	0.192	0.0192	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Cadmium	0.0173	U	0.192	0.0173	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Chromium	0.0519	U	0.385	0.0519	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Copper	0.0385	U	0.385	0.0385	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Iron	0.123	U	1.92	0.123	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Lead	0.0125	U	0.192	0.0125	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Manganese	0.0183	U	0.192	0.0183	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Selenium	0.0298	U	0.192	0.0298	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Silver	0.0154	U	0.192	0.0154	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Thallium	0.0183	U	0.192	0.0183	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Uranium	0.00962	U	0.0962	0.00962	mg/Kg		12/15/22 15:57	12/16/22 16:48	1
Zinc	0.113	U	0.385	0.113	mg/Kg		12/15/22 15:57	12/16/22 16:48	1

Lab Sample ID: LCS 860-82109/2-A
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	9.80	9.155		mg/Kg		93	80 - 120
Arsenic	9.80	9.692		mg/Kg		99	80 - 120
Barium	9.80	9.501		mg/Kg		97	80 - 120
Beryllium	9.80	9.400		mg/Kg		96	80 - 120
Cadmium	9.80	9.486		mg/Kg		97	80 - 120
Chromium	9.80	9.562		mg/Kg		98	80 - 120
Copper	9.80	9.409		mg/Kg		96	80 - 120
Iron	49.0	48.99		mg/Kg		100	80 - 120
Lead	9.80	9.508		mg/Kg		97	80 - 120
Manganese	9.80	9.425		mg/Kg		96	80 - 120
Selenium	9.80	9.116		mg/Kg		93	80 - 120
Silver	4.90	5.156		mg/Kg		105	80 - 120
Thallium	9.80	9.487		mg/Kg		97	80 - 120
Uranium	2.45	2.315		mg/Kg		94	80 - 120
Zinc	9.80	9.493		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 860-82109/3-A
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82109

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	9.470		mg/Kg		97	80 - 120	3	20
Arsenic	9.80	9.770		mg/Kg		100	80 - 120	1	20
Barium	9.80	9.556		mg/Kg		97	80 - 120	1	20
Beryllium	9.80	9.418		mg/Kg		96	80 - 120	0	20
Cadmium	9.80	9.562		mg/Kg		98	80 - 120	1	20
Chromium	9.80	9.600		mg/Kg		98	80 - 120	0	20
Copper	9.80	9.502		mg/Kg		97	80 - 120	1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-82109/3-A
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			49.0	48.78		mg/Kg		100	80 - 120	0	20
Lead			9.80	9.539		mg/Kg		97	80 - 120	0	20
Manganese			9.80	9.459		mg/Kg		96	80 - 120	0	20
Selenium			9.80	9.533		mg/Kg		97	80 - 120	4	20
Silver			4.90	5.206		mg/Kg		106	80 - 120	1	20
Thallium			9.80	9.561		mg/Kg		98	80 - 120	1	20
Uranium			2.45	2.324		mg/Kg		95	80 - 120	0	20
Zinc			9.80	9.468		mg/Kg		97	80 - 120	0	20

Lab Sample ID: 860-38967-1 MS
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Cell 24-167-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 82109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.94	U	10.2	10.14		mg/Kg	☼	99	75 - 125
Arsenic	2.31	J	10.2	12.10		mg/Kg	☼	92	75 - 125
Barium	113		10.2	135.0	4	mg/Kg	☼	40	75 - 125
Beryllium	0.211	J	10.2	9.187		mg/Kg	☼	88	75 - 125
Cadmium	0.545	J	10.2	9.407		mg/Kg	☼	86	75 - 125
Chromium	2.60	J	10.2	12.35		mg/Kg	☼	91	75 - 125
Copper	1.16	J	10.2	10.25		mg/Kg	☼	87	75 - 125
Iron	2030		51.0	2281	4	mg/Kg	☼	-156	75 - 125
Lead	1.88		10.2	10.76		mg/Kg	☼	84	75 - 125
Manganese	42.5		10.2	34.09	4	mg/Kg	☼	-150	75 - 125
Selenium	0.674	J	10.2	11.57		mg/Kg	☼	106	75 - 125
Silver	0.320	J	5.10	5.061		mg/Kg	☼	92	75 - 125
Thallium	0.173	U	10.2	9.268		mg/Kg	☼	91	75 - 125
Uranium	0.310	J	2.55	2.703		mg/Kg	☼	92	75 - 125
Zinc	8.73		10.2	14.67	N1	mg/Kg	☼	44	75 - 125

Lab Sample ID: 860-38967-1 MSD
Matrix: Solid
Analysis Batch: 82304

Client Sample ID: Cell 24-167-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 82109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.94	U	10.0	10.29		mg/Kg	☼	103	75 - 125	1	20
Arsenic	2.31	J	10.0	12.19		mg/Kg	☼	95	75 - 125	1	20
Barium	113		10.0	133.7	4	mg/Kg	☼	29	75 - 125	1	20
Beryllium	0.211	J	10.0	8.876		mg/Kg	☼	86	75 - 125	3	20
Cadmium	0.545	J	10.0	9.350		mg/Kg	☼	87	75 - 125	1	20
Chromium	2.60	J	10.0	12.24		mg/Kg	☼	92	75 - 125	1	20
Copper	1.16	J	10.0	10.12		mg/Kg	☼	87	75 - 125	1	20
Iron	2030		50.1	2291	4	mg/Kg	☼	-138	75 - 125	0	20
Lead	1.88		10.0	10.71		mg/Kg	☼	85	75 - 125	1	20
Manganese	42.5		10.0	34.26	4	mg/Kg	☼	-151	75 - 125	0	20
Selenium	0.674	J	10.0	9.714		mg/Kg	☼	89	75 - 125	17	20
Silver	0.320	J	5.01	5.025		mg/Kg	☼	93	75 - 125	1	20
Thallium	0.173	U	10.0	9.176		mg/Kg	☼	92	75 - 125	1	20
Uranium	0.310	J	2.51	2.695		mg/Kg	☼	93	75 - 125	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-38967-1 MSD — **Client Sample ID: Cell 24-167-5-3-4-220812**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82304 — **Prep Batch: 82109**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	8.73		10.0	14.69	N1	mg/Kg	☼	45	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-81696/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81922 — **Prep Batch: 81696**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00746	U	0.0167	0.00746	mg/Kg		12/13/22 16:12	12/14/22 16:06	1

Lab Sample ID: LCS 860-81696/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81922 — **Prep Batch: 81696**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.172	0.1509		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 860-81696/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81922 — **Prep Batch: 81696**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.175	0.1646		mg/Kg		94	80 - 120	9	20

Lab Sample ID: 860-38967-1 MS — **Client Sample ID: Cell 24-167-5-3-4-220812**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81922 — **Prep Batch: 81696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00861	U	0.224	0.2077		mg/Kg	☼	93	75 - 125

Lab Sample ID: 860-38967-1 MSD — **Client Sample ID: Cell 24-167-5-3-4-220812**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81922 — **Prep Batch: 81696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00861	U	0.219	0.2001		mg/Kg	☼	91	75 - 125	4	20

Lab Sample ID: MB 860-81881/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82125 — **Prep Batch: 81881**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/14/22 15:28	12/15/22 14:48	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-81881/11-A
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.189	0.1872		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 860-81881/12-A
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.185	0.1770		mg/Kg		96	80 - 120	6	20

Lab Sample ID: 860-38967-6 MS
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Cell 13-191-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 81881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00758	U	0.180	0.1318	N1	mg/Kg	☼	73	75 - 125		

Lab Sample ID: 860-38967-6 MSD
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Cell 13-191-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 81881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00758	U	0.177	0.1187	N1	mg/Kg	☼	67	75 - 125	10	20

Lab Sample ID: 860-38967-16 MS
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Cell 15-153-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 81881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.00746	U	0.210	0.1249	N1	mg/Kg	☼	59	75 - 125		

Lab Sample ID: 860-38967-16 MSD
Matrix: Solid
Analysis Batch: 82125

Client Sample ID: Cell 15-153-5-3-4-220812
Prep Type: Total/NA
Prep Batch: 81881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00746	U	0.214	0.1446	N1	mg/Kg	☼	67	75 - 125	15	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-81837/1
Matrix: Solid
Analysis Batch: 81837

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				%			12/14/22 09:42	1
Percent Solids	99.9				%			12/14/22 09:42	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: MB 860-81838/1
Matrix: Solid
Analysis Batch: 81838

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				%			12/14/22 09:45	1
Percent Solids	99.9				%			12/14/22 09:45	1

Lab Sample ID: 860-38967-6 DU
Matrix: Solid
Analysis Batch: 81838

Client Sample ID: Cell 13-191-5-3-4-220812
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	4.4			4.5		%				0.9	20
Percent Solids	95.6			95.5		%				0	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Metals

Prep Batch: 81696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	7471A	
MB 860-81696/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81696/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81696/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38967-1 MS	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-1 MSD	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	

Prep Batch: 81881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	
MB 860-81881/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81881/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81881/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-38967-6 MS	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-6 MSD	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-16 MS	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	
860-38967-16 MSD	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	

Analysis Batch: 81922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	81696
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	7471A	81696
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	7471A	81696
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	7471A	81696
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	7471A	81696
MB 860-81696/10-A	Method Blank	Total/NA	Solid	7471A	81696
LCS 860-81696/11-A	Lab Control Sample	Total/NA	Solid	7471A	81696
LCSD 860-81696/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81696
860-38967-1 MS	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	81696
860-38967-1 MSD	Cell 24-167-5-3-4-220812	Total/NA	Solid	7471A	81696

Prep Batch: 82109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	3051A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Metals (Continued)

Prep Batch: 82109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	3051A	
MB 860-82109/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-82109/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-82109/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-38967-1 MS	Cell 24-167-5-3-4-220812	Total/NA	Solid	3051A	
860-38967-1 MSD	Cell 24-167-5-3-4-220812	Total/NA	Solid	3051A	

Analysis Batch: 82125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	81881
MB 860-81881/10-A	Method Blank	Total/NA	Solid	7471A	81881
LCS 860-81881/11-A	Lab Control Sample	Total/NA	Solid	7471A	81881
LCSD 860-81881/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81881
860-38967-6 MS	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-6 MSD	Cell 13-191-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-16 MS	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	81881
860-38967-16 MSD	Cell 15-153-5-3-4-220812	Total/NA	Solid	7471A	81881

Analysis Batch: 82304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	6020B	82109

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Metals (Continued)

Analysis Batch: 82304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	6020B	82109
MB 860-82109/1-A	Method Blank	Total/NA	Solid	6020B	82109
LCS 860-82109/2-A	Lab Control Sample	Total/NA	Solid	6020B	82109
LCSD 860-82109/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	82109
860-38967-1 MS	Cell 24-167-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-1 MSD	Cell 24-167-5-3-4-220812	Total/NA	Solid	6020B	82109

Analysis Batch: 86356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	6020B	82109
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	6020B	82109

General Chemistry

Analysis Batch: 81837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-1	Cell 24-167-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-2	Cell 24-179-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-3	Cell 24-45-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-4	Cell 24-25-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-5	Cell 13-46-5-3-4-220812	Total/NA	Solid	Moisture	
MB 860-81837/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 81838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-6	Cell 13-191-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-7	Cell 13-197-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-8	Cell 13-104-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-9	Cell 14-121-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-10	Cell 14-20-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-11	Cell 14-50-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-12	Cell 14-47-5-3-4-220812	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

General Chemistry (Continued)

Analysis Batch: 81838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38967-13	Cell 15-20-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-14	Cell 15-146-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-15	Cell 15-76-5-3-4-220812	Total/NA	Solid	Moisture	
860-38967-16	Cell 15-153-5-3-4-220812	Total/NA	Solid	Moisture	
MB 860-81838/1	Method Blank	Total/NA	Solid	Moisture	
860-38967-6 DU	Cell 13-191-5-3-4-220812	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 24-167-5-3-4-220812
Lab Sample ID: 860-38967-1
Date Collected: 12/08/22 08:45
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.55 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:36	SHZ	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:00	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81696	12/13/22 16:15	MCA	EET HOU
Total/NA	Analysis	7471A		1			81922	12/14/22 16:13	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81837	12/14/22 09:42	ALL	EET HOU

Client Sample ID: Cell 24-179-5-3-4-220812
Lab Sample ID: 860-38967-2
Date Collected: 12/08/22 09:03
Matrix: Solid
Date Received: 12/09/22 09:38

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	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:38	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:33	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81696	12/13/22 16:16	MCA	EET HOU
Total/NA	Analysis	7471A		1			81922	12/14/22 16:49	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81837	12/14/22 09:42	ALL	EET HOU

Client Sample ID: Cell 24-45-5-3-4-220812
Lab Sample ID: 860-38967-3
Date Collected: 12/08/22 09:22
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:41	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:35	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81696	12/14/22 08:16	MCA	EET HOU
Total/NA	Analysis	7471A		1			81922	12/14/22 16:50	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81837	12/14/22 09:42	ALL	EET HOU

Client Sample ID: Cell 24-25-5-3-4-220812
Lab Sample ID: 860-38967-4
Date Collected: 12/08/22 09:43
Matrix: Solid
Date Received: 12/09/22 09:38

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	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:43	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:38	DP	EET HOU
Total/NA	Prep	7471A			.56 g	50 mL	81696	12/14/22 08:16	MCA	EET HOU
Total/NA	Analysis	7471A		1			81922	12/14/22 16:52	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 24-25-5-3-4-220812
Lab Sample ID: 860-38967-4
Date Collected: 12/08/22 09:43
Matrix: Solid
Date Received: 12/09/22 09:38

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			81837	12/14/22 09:42	ALL	EET HOU

Client Sample ID: Cell 13-46-5-3-4-220812
Lab Sample ID: 860-38967-5
Date Collected: 12/08/22 10:10
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:48	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:40	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81696	12/14/22 08:16	MCA	EET HOU
Total/NA	Analysis	7471A		1			81922	12/14/22 16:53	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81837	12/14/22 09:42	ALL	EET HOU

Client Sample ID: Cell 13-191-5-3-4-220812
Lab Sample ID: 860-38967-6
Date Collected: 12/08/22 10:26
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.50 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:51	SHZ	EET HOU
Total/NA	Prep	3051A			.50 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:43	DP	EET HOU
Total/NA	Prep	7471A			.59 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 14:52	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 13-197-5-3-4-220812
Lab Sample ID: 860-38967-7
Date Collected: 12/08/22 10:42
Matrix: Solid
Date Received: 12/09/22 09:38

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	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:53	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:45	DP	EET HOU
Total/NA	Prep	7471A			.50 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:01	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 13-104-5-3-4-220812
Lab Sample ID: 860-38967-8
Date Collected: 12/08/22 10:55
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:55	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:48	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:03	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 14-121-5-3-4-220812
Lab Sample ID: 860-38967-9
Date Collected: 12/08/22 11:40
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 20:58	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 17:58	DP	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:04	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 14-20-5-3-4-220812
Lab Sample ID: 860-38967-10
Date Collected: 12/08/22 11:56
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:00	SHZ	EET HOU
Total/NA	Prep	3051A			.53 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:01	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:05	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 14-50-5-3-4-220812
Lab Sample ID: 860-38967-11
Date Collected: 12/08/22 12:13
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:08	SHZ	EET HOU
Total/NA	Prep	3051A			.52 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:08	DP	EET HOU
Total/NA	Prep	7471A			.58 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:07	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 14-50-5-3-4-220812
Lab Sample ID: 860-38967-11
Date Collected: 12/08/22 12:13
Matrix: Solid
Date Received: 12/09/22 09:38

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			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 14-47-5-3-4-220812
Lab Sample ID: 860-38967-12
Date Collected: 12/08/22 12:28
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.56 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:10	SHZ	EET HOU
Total/NA	Prep	3051A			.56 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:11	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:08	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 15-20-5-3-4-220812
Lab Sample ID: 860-38967-13
Date Collected: 12/08/22 12:43
Matrix: Solid
Date Received: 12/09/22 09:38

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	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:12	SHZ	EET HOU
Total/NA	Prep	3051A			.51 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:13	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:10	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 15-146-5-3-4-220812
Lab Sample ID: 860-38967-14
Date Collected: 12/08/22 13:00
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:15	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:16	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:11	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 15-76-5-3-4-220812
Lab Sample ID: 860-38967-15

Date Collected: 12/08/22 13:15
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.55 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:17	SHZ	EET HOU
Total/NA	Prep	3051A			.55 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:18	DP	EET HOU
Total/NA	Prep	7471A			.59 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:12	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Client Sample ID: Cell 15-153-5-3-4-220812
Lab Sample ID: 860-38967-16

Date Collected: 12/08/22 13:35
Matrix: Solid
Date Received: 12/09/22 09:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.60 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:20	SHZ	EET HOU
Total/NA	Prep	3051A			.60 g	50 mL	82109	12/15/22 15:57	AGR	EET HOU
Total/NA	Analysis	6020B		10			82304	12/16/22 18:21	DP	EET HOU
Total/NA	Prep	7471A			.60 g	50 mL	81881	12/14/22 15:29	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 15:16	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			81838	12/14/22 09:45	ALL	EET HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-38967-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38967-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-38967-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38967-1	Cell 24-167-5-3-4-220812	Solid	12/08/22 08:45	12/09/22 09:38
860-38967-2	Cell 24-179-5-3-4-220812	Solid	12/08/22 09:03	12/09/22 09:38
860-38967-3	Cell 24-45-5-3-4-220812	Solid	12/08/22 09:22	12/09/22 09:38
860-38967-4	Cell 24-25-5-3-4-220812	Solid	12/08/22 09:43	12/09/22 09:38
860-38967-5	Cell 13-46-5-3-4-220812	Solid	12/08/22 10:10	12/09/22 09:38
860-38967-6	Cell 13-191-5-3-4-220812	Solid	12/08/22 10:26	12/09/22 09:38
860-38967-7	Cell 13-197-5-3-4-220812	Solid	12/08/22 10:42	12/09/22 09:38
860-38967-8	Cell 13-104-5-3-4-220812	Solid	12/08/22 10:55	12/09/22 09:38
860-38967-9	Cell 14-121-5-3-4-220812	Solid	12/08/22 11:40	12/09/22 09:38
860-38967-10	Cell 14-20-5-3-4-220812	Solid	12/08/22 11:56	12/09/22 09:38
860-38967-11	Cell 14-50-5-3-4-220812	Solid	12/08/22 12:13	12/09/22 09:38
860-38967-12	Cell 14-47-5-3-4-220812	Solid	12/08/22 12:28	12/09/22 09:38
860-38967-13	Cell 15-20-5-3-4-220812	Solid	12/08/22 12:43	12/09/22 09:38
860-38967-14	Cell 15-146-5-3-4-220812	Solid	12/08/22 13:00	12/09/22 09:38
860-38967-15	Cell 15-76-5-3-4-220812	Solid	12/08/22 13:15	12/09/22 09:38
860-38967-16	Cell 15-153-5-3-4-220812	Solid	12/08/22 13:35	12/09/22 09:38

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-238-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal LF.	SSOW#:			

Analysis Requested

860-38967 Chain of Custody

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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 24-167-5-3-4-220812	12/08/22	0845	G	Solid			X	X	X	1	
Cell 24-129-5-3-4-220812	12/08/22	0903	G	Solid			X	X	X	1	
Cell 24-45-5-3-4-220812	12/08/22	0922	G	Solid			X	X	X	1	
Cell 24-25-5-3-4-220812	12/08/22	0943	G	Solid			X	X	X	1	
Cell 13-46-5-3-4-220812	12/08/22	1010	G	Solid			X	X	X	1	
Cell 13-191-5-3-4-220812	12/08/22	1026	G	Solid			X	X	X	1	
Cell 13-187-5-3-4-220812	12/08/22	1042	G	Solid			X	X	X	1	
Cell 13-104-5-3-4-220812	12/08/22	1055	G	Solid			X	X	X	1	
Cell 14-172-5-3-4-220812	12/08/22	1140	G	Solid			X	X	X	1	
Cell 14-70-5-3-4-220812	12/08/22	1156	G	Solid			X	X	X	1	
Cell 14-50-5-3-4-220812	12/08/22	1213	G	Solid			X	X	X	1	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/08/22 1525	Company: ARCADIS	Received by: FedEx
Relinquished by: FedEx	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		Temp: 2.7 IR ID:HOU-344 C/F:+1.2 Corrected Temp: 3.9

Date/Time:	Company
Date/Time: 12/9/22 9:38	Company Ex
Date/Time:	Company

Ver: 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jerry Silvernell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0376	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. 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)
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: Jal LF	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 4-47-5-3 & 220812	12/08/22	1228	G	Solid			X	X	X	1	
Cell 15-20-5-3-4-220812	12/08/22	1243	G	Solid			X	X	X	1	
Cell 15-146-5-3 & 220812	12/08/22	1300	G	Solid			X	X	X	1	
Cell 15-76-5-3-4-220812	12/08/22	1315	G	Solid			X	X	X	1	
Cell 15-153-5-3-4-220812	12/08/22	1335	G	Solid			X	X	X	1	
				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
	12/9/22 1525	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 12/9/22 938	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.

Ver: 01/16/2019

1/19/2023 (Rev. 1)

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal LF,	SSOW#:			

Analysis Requested

860-38967 Chain of Custody

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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 24-167-5-3-4-220812	12/08/22	0845	G	Solid			X	X	X	1	
Cell 24-129-5-3-4-220812	12/08/22	0903	G	Solid			X	X	X	1	
Cell 24-45-5-3-4-220812	12/08/22	0922	G	Solid			X	X	X	1	
Cell 24-25-5-3-4-220812	12/08/22	0943	G	Solid			X	X	X	1	
Cell 13-46-5-3-4-220812	12/08/22	1010	G	Solid			X	X	X	1	
Cell 13-191-5-3-4-220812	12/08/22	1026	G	Solid			X	X	X	1	
Cell 13-197-5-3-4-220812	12/08/22	1042	G	Solid			X	X	X	1	
Cell 13-104-5-3-4-220812	12/08/22	1055	G	Solid			X	X	X	1	
Cell 14-171-5-3-4-220812	12/08/22	1140	G	Solid			X	X	X	1	
Cell 14-70-5-3-4-220812	12/08/22	1156	G	Solid			X	X	X	1	
Cell 14-50-5-3-4-220812	12/08/22	1213	G	Solid			X	X	X	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/08/22 1525	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by: PhaPh	Date/Time: 12/9/22 9:38	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: 2.7 IR ID:HOU-344 C/F +1.2 Corrected Temp: 3.9

Ver 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jerry Sidorowicz	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-3776	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Midland	TAT Requested (days): Standard TAT			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)
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			Other:
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: Jal LF	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 14-47-5-3-4-220812	12/08/22	1228	G	Solid			X	X	X	1	
Cell 15-20-5-3-4-220712	12/08/22	1243	G	Solid			X	X	X	1	
Cell 15-146-5-3-4-220812	12/08/22	1300	G	Solid			X	X	X	1	
Cell 15-76-5-3-4-220812	12/08/22	1315	G	Solid			X	X	X	1	
Cell 15-153-5-3-4-220812	12/08/22	1335	G	Solid			X	X	X	1	
				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
	12/9/22 0525	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 12/9/22 938	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:

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38967-1

Login Number: 38967 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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	
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	

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 1/20/2023 2:00:31 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-38969-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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Job Notes

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

Authorization



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Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-38969-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-38969-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
N2	RPD of the MS and MSD exceeds the control limits
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: 860-38969-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-38969-1

Comments
No additional comments.

Receipt
The samples were received on 12/10/2022 9:28 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 3.2º C.

Metals
Method 6020B: The method blank for preparation batch 860-83282 and analytical batch 860-83586 contained Iron 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.

Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-83282 and analytical batch 860-83586 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 860-82153 was outside control limits. Sample non-homogeneity is suspected.

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

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Client Sample ID: Cell 16-13-S-3-4-220912 Lab Sample ID: 860-38969-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.08	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	155		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.00	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.25	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	806	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.830	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	11.7		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.209	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.305	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.96		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 16-75-S-3-4-220912 Lab Sample ID: 860-38969-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.68	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	295		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	3.04	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.52	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2650	b	16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.85		1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	26.3		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.139	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.314	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	6.90		3.39	0.992	mg/Kg	10		6020B	Total/NA
Mercury	0.00896	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 16-135-S-3-4-220912 Lab Sample ID: 860-38969-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.46	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	210		3.51	1.20	mg/Kg	10		6020B	Total/NA
Cadmium	0.124	J	0.877	0.0789	mg/Kg	5		6020B	Total/NA
Chromium	3.13	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	2.27	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2710	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	2.12		1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	34.3		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.268	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.316	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	7.57		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 16-88-S-3-4-220912 Lab Sample ID: 860-38969-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.50		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	307		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.60	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	0.904	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1410	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.03	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	12.5		1.72	0.164	mg/Kg	10		6020B	Total/NA
Uranium	0.417	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Client Sample ID: Cell 16-88-S-3-4-220912 (Continued) Lab Sample ID: 860-38969-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	3.68		3.45	1.01	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Client Sample ID: Cell 16-13-S-3-4-220912

Lab Sample ID: 860-38969-1
Date Collected: 12/09/22 13:04
Matrix: Solid
Date Received: 12/10/22 09:28

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/25/22 18:01	01/17/23 21:22	5
Arsenic	**3.08**	**J**	3.45	0.172	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Barium	**155**		3.45	1.18	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/25/22 18:01	01/17/23 21:22	5
Chromium	**1.00**	**J**	3.45	0.466	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Copper	**1.25**	**J**	3.45	0.345	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Iron	**806**	**b**	17.2	1.10	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Lead	**0.830**	**J**	1.72	0.112	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Manganese	**11.7**		1.72	0.164	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Selenium	**0.209**	**J**	0.862	0.134	mg/Kg		12/25/22 18:01	01/17/23 21:22	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Uranium	**0.305**	**J**	0.862	0.0862	mg/Kg		12/25/22 18:01	12/27/22 19:04	10
Zinc	**5.96**		3.45	1.01	mg/Kg		12/25/22 18:01	12/27/22 19:04	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		12/15/22 08:22	12/15/22 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.6**				%			12/15/22 16:33	1
Percent Solids (EPA Moisture)	**93.4**				%			12/15/22 16:33	1

Client Sample ID: Cell 16-75-S-3-4-220912

Lab Sample ID: 860-38969-2
Date Collected: 12/09/22 13:16
Matrix: Solid
Date Received: 12/10/22 09:28

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/25/22 18:01	01/17/23 21:25	5
Arsenic	**2.68**	**J**	3.39	0.169	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Barium	**295**		3.39	1.16	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/25/22 18:01	01/17/23 21:25	5
Chromium	**3.04**	**J**	3.39	0.458	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Copper	**1.52**	**J**	3.39	0.339	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Iron	**2650**	**b**	16.9	1.08	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Lead	**1.85**		1.69	0.110	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Manganese	**26.3**		1.69	0.161	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Selenium	**0.139**	**J**	0.847	0.131	mg/Kg		12/25/22 18:01	01/17/23 21:25	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Uranium	**0.314**	**J**	0.847	0.0847	mg/Kg		12/25/22 18:01	12/27/22 19:26	10
Zinc	**6.90**		3.39	0.992	mg/Kg		12/25/22 18:01	12/27/22 19:26	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00896**	**J**	0.0189	0.00844	mg/Kg		12/15/22 08:22	12/15/22 16:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Client Sample ID: Cell 16-75-S-3-4-220912

Lab Sample ID: 860-38969-2
Matrix: Solid
Date Collected: 12/09/22 13:16
Date Received: 12/10/22 09:28

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.9				%			12/15/22 16:33	1
Percent Solids (EPA Moisture)	93.1				%			12/15/22 16:33	1

Client Sample ID: Cell 16-135-S-3-4-220912

Lab Sample ID: 860-38969-3
Matrix: Solid
Date Collected: 12/09/22 13:29
Date Received: 12/10/22 09:28

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/25/22 18:01	01/17/23 21:27	5
Arsenic	2.46	J	3.51	0.175	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Barium	210		3.51	1.20	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Cadmium	0.124	J	0.877	0.0789	mg/Kg		12/25/22 18:01	01/17/23 21:27	5
Chromium	3.13	J	3.51	0.474	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Copper	2.27	J	3.51	0.351	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Iron	2710	b	17.5	1.12	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Lead	2.12		1.75	0.114	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Manganese	34.3		1.75	0.167	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Selenium	0.268	J	0.877	0.136	mg/Kg		12/25/22 18:01	01/17/23 21:27	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Uranium	0.316	J	0.877	0.0877	mg/Kg		12/25/22 18:01	12/27/22 19:29	10
Zinc	7.57		3.51	1.03	mg/Kg		12/25/22 18:01	12/27/22 19:29	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00746	U	0.0167	0.00746	mg/Kg		12/14/22 15:31	12/15/22 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.4				%			12/15/22 16:33	1
Percent Solids (EPA Moisture)	91.6				%			12/15/22 16:33	1

Client Sample ID: Cell 16-88-S-3-4-220912

Lab Sample ID: 860-38969-4
Matrix: Solid
Date Collected: 12/09/22 13:43
Date Received: 12/10/22 09:28

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/25/22 18:01	01/17/23 21:29	5
Arsenic	3.50		3.45	0.172	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Barium	307		3.45	1.18	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/25/22 18:01	01/17/23 21:29	5
Chromium	1.60	J	3.45	0.466	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Copper	0.904	J	3.45	0.345	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Iron	1410	b	17.2	1.10	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Lead	1.03	J	1.72	0.112	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Manganese	12.5		1.72	0.164	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Selenium	0.134	U	0.862	0.134	mg/Kg		12/25/22 18:01	01/17/23 21:29	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Client Sample ID: Cell 16-88-S-3-4-220912

Date Collected: 12/09/22 13:43
Date Received: 12/10/22 09:28

Lab Sample ID: 860-38969-4

Matrix: Solid

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.138	U	1.72	0.138	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Uranium	**0.417**	**J**	0.862	0.0862	mg/Kg		12/25/22 18:01	12/27/22 19:31	10
Zinc	**3.68**		3.45	1.01	mg/Kg		12/25/22 18:01	12/27/22 19:31	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		12/15/22 08:22	12/15/22 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.9**				%			12/15/22 16:33	1
Percent Solids (EPA Moisture)	**95.2**				%			12/15/22 16:33	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-83282/1-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	U	0.392	0.209	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Arsenic	0.0196	U	0.392	0.0196	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Barium	0.134	U	0.392	0.134	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Beryllium	0.0196	U	0.196	0.0196	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Cadmium	0.0176	U	0.196	0.0176	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Chromium	0.0529	U	0.392	0.0529	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Copper	0.0392	U	0.392	0.0392	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Iron	0.5043	J	1.96	0.125	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Lead	0.0127	U	0.196	0.0127	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Manganese	0.0186	U	0.196	0.0186	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Selenium	0.0304	U	0.196	0.0304	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Silver	0.0157	U	0.196	0.0157	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Thallium	0.0186	U	0.196	0.0186	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Uranium	0.00980	U	0.0980	0.00980	mg/Kg		12/25/22 18:01	12/27/22 18:55	1
Zinc	0.115	U	0.392	0.115	mg/Kg		12/25/22 18:01	12/27/22 18:55	1

Lab Sample ID: LCS 860-83282/2-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	8.439		mg/Kg		84	80 - 120
Arsenic	10.0	9.162		mg/Kg		92	80 - 120
Barium	10.0	9.096		mg/Kg		91	80 - 120
Beryllium	10.0	8.916		mg/Kg		89	80 - 120
Cadmium	10.0	8.731		mg/Kg		87	80 - 120
Chromium	10.0	8.878		mg/Kg		89	80 - 120
Copper	10.0	8.741		mg/Kg		87	80 - 120
Iron	50.0	42.79		mg/Kg		86	80 - 120
Lead	10.0	8.986		mg/Kg		90	80 - 120
Manganese	10.0	8.959		mg/Kg		90	80 - 120
Selenium	10.0	9.106		mg/Kg		91	80 - 120
Silver	5.00	4.181		mg/Kg		84	80 - 120
Thallium	10.0	9.000		mg/Kg		90	80 - 120
Uranium	2.50	2.280		mg/Kg		91	80 - 120
Zinc	10.0	8.986		mg/Kg		90	80 - 120

Lab Sample ID: LCSD 860-83282/3-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	8.554		mg/Kg		87	80 - 120	1	20
Arsenic	9.80	8.874		mg/Kg		91	80 - 120	3	20
Barium	9.80	8.874		mg/Kg		91	80 - 120	2	20
Beryllium	9.80	8.786		mg/Kg		90	80 - 120	1	20
Cadmium	9.80	8.777		mg/Kg		90	80 - 120	1	20
Chromium	9.80	8.815		mg/Kg		90	80 - 120	1	20
Copper	9.80	8.761		mg/Kg		89	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-83282/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83282**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			49.0	42.79		mg/Kg		87	80 - 120	0	20
Lead			9.80	8.743		mg/Kg		89	80 - 120	3	20
Manganese			9.80	8.997		mg/Kg		92	80 - 120	0	20
Selenium			9.80	8.946		mg/Kg		91	80 - 120	2	20
Silver			4.90	4.180		mg/Kg		85	80 - 120	0	20
Thallium			9.80	8.792		mg/Kg		90	80 - 120	2	20
Uranium			2.45	2.221		mg/Kg		91	80 - 120	3	20
Zinc			9.80	8.872		mg/Kg		90	80 - 120	1	20

Lab Sample ID: 860-38969-1 MS — **Client Sample ID: Cell 16-13-S-3-4-220912**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.84	U	9.39	5.715	N1	mg/Kg	☼	61	75 - 125
Arsenic	3.08	J	9.39	12.79		mg/Kg	☼	101	75 - 125
Barium	155		9.39	222.7	4	mg/Kg	☼	607	75 - 125
Beryllium	0.172	U	9.39	7.895		mg/Kg	☼	84	75 - 125
Cadmium	0.155	U	9.39	7.891		mg/Kg	☼	84	75 - 125
Chromium	1.00	J	9.39	9.374		mg/Kg	☼	88	75 - 125
Copper	1.25	J	9.39	9.001		mg/Kg	☼	82	75 - 125
Iron	806	b	47.0	1389	4	mg/Kg	☼	1119	75 - 125
Lead	0.830	J	9.39	8.869		mg/Kg	☼	85	75 - 125
Manganese	11.7		9.39	24.68	N1	mg/Kg	☼	129	75 - 125
Selenium	0.267	U	9.39	8.134		mg/Kg	☼	87	75 - 125
Silver	0.138	U	4.70	3.839		mg/Kg	☼	82	75 - 125
Thallium	0.164	U	9.39	8.069		mg/Kg	☼	86	75 - 125
Uranium	0.305	J	2.35	2.554		mg/Kg	☼	95	75 - 125
Zinc	5.96		9.39	12.36	N1	mg/Kg	☼	64	75 - 125

Lab Sample ID: 860-38969-1 MSD — **Client Sample ID: Cell 16-13-S-3-4-220912**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.84	U	9.23	4.044	N1 N2	mg/Kg	☼	44	75 - 125	34	20
Arsenic	3.08	J	9.23	10.00	N1 N2	mg/Kg	☼	73	75 - 125	24	20
Barium	155		9.23	286.9	4 N2	mg/Kg	☼	1313	75 - 125	25	20
Beryllium	0.172	U	9.23	5.677	N1 N2	mg/Kg	☼	62	75 - 125	33	20
Cadmium	0.155	U	9.23	5.649	N1 N2	mg/Kg	☼	61	75 - 125	33	20
Chromium	1.00	J	9.23	6.952	N1 N2	mg/Kg	☼	64	75 - 125	30	20
Copper	1.25	J	9.23	6.873	N1 N2	mg/Kg	☼	60	75 - 125	27	20
Iron	806	b	46.1	1109	4 N2	mg/Kg	☼	532	75 - 125	22	20
Lead	0.830	J	9.23	6.621	N1 N2	mg/Kg	☼	62	75 - 125	29	20
Manganese	11.7		9.23	19.37	N1 N2	mg/Kg	☼	74	75 - 125	24	20
Selenium	0.267	U	9.23	6.005	N1 N2	mg/Kg	☼	65	75 - 125	30	20
Silver	0.138	U	4.61	2.807	N1 N2	mg/Kg	☼	61	75 - 125	31	20
Thallium	0.164	U	9.23	6.001	N1 N2	mg/Kg	☼	65	75 - 125	29	20
Uranium	0.305	J	2.31	1.906	N1 N2	mg/Kg	☼	68	75 - 125	29	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-38969-1 MSD — **Client Sample ID: Cell 16-13-S-3-4-220912**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	5.96		9.23	9.609	N1 N2	mg/Kg	☼	35	75 - 125	25	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-81884/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82125 — **Prep Batch: 81884**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/14/22 15:28	12/15/22 15:38	1

Lab Sample ID: LCS 860-81884/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82125 — **Prep Batch: 81884**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.189	0.1889		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-81884/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82125 — **Prep Batch: 81884**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.185	0.1668		mg/Kg		90	80 - 120	12	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-82153/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.008				%			12/15/22 16:33	1
Percent Solids	100.0				%			12/15/22 16:33	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Metals

Prep Batch: 81884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	7471A	
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	7471A	
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	7471A	
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	7471A	
MB 860-81884/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-81884/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-81884/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Analysis Batch: 82125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	7471A	81884
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	7471A	81884
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	7471A	81884
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	7471A	81884
MB 860-81884/10-A	Method Blank	Total/NA	Solid	7471A	81884
LCS 860-81884/11-A	Lab Control Sample	Total/NA	Solid	7471A	81884
LCSD 860-81884/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	81884

Prep Batch: 83282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	3051A	
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	3051A	
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	3051A	
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	3051A	
MB 860-83282/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-83282/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-83282/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-38969-1 MS	Cell 16-13-S-3-4-220912	Total/NA	Solid	3051A	
860-38969-1 MSD	Cell 16-13-S-3-4-220912	Total/NA	Solid	3051A	

Analysis Batch: 83586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	6020B	83282
MB 860-83282/1-A	Method Blank	Total/NA	Solid	6020B	83282
LCS 860-83282/2-A	Lab Control Sample	Total/NA	Solid	6020B	83282
LCSD 860-83282/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	83282
860-38969-1 MS	Cell 16-13-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-1 MSD	Cell 16-13-S-3-4-220912	Total/NA	Solid	6020B	83282

Analysis Batch: 86356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	6020B	83282
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	6020B	83282

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

General Chemistry

Analysis Batch: 82153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-38969-1	Cell 16-13-S-3-4-220912	Total/NA	Solid	Moisture	
860-38969-2	Cell 16-75-S-3-4-220912	Total/NA	Solid	Moisture	
860-38969-3	Cell 16-135-S-3-4-220912	Total/NA	Solid	Moisture	
860-38969-4	Cell 16-88-S-3-4-220912	Total/NA	Solid	Moisture	
MB 860-82153/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38969-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 16-13-S-3-4-220912
Lab Sample ID: 860-38969-1
Date Collected: 12/09/22 13:04
Matrix: Solid
Date Received: 12/10/22 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 19:04	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:22	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	81884	12/15/22 08:22	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 16:25	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82153	12/15/22 16:33	ALL	EET HOU

Client Sample ID: Cell 16-75-S-3-4-220912
Lab Sample ID: 860-38969-2
Date Collected: 12/09/22 13:16
Matrix: Solid
Date Received: 12/10/22 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 19:26	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:25	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81884	12/15/22 08:22	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 16:24	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82153	12/15/22 16:33	ALL	EET HOU

Client Sample ID: Cell 16-135-S-3-4-220912
Lab Sample ID: 860-38969-3
Date Collected: 12/09/22 13:29
Matrix: Solid
Date Received: 12/10/22 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 19:29	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:27	SHZ	EET HOU
Total/NA	Prep	7471A			.60 g	50 mL	81884	12/14/22 15:31	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 16:22	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82153	12/15/22 16:33	ALL	EET HOU

Client Sample ID: Cell 16-88-S-3-4-220912
Lab Sample ID: 860-38969-4
Date Collected: 12/09/22 13:43
Matrix: Solid
Date Received: 12/10/22 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 19:31	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83282	12/25/22 18:01	PB	EET HOU
Total/NA	Analysis	6020B		5			86356	01/17/23 21:29	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	81884	12/15/22 08:22	MCA	EET HOU
Total/NA	Analysis	7471A		1			82125	12/15/22 16:26	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-38969-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 16-88-S-3-4-220912
Lab Sample ID: 860-38969-4

Date Collected: 12/09/22 13:43
Matrix: Solid
Date Received: 12/10/22 09:28

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			82153	12/15/22 16:33	ALL	EET HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-38969-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-38969-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-38969-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-38969-1	Cell 16-13-S-3-4-220912	Solid	12/09/22 13:04	12/10/22 09:28
860-38969-2	Cell 16-75-S-3-4-220912	Solid	12/09/22 13:16	12/10/22 09:28
860-38969-3	Cell 16-135-S-3-4-220912	Solid	12/09/22 13:29	12/10/22 09:28
860-38969-4	Cell 16-88-S-3-4-220912	Solid	12/09/22 13:43	12/10/22 09:28

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0378	E-Mail: Sachin Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 9
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal LF	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 16-13-5-34-220912	12/9/22	1304	G	Solid			X	X	X	1	
Cell 16-95-5-34-220912	12/9/22	1316	G	Solid			X	X	X	1	
Cell 16-135-5-34-220912	12/9/22	1329	G	Solid			X	X	X	1	
Cell 16-88-5-34-220912	12/9/22	1343	G	Solid			X	X	X	1	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

860-38969 Chain of Custody

Temp: 2.0 IR ID: HOU-344
C/F: +1.2
Corrected Temp: 3.2

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
	12/9/22 1525	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 12/10/22 9:38	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:

Ver: 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-3775	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal LTF	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 16-13-5-34-220912	12/9/22	1304	C	Solid			X	X	X	1	
Cell 16-96-5-34-220912	12/9/22	1316	G	Solid			X	X	X	1	
Cell 16-135-5-34-220912	12/9/22	1329	G	Solid			X	X	X	1	
Cell 16-88-5-34-220912	12/9/22	1343	G	Solid			X	X	X	1	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

860-38969 Chain of Custody

Temp: 2.0 IR ID HOU-344
C/F +1.2
Corrected Temp: 3.2

Possible Hazard Identification
Δ 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, Δ 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: 12/9/22 1525	Company: Arcadis	Received by: FedEx	Date/Time:	Company
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 12/10/22 9:38	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:

Ver 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-38969-1

Login Number: 38969 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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	
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	

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 1/20/2023 2:02:19 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39246-1

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

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

Authorization



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1/20/2023 2:02:19 PM

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: 860-39246-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Job ID: 860-39246-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39246-1

Receipt
The samples were received on 12/13/2022 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

Metals
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.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 9-188-S-3-4-221212 Lab Sample ID: 860-39246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.11	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	251		3.45	1.18	mg/Kg	10		6020B	Total/NA
Cadmium	0.0849	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	2.29	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	3.82		3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1870		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.31	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	21.9		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.143	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.425	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.53		3.45	1.01	mg/Kg	10		6020B	Total/NA
Mercury	0.0110	J	0.0182	0.00814	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 9-186-S-3-4-221212 Lab Sample ID: 860-39246-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.63	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	227		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	3.21	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	3.30	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	2830		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.93		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	29.7		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.130	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.364	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	9.17		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 9-119-S-3-4-221212 Lab Sample ID: 860-39246-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.09	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	280		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.18	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	2.72	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	1660		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.15	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	14.3		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.211	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.453	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	5.48		3.39	0.992	mg/Kg	10		6020B	Total/NA
Mercury	0.0106	J	0.0182	0.00814	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 9-135-S-3-4-221212 Lab Sample ID: 860-39246-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.02	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	132		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.64	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	2.88	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2260		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.65	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	24.6		1.69	0.161	mg/Kg	10		6020B	Total/NA

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: 860-39246-1

Client Sample ID: Cell 9-135-S-3-4-221212 (Continued) — Lab Sample ID: 860-39246-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.161	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.508	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	9.32		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 10-164-S-3-4-221212 — Lab Sample ID: 860-39246-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.72	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	289		3.45	1.18	mg/Kg	10		6020B	Total/NA
Cadmium	0.0901	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	2.38	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	2.89	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1920		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.28	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	23.9		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.221	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.390	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	6.68		3.45	1.01	mg/Kg	10		6020B	Total/NA
Mercury	0.00951	J	0.0196	0.00877	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 10-83-S-3-4-221212 — Lab Sample ID: 860-39246-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.53	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	172		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	2.81	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	2.16	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2150		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.34	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	22.0		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.247	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.339	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	6.36		3.51	1.03	mg/Kg	10		6020B	Total/NA
Mercury	0.0102	J	0.0185	0.00829	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 10-13-S-3-4-221212 — Lab Sample ID: 860-39246-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.45		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	312		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.99	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	2.83	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1670		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.12	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	16.7		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.145	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.588	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.38		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 10-150-S-3-4-221212 — Lab Sample ID: 860-39246-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.16	J	3.39	0.169	mg/Kg	10		6020B	Total/NA

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: 860-39246-1

Client Sample ID: Cell 10-150-S-3-4-221212 (Continued) — Lab Sample ID: 860-39246-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	462		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.32	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	2.31	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2050		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.43	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	20.1		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.183	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.416	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	6.13		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 11-94-S-3-4-221212 — Lab Sample ID: 860-39246-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.16	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	149		3.33	1.14	mg/Kg	10		6020B	Total/NA
Cadmium	0.0879	J	0.833	0.0750	mg/Kg	5		6020B	Total/NA
Chromium	3.27	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	2.52	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	2470		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.45	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	24.5		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.169	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.326	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	6.84		3.33	0.975	mg/Kg	10		6020B	Total/NA
Mercury	0.00895	J	0.0175	0.00785	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 11-135-S-3-4-221212 — Lab Sample ID: 860-39246-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.83	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	150		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.36	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.80	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1100		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.767	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	9.84		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.189	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.272	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	3.53		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 11-91-S-3-4-221212 — Lab Sample ID: 860-39246-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.31	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	163		3.45	1.18	mg/Kg	10		6020B	Total/NA
Beryllium	0.238	J	1.72	0.172	mg/Kg	10		6020B	Total/NA
Cadmium	0.108	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	5.40		3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	3.84		3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	4610		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	2.88		1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	59.5		1.72	0.164	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 11-91-S-3-4-221212 (Continued) — Lab Sample ID: 860-39246-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.329	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.260	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	13.6		3.45	1.01	mg/Kg	10		6020B	Total/NA
Mercury	0.0100	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 11-66-S-3-4-221212 — Lab Sample ID: 860-39246-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.69	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	33.6		3.33	1.14	mg/Kg	10		6020B	Total/NA
Beryllium	0.319	J	1.67	0.167	mg/Kg	10		6020B	Total/NA
Cadmium	0.0808	J	0.833	0.0750	mg/Kg	5		6020B	Total/NA
Chromium	6.10		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	3.80		3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	5640		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	3.89		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	92.4		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.256	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.170	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	15.1		3.33	0.975	mg/Kg	10		6020B	Total/NA
Mercury	0.0101	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 12-83-S-3-4-221212 — Lab Sample ID: 860-39246-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.44	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	224		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.90	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.59	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1500		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.04	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	14.8		1.67	0.158	mg/Kg	10		6020B	Total/NA
Uranium	0.299	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	5.46		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 12-38-S-3-4-221212 — Lab Sample ID: 860-39246-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.82		3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	472		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.18	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.61	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	917		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.592	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	7.18		1.75	0.167	mg/Kg	10		6020B	Total/NA
Uranium	0.456	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	3.16	J	3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 12-15-S-3-4-221212 — Lab Sample ID: 860-39246-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.29	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	123		3.39	1.16	mg/Kg	10		6020B	Total/NA

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: 860-39246-1

Client Sample ID: Cell 12-15-S-3-4-221212 (Continued) Lab Sample ID: 860-39246-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.120	J	0.847	0.0763	mg/Kg	5		6020B	Total/NA
Chromium	2.44	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	2.11	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	1880		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.39	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	30.8		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.147	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.297	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	5.76		3.39	0.992	mg/Kg	10		6020B	Total/NA
Mercury	0.00923	J	0.0192	0.00861	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 12-28-S-3-4-221212 Lab Sample ID: 860-39246-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.76	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	215		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.49	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.56	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1120		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	0.717	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	11.8		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.226	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.297	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	3.84		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 8-171-S-3-4-221212 Lab Sample ID: 860-39246-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.65		3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	251		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.56	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.80	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1270		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.878	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	16.8		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.156	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.396	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	4.31		3.51	1.03	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 9-188-S-3-4-221212

Lab Sample ID: 860-39246-1
Date Collected: 12/12/22 08:15
Matrix: Solid
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/19/22 15:15	01/18/23 21:41	5
Arsenic	**3.11**	**J**	3.45	0.172	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Barium	**251**		3.45	1.18	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/19/22 15:15	12/20/22 17:36	10
Cadmium	**0.0849**	**J**	0.862	0.0776	mg/Kg		12/19/22 15:15	01/18/23 21:41	5
Chromium	**2.29**	**J**	3.45	0.466	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Copper	**3.82**		3.45	0.345	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Iron	**1870**		17.2	1.10	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Lead	**1.31**	**J**	1.72	0.112	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Manganese	**21.9**		1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Selenium	**0.143**	**J**	0.862	0.134	mg/Kg		12/19/22 15:15	01/18/23 21:41	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Uranium	**0.425**	**J**	0.862	0.0862	mg/Kg		12/19/22 15:15	12/19/22 20:33	10
Zinc	**5.53**		3.45	1.01	mg/Kg		12/19/22 15:15	12/19/22 20:33	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0110**	**J**	0.0182	0.00814	mg/Kg		12/29/22 11:15	12/29/22 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**92.9**				%			12/16/22 15:19	1

Client Sample ID: Cell 9-186-S-3-4-221212

Lab Sample ID: 860-39246-2
Date Collected: 12/12/22 08:31
Matrix: Solid
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/19/22 15:15	01/18/23 21:43	5
Arsenic	**2.63**	**J**	3.33	0.167	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Barium	**227**		3.33	1.14	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/19/22 15:15	12/20/22 17:38	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/19/22 15:15	01/18/23 21:43	5
Chromium	**3.21**	**J**	3.33	0.450	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Copper	**3.30**	**J**	3.33	0.333	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Iron	**2830**		16.7	1.07	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Lead	**1.93**		1.67	0.108	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Manganese	**29.7**		1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Selenium	**0.130**	**J**	0.833	0.129	mg/Kg		12/19/22 15:15	01/18/23 21:43	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Uranium	**0.364**	**J**	0.833	0.0833	mg/Kg		12/19/22 15:15	12/19/22 20:36	10
Zinc	**9.17**		3.33	0.975	mg/Kg		12/19/22 15:15	12/19/22 20:36	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		12/29/22 11:15	12/29/22 19:44	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 9-186-S-3-4-221212 Lab Sample ID: 860-39246-2
Date Collected: 12/12/22 08:31 **Matrix: Solid**
Date Received: 12/13/22 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.9				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	96.1				%			12/16/22 15:19	1

Client Sample ID: Cell 9-119-S-3-4-221212 Lab Sample ID: 860-39246-3
Date Collected: 12/12/22 08:43 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/19/22 15:15	01/18/23 21:46	5
Arsenic	3.09	J	3.39	0.169	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Barium	280		3.39	1.16	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/19/22 15:15	12/20/22 17:41	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/19/22 15:15	01/18/23 21:46	5
Chromium	2.18	J	3.39	0.458	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Copper	2.72	J	3.39	0.339	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Iron	1660		16.9	1.08	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Lead	1.15	J	1.69	0.110	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Manganese	14.3		1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Selenium	0.211	J	0.847	0.131	mg/Kg		12/19/22 15:15	01/18/23 21:46	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Uranium	0.453	J	0.847	0.0847	mg/Kg		12/19/22 15:15	12/19/22 20:38	10
Zinc	5.48		3.39	0.992	mg/Kg		12/19/22 15:15	12/19/22 20:38	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0106	J	0.0182	0.00814	mg/Kg		12/29/22 11:15	12/29/22 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	95.8				%			12/16/22 15:19	1

Client Sample ID: Cell 9-135-S-3-4-221212 Lab Sample ID: 860-39246-4
Date Collected: 12/12/22 09:00 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/19/22 15:15	01/18/23 21:48	5
Arsenic	3.02	J	3.39	0.169	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Barium	132		3.39	1.16	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/19/22 15:15	12/20/22 17:48	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/19/22 15:15	01/18/23 21:48	5
Chromium	2.64	J	3.39	0.458	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Copper	2.88	J	3.39	0.339	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Iron	2260		16.9	1.08	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Lead	1.65	J	1.69	0.110	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Manganese	24.6		1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Selenium	0.161	J	0.847	0.131	mg/Kg		12/19/22 15:15	01/18/23 21:48	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 9-135-S-3-4-221212 Lab Sample ID: 860-39246-4

Date Collected: 12/12/22 09:00 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.136	U	1.69	0.136	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Uranium	**0.508**	**J**	0.847	0.0847	mg/Kg		12/19/22 15:15	12/19/22 20:41	10
Zinc	**9.32**		3.39	0.992	mg/Kg		12/19/22 15:15	12/19/22 20:41	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/29/22 11:15	12/29/22 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**94.8**				%			12/16/22 15:19	1

Client Sample ID: Cell 10-164-S-3-4-221212 Lab Sample ID: 860-39246-5

Date Collected: 12/12/22 09:11 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/19/22 15:15	01/18/23 21:50	5
Arsenic	**2.72**	**J**	3.45	0.172	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Barium	**289**		3.45	1.18	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/19/22 15:15	12/20/22 17:51	10
Cadmium	**0.0901**	**J**	0.862	0.0776	mg/Kg		12/19/22 15:15	01/18/23 21:50	5
Chromium	**2.38**	**J**	3.45	0.466	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Copper	**2.89**	**J**	3.45	0.345	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Iron	**1920**		17.2	1.10	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Lead	**1.28**	**J**	1.72	0.112	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Manganese	**23.9**		1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Selenium	**0.221**	**J**	0.862	0.134	mg/Kg		12/19/22 15:15	01/18/23 21:50	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Uranium	**0.390**	**J**	0.862	0.0862	mg/Kg		12/19/22 15:15	12/19/22 20:43	10
Zinc	**6.68**		3.45	1.01	mg/Kg		12/19/22 15:15	12/19/22 20:43	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00951**	**J**	0.0196	0.00877	mg/Kg		12/29/22 11:15	12/29/22 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.0**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**95.1**				%			12/16/22 15:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 10-83-S-3-4-221212

Lab Sample ID: 860-39246-6
Matrix: Solid
Date Collected: 12/12/22 09:24
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/19/22 15:15	01/18/23 21:53	5
Arsenic	**2.53**	**J**	3.51	0.175	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Barium	**172**		3.51	1.20	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/19/22 15:15	01/18/23 21:53	5
Chromium	**2.81**	**J**	3.51	0.474	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Copper	**2.16**	**J**	3.51	0.351	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Iron	**2150**		17.5	1.12	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Lead	**1.34**	**J**	1.75	0.114	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Manganese	**22.0**		1.75	0.167	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Selenium	**0.247**	**J**	0.877	0.136	mg/Kg		12/19/22 15:15	01/18/23 21:53	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Uranium	**0.339**	**J**	0.877	0.0877	mg/Kg		12/19/22 15:15	12/20/22 17:53	10
Zinc	**6.36**		3.51	1.03	mg/Kg		12/19/22 15:15	12/20/22 17:53	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0102**	**J**	0.0185	0.00829	mg/Kg		12/29/22 11:15	12/29/22 19:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.0**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**96.0**				%			12/16/22 15:19	1

Client Sample ID: Cell 10-13-S-3-4-221212

Lab Sample ID: 860-39246-7
Matrix: Solid
Date Collected: 12/12/22 09:39
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/19/22 15:15	01/18/23 21:55	5
Arsenic	**3.45**		3.45	0.172	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Barium	**312**		3.45	1.18	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/19/22 15:15	12/20/22 17:56	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/19/22 15:15	01/18/23 21:55	5
Chromium	**1.99**	**J**	3.45	0.466	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Copper	**2.83**	**J**	3.45	0.345	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Iron	**1670**		17.2	1.10	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Lead	**1.12**	**J**	1.72	0.112	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Manganese	**16.7**		1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Selenium	**0.145**	**J**	0.862	0.134	mg/Kg		12/19/22 15:15	01/18/23 21:55	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Uranium	**0.588**	**J**	0.862	0.0862	mg/Kg		12/19/22 15:15	12/19/22 20:48	10
Zinc	**5.38**		3.45	1.01	mg/Kg		12/19/22 15:15	12/19/22 20:48	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		12/29/22 11:15	12/29/22 19:51	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 10-13-S-3-4-221212

Lab Sample ID: 860-39246-7
Matrix: Solid
Date Collected: 12/12/22 09:39
Date Received: 12/13/22 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	93.2				%			12/16/22 15:19	1

Client Sample ID: Cell 10-150-S-3-4-221212

Lab Sample ID: 860-39246-8
Matrix: Solid
Date Collected: 12/12/22 09:56
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/19/22 15:15	01/18/23 21:58	5
Arsenic	3.16	J	3.39	0.169	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Barium	462		3.39	1.16	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/19/22 15:15	12/20/22 17:58	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/19/22 15:15	01/18/23 21:58	5
Chromium	2.32	J	3.39	0.458	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Copper	2.31	J	3.39	0.339	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Iron	2050		16.9	1.08	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Lead	1.43	J	1.69	0.110	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Manganese	20.1		1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Selenium	0.183	J	0.847	0.131	mg/Kg		12/19/22 15:15	01/18/23 21:58	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Uranium	0.416	J	0.847	0.0847	mg/Kg		12/19/22 15:15	12/19/22 20:51	10
Zinc	6.13		3.39	0.992	mg/Kg		12/19/22 15:15	12/19/22 20:51	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		12/29/22 11:15	12/29/22 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.8				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	95.2				%			12/16/22 15:19	1

Client Sample ID: Cell 11-94-S-3-4-221212

Lab Sample ID: 860-39246-9
Matrix: Solid
Date Collected: 12/12/22 10:25
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/19/22 15:15	01/18/23 22:00	5
Arsenic	2.16	J	3.33	0.167	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Barium	149		3.33	1.14	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/19/22 15:15	12/20/22 18:01	10
Cadmium	0.0879	J	0.833	0.0750	mg/Kg		12/19/22 15:15	01/18/23 22:00	5
Chromium	3.27	J	3.33	0.450	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Copper	2.52	J	3.33	0.333	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Iron	2470		16.7	1.07	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Lead	1.45	J	1.67	0.108	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Manganese	24.5		1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Selenium	0.169	J	0.833	0.129	mg/Kg		12/19/22 15:15	01/18/23 22:00	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 11-94-S-3-4-221212 Lab Sample ID: 860-39246-9

Date Collected: 12/12/22 10:25 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.133	U	1.67	0.133	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Uranium	**0.326**	**J**	0.833	0.0833	mg/Kg		12/19/22 15:15	12/19/22 20:53	10
Zinc	**6.84**		3.33	0.975	mg/Kg		12/19/22 15:15	12/19/22 20:53	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00895**	**J**	0.0175	0.00785	mg/Kg		12/29/22 11:15	12/29/22 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.7**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**93.3**				%			12/16/22 15:19	1

Client Sample ID: Cell 11-135-S-3-4-221212 Lab Sample ID: 860-39246-10

Date Collected: 12/12/22 10:11 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/19/22 15:15	01/18/23 22:03	5
Arsenic	**1.83**	**J**	3.45	0.172	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Barium	**150**		3.45	1.18	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/19/22 15:15	12/20/22 18:04	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/19/22 15:15	01/18/23 22:03	5
Chromium	**1.36**	**J**	3.45	0.466	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Copper	**1.80**	**J**	3.45	0.345	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Iron	**1100**		17.2	1.10	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Lead	**0.767**	**J**	1.72	0.112	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Manganese	**9.84**		1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Selenium	**0.189**	**J**	0.862	0.134	mg/Kg		12/19/22 15:15	01/18/23 22:03	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Uranium	**0.272**	**J**	0.862	0.0862	mg/Kg		12/19/22 15:15	12/19/22 20:56	10
Zinc	**3.53**		3.45	1.01	mg/Kg		12/19/22 15:15	12/19/22 20:56	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/29/22 11:15	12/29/22 19:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.2**				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	**88.8**				%			12/16/22 15:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 11-91-S-3-4-221212

Lab Sample ID: 860-39246-11
Matrix: Solid
Date Collected: 12/12/22 10:38
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/19/22 15:15	01/18/23 22:10	5
Arsenic	2.31	J	3.45	0.172	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Barium	163		3.45	1.18	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Beryllium	0.238	J	1.72	0.172	mg/Kg		12/19/22 15:15	12/20/22 18:06	10
Cadmium	0.108	J	0.862	0.0776	mg/Kg		12/19/22 15:15	01/18/23 22:10	5
Chromium	5.40		3.45	0.466	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Copper	3.84		3.45	0.345	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Iron	4610		17.2	1.10	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Lead	2.88		1.72	0.112	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Manganese	59.5		1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Selenium	0.329	J	0.862	0.134	mg/Kg		12/19/22 15:15	01/18/23 22:10	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Uranium	0.260	J	0.862	0.0862	mg/Kg		12/19/22 15:15	12/19/22 21:04	10
Zinc	13.6		3.45	1.01	mg/Kg		12/19/22 15:15	12/19/22 21:04	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0100	J	0.0189	0.00844	mg/Kg		12/29/22 11:15	12/29/22 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.9				%			12/16/22 15:19	1
Percent Solids (EPA Moisture)	93.2				%			12/16/22 15:19	1

Client Sample ID: Cell 11-66-S-3-4-221212

Lab Sample ID: 860-39246-12
Matrix: Solid
Date Collected: 12/12/22 10:52
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/19/22 15:15	01/18/23 22:12	5
Arsenic	1.69	J	3.33	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Barium	33.6		3.33	1.14	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Beryllium	0.319	J	1.67	0.167	mg/Kg		12/19/22 15:15	12/20/22 18:09	10
Cadmium	0.0808	J	0.833	0.0750	mg/Kg		12/19/22 15:15	01/18/23 22:12	5
Chromium	6.10		3.33	0.450	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Copper	3.80		3.33	0.333	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Iron	5640		16.7	1.07	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Lead	3.89		1.67	0.108	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Manganese	92.4		1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Selenium	0.256	J	0.833	0.129	mg/Kg		12/19/22 15:15	01/18/23 22:12	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Uranium	0.170	J	0.833	0.0833	mg/Kg		12/19/22 15:15	12/19/22 21:06	10
Zinc	15.1		3.33	0.975	mg/Kg		12/19/22 15:15	12/19/22 21:06	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0101	J	0.0192	0.00861	mg/Kg		12/29/22 11:15	12/29/22 20:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 11-66-S-3-4-221212

Lab Sample ID: 860-39246-12
Matrix: Solid
Date Collected: 12/12/22 10:52
Date Received: 12/13/22 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	94.5				%			12/16/22 19:19	1

Client Sample ID: Cell 12-83-S-3-4-221212

Lab Sample ID: 860-39246-13
Matrix: Solid
Date Collected: 12/12/22 11:39
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/19/22 15:15	01/18/23 22:15	5
Arsenic	2.44	J	3.33	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Barium	224		3.33	1.14	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/19/22 15:15	12/20/22 18:11	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/19/22 15:15	01/18/23 22:15	5
Chromium	1.90	J	3.33	0.450	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Copper	1.59	J	3.33	0.333	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Iron	1500		16.7	1.07	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Lead	1.04	J	1.67	0.108	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Manganese	14.8		1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Selenium	0.129	U	0.833	0.129	mg/Kg		12/19/22 15:15	01/18/23 22:15	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Uranium	0.299	J	0.833	0.0833	mg/Kg		12/19/22 15:15	12/19/22 21:09	10
Zinc	5.46		3.33	0.975	mg/Kg		12/19/22 15:15	12/19/22 21:09	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		12/29/22 11:15	12/29/22 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.4				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	92.6				%			12/16/22 19:19	1

Client Sample ID: Cell 12-38-S-3-4-221212

Lab Sample ID: 860-39246-14
Matrix: Solid
Date Collected: 12/12/22 11:54
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/19/22 15:15	01/18/23 22:17	5
Arsenic	3.82		3.51	0.175	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Barium	472		3.51	1.20	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/19/22 15:15	12/20/22 18:19	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/19/22 15:15	01/18/23 22:17	5
Chromium	1.18	J	3.51	0.474	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Copper	1.61	J	3.51	0.351	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Iron	917		17.5	1.12	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Lead	0.592	J	1.75	0.114	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Manganese	7.18		1.75	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Selenium	0.136	U	0.877	0.136	mg/Kg		12/19/22 15:15	01/18/23 22:17	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 12-38-S-3-4-221212 Lab Sample ID: 860-39246-14

Date Collected: 12/12/22 11:54 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.140	U	1.75	0.140	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Uranium	**0.456**	**J**	0.877	0.0877	mg/Kg		12/19/22 15:15	12/19/22 21:11	10
Zinc	**3.16**	**J**	3.51	1.03	mg/Kg		12/19/22 15:15	12/19/22 21:11	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		12/29/22 11:15	12/29/22 20:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.5**				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	**91.5**				%			12/16/22 19:19	1

Client Sample ID: Cell 12-15-S-3-4-221212 Lab Sample ID: 860-39246-15

Date Collected: 12/12/22 12:24 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/19/22 15:15	01/18/23 22:20	5
Arsenic	**2.29**	**J**	3.39	0.169	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Barium	**123**		3.39	1.16	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/19/22 15:15	12/20/22 18:21	10
Cadmium	**0.120**	**J**	0.847	0.0763	mg/Kg		12/19/22 15:15	01/18/23 22:20	5
Chromium	**2.44**	**J**	3.39	0.458	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Copper	**2.11**	**J**	3.39	0.339	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Iron	**1880**		16.9	1.08	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Lead	**1.39**	**J**	1.69	0.110	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Manganese	**30.8**		1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Selenium	**0.147**	**J**	0.847	0.131	mg/Kg		12/19/22 15:15	01/18/23 22:20	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Uranium	**0.297**	**J**	0.847	0.0847	mg/Kg		12/19/22 15:15	12/19/22 21:14	10
Zinc	**5.76**		3.39	0.992	mg/Kg		12/19/22 15:15	12/19/22 21:14	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00923**	**J**	0.0192	0.00861	mg/Kg		12/29/22 11:15	12/29/22 20:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	**93.7**				%			12/16/22 19:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 12-28-S-3-4-221212

Lab Sample ID: 860-39246-16
Matrix: Solid
Date Collected: 12/12/22 12:38
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/19/22 15:15	01/18/23 22:22	5
Arsenic	**2.76**	**J**	3.33	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Barium	**215**		3.33	1.14	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/19/22 15:15	12/20/22 18:24	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/19/22 15:15	01/18/23 22:22	5
Chromium	**1.49**	**J**	3.33	0.450	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Copper	**1.56**	**J**	3.33	0.333	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Iron	**1120**		16.7	1.07	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Lead	**0.717**	**J**	1.67	0.108	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Manganese	**11.8**		1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Selenium	**0.226**	**J**	0.833	0.129	mg/Kg		12/19/22 15:15	01/18/23 22:22	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Uranium	**0.297**	**J**	0.833	0.0833	mg/Kg		12/19/22 15:15	12/19/22 21:16	10
Zinc	**3.84**		3.33	0.975	mg/Kg		12/19/22 15:15	12/19/22 21:16	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		12/29/22 11:15	12/29/22 20:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.2**				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	**93.8**				%			12/16/22 19:19	1

Client Sample ID: Cell 8-171-S-3-4-221212

Lab Sample ID: 860-39246-17
Matrix: Solid
Date Collected: 12/12/22 12:57
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/19/22 15:15	01/18/23 22:25	5
Arsenic	**3.65**		3.51	0.175	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Barium	**251**		3.51	1.20	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/19/22 15:15	12/20/22 18:26	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/19/22 15:15	01/18/23 22:25	5
Chromium	**1.56**	**J**	3.51	0.474	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Copper	**1.80**	**J**	3.51	0.351	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Iron	**1270**		17.5	1.12	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Lead	**0.878**	**J**	1.75	0.114	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Manganese	**16.8**		1.75	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Selenium	**0.156**	**J**	0.877	0.136	mg/Kg		12/19/22 15:15	01/18/23 22:25	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Uranium	**0.396**	**J**	0.877	0.0877	mg/Kg		12/19/22 15:15	12/19/22 21:19	10
Zinc	**4.31**		3.51	1.03	mg/Kg		12/19/22 15:15	12/19/22 21:19	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		12/29/22 11:15	12/29/22 20:16	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 8-171-S-3-4-221212

Date Collected: 12/12/22 12:57
Date Received: 12/13/22 09:50

Lab Sample ID: 860-39246-17

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5				%			12/16/22 19:19	1
Percent Solids (EPA Moisture)	94.5				%			12/16/22 19:19	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-82569/1-A
Matrix: Solid
Analysis Batch: 82749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.205	U	0.385	0.205	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Arsenic	0.0192	U	0.385	0.0192	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Barium	0.132	U	0.385	0.132	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Cadmium	0.0173	U	0.192	0.0173	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Chromium	0.0519	U	0.385	0.0519	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Copper	0.0385	U	0.385	0.0385	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Iron	0.123	U	1.92	0.123	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Lead	0.0125	U	0.192	0.0125	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Manganese	0.0183	U	0.192	0.0183	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Selenium	0.0298	U	0.192	0.0298	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Silver	0.0154	U	0.192	0.0154	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Thallium	0.0183	U	0.192	0.0183	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Uranium	0.00962	U	0.0962	0.00962	mg/Kg		12/19/22 15:15	12/19/22 20:08	1
Zinc	0.113	U	0.385	0.113	mg/Kg		12/19/22 15:15	12/19/22 20:08	1

Lab Sample ID: MB 860-82569/1-A
Matrix: Solid
Analysis Batch: 82839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0192	U	0.192	0.0192	mg/Kg		12/19/22 15:15	12/20/22 17:18	1

Lab Sample ID: LCS 860-82569/2-A
Matrix: Solid
Analysis Batch: 82749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	8.746		mg/Kg		87	80 - 120
Arsenic	10.0	9.585		mg/Kg		96	80 - 120
Barium	10.0	9.388		mg/Kg		94	80 - 120
Cadmium	10.0	9.691		mg/Kg		97	80 - 120
Chromium	10.0	9.550		mg/Kg		95	80 - 120
Copper	10.0	9.453		mg/Kg		95	80 - 120
Iron	50.0	48.65		mg/Kg		97	80 - 120
Lead	10.0	9.566		mg/Kg		96	80 - 120
Manganese	10.0	9.458		mg/Kg		95	80 - 120
Selenium	10.0	9.179		mg/Kg		92	80 - 120
Silver	5.00	5.118		mg/Kg		102	80 - 120
Thallium	10.0	9.557		mg/Kg		96	80 - 120
Uranium	2.50	2.444		mg/Kg		98	80 - 120
Zinc	10.0	9.642		mg/Kg		96	80 - 120

Lab Sample ID: LCS 860-82569/2-A
Matrix: Solid
Analysis Batch: 82839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	10.0	9.314		mg/Kg		93	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-82569/3-A
Matrix: Solid
Analysis Batch: 82749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82569

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			10.0	9.098		mg/Kg		91	80 - 120	4	20
Arsenic			10.0	9.536		mg/Kg		95	80 - 120	1	20
Barium			10.0	9.435		mg/Kg		94	80 - 120	1	20
Cadmium			10.0	9.855		mg/Kg		99	80 - 120	2	20
Chromium			10.0	9.604		mg/Kg		96	80 - 120	1	20
Copper			10.0	9.556		mg/Kg		96	80 - 120	1	20
Iron			50.0	49.51		mg/Kg		99	80 - 120	2	20
Lead			10.0	9.744		mg/Kg		97	80 - 120	2	20
Manganese			10.0	9.491		mg/Kg		95	80 - 120	0	20
Selenium			10.0	9.370		mg/Kg		94	80 - 120	2	20
Silver			5.00	5.188		mg/Kg		104	80 - 120	1	20
Thallium			10.0	9.622		mg/Kg		96	80 - 120	1	20
Uranium			2.50	2.486		mg/Kg		99	80 - 120	2	20
Zinc			10.0	9.573		mg/Kg		96	80 - 120	1	20

Lab Sample ID: LCSD 860-82569/3-A
Matrix: Solid
Analysis Batch: 82839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82569

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium			10.0	9.355		mg/Kg		94	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-83784/10-A
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00877	U	0.0196	0.00877	mg/Kg		12/29/22 11:15	12/29/22 19:30	1

Lab Sample ID: LCS 860-83784/11-A
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.189	0.1817		mg/Kg		96	80 - 120		

Lab Sample ID: LCSD 860-83784/12-A
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.189	0.1824		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-39246-1 MS
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Cell 9-188-S-3-4-221212
Prep Type: Total/NA
Prep Batch: 83784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0110	J	0.207	0.1985		mg/Kg	☼	90	75 - 125

Lab Sample ID: 860-39246-1 MSD
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Cell 9-188-S-3-4-221212
Prep Type: Total/NA
Prep Batch: 83784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0110	J	0.207	0.1892		mg/Kg	☼	86	75 - 125	5	20

Lab Sample ID: 860-39246-11 MS
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Cell 11-91-S-3-4-221212
Prep Type: Total/NA
Prep Batch: 83784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0100	J	0.195	0.1848		mg/Kg	☼	89	75 - 125

Lab Sample ID: 860-39246-11 MSD
Matrix: Solid
Analysis Batch: 83880

Client Sample ID: Cell 11-91-S-3-4-221212
Prep Type: Total/NA
Prep Batch: 83784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0100	J	0.195	0.1823		mg/Kg	☼	88	75 - 125	1	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-82309/1
Matrix: Solid
Analysis Batch: 82309

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	-0.05				%			12/16/22 15:19	1
Percent Solids	100.0				%			12/16/22 15:19	1

Lab Sample ID: MB 860-82356/1
Matrix: Solid
Analysis Batch: 82356

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.05				%			12/16/22 19:19	1
Percent Solids	99.9				%			12/16/22 19:19	1

Lab Sample ID: 860-39246-12 DU
Matrix: Solid
Analysis Batch: 82356

Client Sample ID: Cell 11-66-S-3-4-221212
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.5		5.1		%		7	20
Percent Solids	94.5		94.9		%		0.4	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Metals

Prep Batch: 82569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	3051A	
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	3051A	
MB 860-82569/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-82569/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-82569/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 82749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	6020B	82569
MB 860-82569/1-A	Method Blank	Total/NA	Solid	6020B	82569
LCS 860-82569/2-A	Lab Control Sample	Total/NA	Solid	6020B	82569
LCSD 860-82569/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	82569

Analysis Batch: 82839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	6020B	82569

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Metals (Continued)

Analysis Batch: 82839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	6020B	82569
MB 860-82569/1-A	Method Blank	Total/NA	Solid	6020B	82569
LCS 860-82569/2-A	Lab Control Sample	Total/NA	Solid	6020B	82569
LCSD 860-82569/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	82569

Prep Batch: 83784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	7471A	
MB 860-83784/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-83784/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-83784/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-39246-1 MS	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-1 MSD	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-11 MS	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	
860-39246-11 MSD	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	

Analysis Batch: 83880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	7471A	83784

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Metals (Continued)

Analysis Batch: 83880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	7471A	83784
MB 860-83784/10-A	Method Blank	Total/NA	Solid	7471A	83784
LCS 860-83784/11-A	Lab Control Sample	Total/NA	Solid	7471A	83784
LCSD 860-83784/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	83784
860-39246-1 MS	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-1 MSD	Cell 9-188-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-11 MS	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	83784
860-39246-11 MSD	Cell 11-91-S-3-4-221212	Total/NA	Solid	7471A	83784

Analysis Batch: 86526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	6020B	82569
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	6020B	82569

General Chemistry

Analysis Batch: 82309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-1	Cell 9-188-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-2	Cell 9-186-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-3	Cell 9-119-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-4	Cell 9-135-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-5	Cell 10-164-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-6	Cell 10-83-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-7	Cell 10-13-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-8	Cell 10-150-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-9	Cell 11-94-S-3-4-221212	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

General Chemistry (Continued)

Analysis Batch: 82309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-10	Cell 11-135-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-11	Cell 11-91-S-3-4-221212	Total/NA	Solid	Moisture	
MB 860-82309/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 82356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-12	Cell 11-66-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-13	Cell 12-83-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-14	Cell 12-38-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-15	Cell 12-15-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-16	Cell 12-28-S-3-4-221212	Total/NA	Solid	Moisture	
860-39246-17	Cell 8-171-S-3-4-221212	Total/NA	Solid	Moisture	
MB 860-82356/1	Method Blank	Total/NA	Solid	Moisture	
860-39246-12 DU	Cell 11-66-S-3-4-221212	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Client Sample ID: Cell 9-188-S-3-4-221212

Lab Sample ID: 860-39246-1
Matrix: Solid
Date Collected: 12/12/22 08:15
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:41	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:33	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:36	DP	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:34	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 9-186-S-3-4-221212

Lab Sample ID: 860-39246-2
Matrix: Solid
Date Collected: 12/12/22 08:31
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:43	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:36	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:38	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:44	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 9-119-S-3-4-221212

Lab Sample ID: 860-39246-3
Matrix: Solid
Date Collected: 12/12/22 08:43
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:46	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:38	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:41	DP	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:45	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 9-135-S-3-4-221212
Lab Sample ID: 860-39246-4
Date Collected: 12/12/22 09:00
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:48	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:41	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:48	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:47	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 10-164-S-3-4-221212
Lab Sample ID: 860-39246-5
Date Collected: 12/12/22 09:11
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:50	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:43	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:51	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:48	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 10-83-S-3-4-221212
Lab Sample ID: 860-39246-6
Date Collected: 12/12/22 09:24
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:53	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:53	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:49	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 10-13-S-3-4-221212
Lab Sample ID: 860-39246-7
Date Collected: 12/12/22 09:39
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:55	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 10-13-S-3-4-221212
Lab Sample ID: 860-39246-7
Date Collected: 12/12/22 09:39
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:48	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:56	DP	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:51	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 10-150-S-3-4-221212
Lab Sample ID: 860-39246-8
Date Collected: 12/12/22 09:56
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 21:58	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:51	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 17:58	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:52	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 11-94-S-3-4-221212
Lab Sample ID: 860-39246-9
Date Collected: 12/12/22 10:25
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:00	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:53	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:01	DP	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:54	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 11-135-S-3-4-221212
Lab Sample ID: 860-39246-10
Date Collected: 12/12/22 10:11
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:03	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 11-135-S-3-4-221212 Lab Sample ID: 860-39246-10

Date Collected: 12/12/22 10:11 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 20:56	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:04	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:55	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 11-91-S-3-4-221212 Lab Sample ID: 860-39246-11

Date Collected: 12/12/22 10:38 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:10	SHZ	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:04	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:06	DP	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 19:56	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82309	12/16/22 15:19	ALL	EET HOU

Client Sample ID: Cell 11-66-S-3-4-221212 Lab Sample ID: 860-39246-12

Date Collected: 12/12/22 10:52 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:12	SHZ	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:06	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:09	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:06	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

Client Sample ID: Cell 12-83-S-3-4-221212 Lab Sample ID: 860-39246-13

Date Collected: 12/12/22 11:39 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:15	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 12-83-S-3-4-221212
Lab Sample ID: 860-39246-13
Date Collected: 12/12/22 11:39
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:09	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:11	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:07	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

Client Sample ID: Cell 12-38-S-3-4-221212
Lab Sample ID: 860-39246-14
Date Collected: 12/12/22 11:54
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:17	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:11	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:19	DP	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:09	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

Client Sample ID: Cell 12-15-S-3-4-221212
Lab Sample ID: 860-39246-15
Date Collected: 12/12/22 12:24
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:20	SHZ	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:14	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:21	DP	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:10	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

Client Sample ID: Cell 12-28-S-3-4-221212
Lab Sample ID: 860-39246-16
Date Collected: 12/12/22 12:38
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:22	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 12-28-S-3-4-221212
Lab Sample ID: 860-39246-16

Date Collected: 12/12/22 12:38
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:16	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:24	DP	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:12	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

Client Sample ID: Cell 8-171-S-3-4-221212
Lab Sample ID: 860-39246-17

Date Collected: 12/12/22 12:57
Matrix: Solid
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:25	SHZ	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82749	12/19/22 21:19	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	82569	12/19/22 15:15	PB	EET HOU
Total/NA	Analysis	6020B		10			82839	12/20/22 18:26	DP	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	83784	12/29/22 11:15	AGR	EET HOU
Total/NA	Analysis	7471A		1			83880	12/29/22 20:16	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82356	12/16/22 19:19	ALL	EET HOU

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39246-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-39246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39246-1	Cell 9-188-S-3-4-221212	Solid	12/12/22 08:15	12/13/22 09:50
860-39246-2	Cell 9-186-S-3-4-221212	Solid	12/12/22 08:31	12/13/22 09:50
860-39246-3	Cell 9-119-S-3-4-221212	Solid	12/12/22 08:43	12/13/22 09:50
860-39246-4	Cell 9-135-S-3-4-221212	Solid	12/12/22 09:00	12/13/22 09:50
860-39246-5	Cell 10-164-S-3-4-221212	Solid	12/12/22 09:11	12/13/22 09:50
860-39246-6	Cell 10-83-S-3-4-221212	Solid	12/12/22 09:24	12/13/22 09:50
860-39246-7	Cell 10-13-S-3-4-221212	Solid	12/12/22 09:39	12/13/22 09:50
860-39246-8	Cell 10-150-S-3-4-221212	Solid	12/12/22 09:56	12/13/22 09:50
860-39246-9	Cell 11-94-S-3-4-221212	Solid	12/12/22 10:25	12/13/22 09:50
860-39246-10	Cell 11-135-S-3-4-221212	Solid	12/12/22 10:11	12/13/22 09:50
860-39246-11	Cell 11-91-S-3-4-221212	Solid	12/12/22 10:38	12/13/22 09:50
860-39246-12	Cell 11-66-S-3-4-221212	Solid	12/12/22 10:52	12/13/22 09:50
860-39246-13	Cell 12-83-S-3-4-221212	Solid	12/12/22 11:39	12/13/22 09:50
860-39246-14	Cell 12-38-S-3-4-221212	Solid	12/12/22 11:54	12/13/22 09:50
860-39246-15	Cell 12-15-S-3-4-221212	Solid	12/12/22 12:24	12/13/22 09:50
860-39246-16	Cell 12-28-S-3-4-221212	Solid	12/12/22 12:38	12/13/22 09:50
860-39246-17	Cell 8-171-S-3-4-221212	Solid	12/12/22 12:57	12/13/22 09:50

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jerry Silkenwell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal LF	SSOW#:			

Analysis Requested

860-39246 Chain of Custody

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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U	Zn	7471 - Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N					
Cell 9-188-5-3-4-221212	12/12/22	0815	G	Solid			X	X		X	1	
Cell 9-186-5-3-4-221212	12/12/22	0831	G	Solid			X	X		X	1	
Cell 9-179-5-3-4-221212	12/12/22	0843	G	Solid			X	X		X	1	
Cell 9-135-5-3-4-221212	12/12/22	0900	G	Solid			X	X		X	1	
Cell 10-164-5-3-4-221212	12/12/22	0911	G	Solid			X	X		X	1	
Cell 10-83-5-3-4-221212	12/12/22	0824	G	Solid			X	X		X	1	
Cell 10-13-5-3-4-221212	12/12/22	0939	G	Solid			X	X		X	1	
Cell 10-150-5-3-4-221212	12/12/22	0856	G	Solid			X	X		X	1	
Cell 11-94-5-3-4-221212	12/12/22	1025	G	Solid			X	X		X	1	
Cell 11-135-5-3-4-221212	12/12/22	1041	G	Solid			X	X		X	1	
Cell 11-91-5-3-4-221212	12/12/22	1038	G	Solid			X	X		X	1	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II, III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12/12/22 1443	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by: [signature]	Date/Time: 12/13/22 9:50AM	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: 3.0 IR-TH-HOU-343 C/F +0.3 Corrected Temp: 3.3

Ver 01/16/2019

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jerry Fosgerald	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-238-0376	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S. 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: Jal LF	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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 11-66-5-3-4-22122	12/12/22	1052	G	Solid			X	X	X	1	
Cell 12-83-5-3-4-22122	12/12/22	1139	G	Solid			X	X	X	1	
Cell 12-38-5-3-4-22122	12/12/22	1154	G	Solid			X	X	X	1	
Cell 12-15-5-3-4-22122	12/12/22	1224	G	Solid			X	X	X	1	
Cell 12-28-5-3-4-22122	12/12/22	1238	G	Solid			X	X	X	1	
Cell 8-171-5-3-4-22122	12/12/22	1257	G	Solid			X	X	X	1	
				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
	12/12/22 1400	ARCADIS	FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 12/13/22 9.50 AM	Company FX
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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39246-1

Login Number: 39246 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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	
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	

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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 1/31/2023 10:06:13 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39246-2

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/31/2023 10:06:13 AM

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: 860-39246-2

Table of Contents

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

Metals

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-2

Job ID: 860-39246-2

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39246-2

Comments
No additional comments.

Receipt
The samples were received on 12/13/2022 9:50 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 3.3º C.

Metals
Method 6020B: The Leachate Blank (LB) for preparation batch 860-87764 and 860-87821 and analytical batch 860-88025 contained Barium above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore 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.

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

Released to Imaging: 1/29/2025 3:31:29 PM

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 11-91-S-3-4-221212 Lab Sample ID: 860-39246-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00518	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.558	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 12-83-S-3-4-221212 Lab Sample ID: 860-39246-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00889	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.679	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 12-15-S-3-4-221212 Lab Sample ID: 860-39246-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00591	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.988	b	0.0200	0.00671	mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 11-91-S-3-4-221212 Lab Sample ID: 860-39246-11

Date Collected: 12/12/22 10:38 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00518	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:44	1
Barium	0.558	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:44	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:44	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:44	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:44	1

Client Sample ID: Cell 12-83-S-3-4-221212 Lab Sample ID: 860-39246-13

Date Collected: 12/12/22 11:39 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00889	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:46	1
Barium	0.679	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:46	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:46	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:46	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:46	1

Client Sample ID: Cell 12-15-S-3-4-221212 Lab Sample ID: 860-39246-15

Date Collected: 12/12/22 12:24 **Matrix: Solid**
Date Received: 12/13/22 09:50

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00591	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:48	1
Barium	0.988	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:48	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:48	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:48	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:48	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-2

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-87821/1-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:04	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:04	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:04	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:04	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:04	1

Lab Sample ID: LCS 860-87821/2-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09378		mg/L		94	80 - 120
Barium	0.100	0.08947		mg/L		89	80 - 120
Cadmium	0.100	0.09575		mg/L		96	80 - 120
Chromium	0.100	0.09441		mg/L		94	80 - 120
Selenium	0.100	0.09445		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-87821/3-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09352		mg/L		94	80 - 120	0	20
Barium	0.100	0.09179		mg/L		92	80 - 120	3	20
Cadmium	0.100	0.09547		mg/L		95	80 - 120	0	20
Chromium	0.100	0.09350		mg/L		94	80 - 120	1	20
Selenium	0.100	0.09315		mg/L		93	80 - 120	1	20

Lab Sample ID: LB 860-87757/1-B
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:11	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:11	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:11	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:11	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:11	1

Lab Sample ID: LB 860-87764/1-C
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00145	U	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:41	1
Barium	0.01996	J	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:41	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:41	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:41	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:41	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Metals

Leach Batch: 87757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-87757/1-B	Method Blank	TCLP	Solid	1312	

Leach Batch: 87764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-11	Cell 11-91-S-3-4-221212	TCLP	Solid	1311	
860-39246-13	Cell 12-83-S-3-4-221212	TCLP	Solid	1311	
860-39246-15	Cell 12-15-S-3-4-221212	TCLP	Solid	1311	
LB 860-87764/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 87821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-11	Cell 11-91-S-3-4-221212	TCLP	Solid	3010A	87764
860-39246-13	Cell 12-83-S-3-4-221212	TCLP	Solid	3010A	87764
860-39246-15	Cell 12-15-S-3-4-221212	TCLP	Solid	3010A	87764
LB 860-87757/1-B	Method Blank	TCLP	Solid	3010A	87757
LB 860-87764/1-C	Method Blank	TCLP	Solid	3010A	87764
MB 860-87821/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 88025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39246-11	Cell 11-91-S-3-4-221212	TCLP	Solid	6020B	87821
860-39246-13	Cell 12-83-S-3-4-221212	TCLP	Solid	6020B	87821
860-39246-15	Cell 12-15-S-3-4-221212	TCLP	Solid	6020B	87821
LB 860-87757/1-B	Method Blank	TCLP	Solid	6020B	87821
LB 860-87764/1-C	Method Blank	TCLP	Solid	6020B	87821
MB 860-87821/1-A	Method Blank	Total/NA	Solid	6020B	87821
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	6020B	87821
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	87821

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 11-91-S-3-4-221212 Lab Sample ID: 860-39246-11

Date Collected: 12/12/22 10:38 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 17:44	SHZ	EET HOU

Client Sample ID: Cell 12-83-S-3-4-221212 Lab Sample ID: 860-39246-13

Date Collected: 12/12/22 11:39 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 17:46	SHZ	EET HOU

Client Sample ID: Cell 12-15-S-3-4-221212 Lab Sample ID: 860-39246-15

Date Collected: 12/12/22 12:24 **Matrix: Solid**
Date Received: 12/13/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 17:48	SHZ	EET HOU

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39246-2
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39246-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39246-2
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39246-11	Cell 11-91-S-3-4-221212	Solid	12/12/22 10:38	12/13/22 09:50
860-39246-13	Cell 12-83-S-3-4-221212	Solid	12/12/22 11:39	12/13/22 09:50
860-39246-15	Cell 12-15-S-3-4-221212	Solid	12/12/22 12:24	12/13/22 09:50

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39246-2

Login Number: 39246 **List Source: Eurofins Houston**
List Number: 1
Creator: Palmar, Pedro

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	
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	

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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

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JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39396-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

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Job Notes

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

Authorization



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Authorized for release by
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Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Laboratory Job ID: 860-39396-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

Metals

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.

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control 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
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Job ID: 860-39396-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39396-1

Receipt
The samples were received on 12/14/2022 10:46 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 5.0°C

Metals
Method 6020B: The method blank for preparation batch 860-83312 and analytical batch 860-83586 contained Iron 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.

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

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 860-82522 was outside control limits. Sample non-homogeneity is suspected.

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

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 8-123-S-3-4-221213 Lab Sample ID: 860-39396-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.43		3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	228		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.43	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.96	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	1910	b	16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.38	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	18.8		1.69	0.161	mg/Kg	10		6020B	Total/NA
Uranium	0.452	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	6.33		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 8-162-S-3-4-221213 Lab Sample ID: 860-39396-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.87	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	147		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.69	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.37	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1520	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.01	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	12.9		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.163	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.404	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	5.16		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 8-91-S-3-4-221213 Lab Sample ID: 860-39396-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.37	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	182		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	7.46		3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.45	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	1890	b	16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.22	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	19.2		1.69	0.161	mg/Kg	10		6020B	Total/NA
Uranium	0.267	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	6.08		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 7-23-S-3-4-221213 Lab Sample ID: 860-39396-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.85	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	263		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.12	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	0.852	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1050	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.679	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	10.4		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.237	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.360	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	5.03		3.51	1.03	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 7-154-S-3-4-221213 Lab Sample ID: 860-39396-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.60	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	257		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.64	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.10	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1270		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.868	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	13.7		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.139	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.346	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	4.32		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 7-35-S-3-4-221213 Lab Sample ID: 860-39396-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.25	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	95.8		3.51	1.20	mg/Kg	10		6020B	Total/NA
Beryllium	0.309	J	1.75	0.175	mg/Kg	10		6020B	Total/NA
Cadmium	0.110	J	0.877	0.0789	mg/Kg	5		6020B	Total/NA
Chromium	6.47		3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	4.04		3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	5840		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	3.89		1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	66.8		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.289	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.245	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	17.7		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 7-59-S-3-4-221213 Lab Sample ID: 860-39396-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.98	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	276		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	0.869	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.05	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	745		17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	0.494	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	9.48		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.181	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.317	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	2.75	J	3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 6-25-S-3-4-221213 Lab Sample ID: 860-39396-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.09	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	80.5		3.33	1.14	mg/Kg	10		6020B	Total/NA
Cadmium	0.0821	J	0.833	0.0750	mg/Kg	5		6020B	Total/NA
Chromium	1.84	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.15	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1620		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.12	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	22.9		1.67	0.158	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 6-25-S-3-4-221213 (Continued) — Lab Sample ID: 860-39396-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.205	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.233	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	4.94		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 6-111-S-3-4-221213 — Lab Sample ID: 860-39396-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.94	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	137		3.33	1.14	mg/Kg	10		6020B	Total/NA
Beryllium	0.174	J	1.67	0.167	mg/Kg	10		6020B	Total/NA
Chromium	4.92		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	2.43	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	3790		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	2.02		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	39.6		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.218	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.290	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	9.91		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 6-203-S-3-4-221213 — Lab Sample ID: 860-39396-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.75	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	253		3.45	1.18	mg/Kg	10		6020B	Total/NA
Cadmium	0.0866	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	2.49	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.34	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2100		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.28	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	21.4		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.163	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.313	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	7.45		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 6-207-S-3-4-221213 — Lab Sample ID: 860-39396-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.09	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	103		3.39	1.16	mg/Kg	10		6020B	Total/NA
Beryllium	0.415	J	1.69	0.169	mg/Kg	10		6020B	Total/NA
Cadmium	0.0903	J	0.847	0.0763	mg/Kg	5		6020B	Total/NA
Chromium	3.24	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.79	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2210		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.68	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	23.7		1.69	0.161	mg/Kg	10		6020B	Total/NA
Thallium	0.245	J	1.69	0.161	mg/Kg	10		6020B	Total/NA
Uranium	0.314	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	34.0		3.39	0.992	mg/Kg	10		6020B	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: 860-39396-1

Client Sample ID: Cell 5-14-S-3-4-221213 Lab Sample ID: 860-39396-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.50		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	258		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	2.10	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.35	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1760		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.06	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	16.1		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.238	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.495	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	4.83		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 5-167-S-3-4-221213 Lab Sample ID: 860-39396-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.70	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	449		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.49	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.14	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2160		16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.28	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	18.1		1.69	0.161	mg/Kg	10		6020B	Total/NA
Uranium	0.386	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	6.25		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 5-187-S-3-4-221213 Lab Sample ID: 860-39396-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.50		3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	370		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	2.19	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.49	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1940		16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.33	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	17.0		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.180	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.486	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	6.42		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 5-121-S-3-4-221213 Lab Sample ID: 860-39396-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.98		3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	600		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	2.68	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.42	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2230		17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.38	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	19.2		1.72	0.164	mg/Kg	10		6020B	Total/NA
Uranium	0.641	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	6.50		3.45	1.01	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 8-123-S-3-4-221213

Lab Sample ID: 860-39396-1
Date Collected: 12/13/22 08:35
Matrix: Solid
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/26/22 15:39	01/18/23 22:27	5
Arsenic	**3.43**		3.39	0.169	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Barium	**228**		3.39	1.16	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/26/22 15:39	01/18/23 22:27	5
Chromium	**2.43**	**J**	3.39	0.458	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Copper	**1.96**	**J**	3.39	0.339	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Iron	**1910**	**b**	16.9	1.08	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Lead	**1.38**	**J**	1.69	0.110	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Manganese	**18.8**		1.69	0.161	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Selenium	0.131	U	0.847	0.131	mg/Kg		12/26/22 15:39	01/18/23 22:27	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Uranium	**0.452**	**J**	0.847	0.0847	mg/Kg		12/26/22 15:39	12/27/22 21:58	10
Zinc	**6.33**		3.39	0.992	mg/Kg		12/26/22 15:39	12/27/22 21:58	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		01/03/23 10:32	01/03/23 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.2**				%			12/18/22 18:28	1
Percent Solids (EPA Moisture)	**93.8**				%			12/18/22 18:28	1

Client Sample ID: Cell 8-162-S-3-4-221213

Lab Sample ID: 860-39396-2
Date Collected: 12/13/22 08:50
Matrix: Solid
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:39	01/18/23 22:30	5
Arsenic	**2.87**	**J**	3.51	0.175	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Barium	**147**		3.51	1.20	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/26/22 15:39	01/18/23 22:30	5
Chromium	**1.69**	**J**	3.51	0.474	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Copper	**1.37**	**J**	3.51	0.351	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Iron	**1520**	**b**	17.5	1.12	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Lead	**1.01**	**J**	1.75	0.114	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Manganese	**12.9**		1.75	0.167	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Selenium	**0.163**	**J**	0.877	0.136	mg/Kg		12/26/22 15:39	01/18/23 22:30	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Uranium	**0.404**	**J**	0.877	0.0877	mg/Kg		12/26/22 15:39	12/27/22 22:01	10
Zinc	**5.16**		3.51	1.03	mg/Kg		12/26/22 15:39	12/27/22 22:01	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		01/03/23 10:32	01/03/23 15:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 8-162-S-3-4-221213

Lab Sample ID: 860-39396-2
Matrix: Solid
Date Collected: 12/13/22 08:50
Date Received: 12/14/22 10:46

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.8				%			12/18/22 18:28	1
Percent Solids (EPA Moisture)	89.2				%			12/18/22 18:28	1

Client Sample ID: Cell 8-91-S-3-4-221213

Lab Sample ID: 860-39396-3
Matrix: Solid
Date Collected: 12/13/22 09:11
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/26/22 15:39	01/18/23 22:32	5
Arsenic	2.37	J	3.39	0.169	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Barium	182		3.39	1.16	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/26/22 15:39	01/18/23 22:32	5
Chromium	7.46		3.39	0.458	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Copper	1.45	J	3.39	0.339	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Iron	1890	b	16.9	1.08	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Lead	1.22	J	1.69	0.110	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Manganese	19.2		1.69	0.161	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Selenium	0.131	U	0.847	0.131	mg/Kg		12/26/22 15:39	01/18/23 22:32	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Uranium	0.267	J	0.847	0.0847	mg/Kg		12/26/22 15:39	12/27/22 22:04	10
Zinc	6.08		3.39	0.992	mg/Kg		12/26/22 15:39	12/27/22 22:04	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		01/03/23 10:32	01/03/23 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.5				%			12/18/22 18:28	1
Percent Solids (EPA Moisture)	94.5				%			12/18/22 18:28	1

Client Sample ID: Cell 7-23-S-3-4-221213

Lab Sample ID: 860-39396-4
Matrix: Solid
Date Collected: 12/13/22 09:30
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:39	01/18/23 22:39	5
Arsenic	2.85	J	3.51	0.175	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Barium	263		3.51	1.20	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/26/22 15:39	01/18/23 22:39	5
Chromium	1.12	J	3.51	0.474	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Copper	0.852	J	3.51	0.351	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Iron	1050	b	17.5	1.12	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Lead	0.679	J	1.75	0.114	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Manganese	10.4		1.75	0.167	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Selenium	0.237	J	0.877	0.136	mg/Kg		12/26/22 15:39	01/18/23 22:39	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 7-23-S-3-4-221213 Lab Sample ID: 860-39396-4

Date Collected: 12/13/22 09:30 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Uranium	**0.360**	**J**	0.877	0.0877	mg/Kg		12/26/22 15:39	12/27/22 22:07	10
Zinc	**5.03**		3.51	1.03	mg/Kg		12/26/22 15:39	12/27/22 22:07	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		01/03/23 10:32	01/03/23 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.0**				%			12/18/22 18:28	1
Percent Solids (EPA Moisture)	**95.0**				%			12/18/22 18:28	1

Client Sample ID: Cell 7-154-S-3-4-221213 Lab Sample ID: 860-39396-5

Date Collected: 12/13/22 09:54 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/28/22 09:48	01/18/23 22:42	5
Arsenic	**2.60**	**J**	3.51	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Barium	**257**		3.51	1.20	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/28/22 09:48	01/18/23 22:42	5
Chromium	**1.64**	**J**	3.51	0.474	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Copper	**1.10**	**J**	3.51	0.351	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Iron	**1270**		17.5	1.12	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Lead	**0.868**	**J**	1.75	0.114	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Manganese	**13.7**		1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Selenium	**0.139**	**J**	0.877	0.136	mg/Kg		12/28/22 09:48	01/18/23 22:42	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Uranium	**0.346**	**J**	0.877	0.0877	mg/Kg		12/28/22 09:48	12/28/22 14:34	10
Zinc	**4.32**		3.51	1.03	mg/Kg		12/28/22 09:48	12/28/22 14:34	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		01/03/23 10:32	01/03/23 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**98.3**				%			12/19/22 11:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 7-35-S-3-4-221213

Lab Sample ID: 860-39396-6
Matrix: Solid
Date Collected: 12/13/22 10:03
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/28/22 09:48	01/18/23 22:44	5
Arsenic	**2.25**	**J**	3.51	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Barium	**95.8**		3.51	1.20	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Beryllium	**0.309**	**J**	1.75	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Cadmium	**0.110**	**J**	0.877	0.0789	mg/Kg		12/28/22 09:48	01/18/23 22:44	5
Chromium	**6.47**		3.51	0.474	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Copper	**4.04**		3.51	0.351	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Iron	**5840**		17.5	1.12	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Lead	**3.89**		1.75	0.114	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Manganese	**66.8**		1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Selenium	**0.289**	**J**	0.877	0.136	mg/Kg		12/28/22 09:48	01/18/23 22:44	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Uranium	**0.245**	**J**	0.877	0.0877	mg/Kg		12/28/22 09:48	12/28/22 14:37	10
Zinc	**17.7**		3.51	1.03	mg/Kg		12/28/22 09:48	12/28/22 14:37	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		01/03/23 10:32	01/03/23 15:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.8**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**98.2**				%			12/19/22 11:25	1

Client Sample ID: Cell 7-59-S-3-4-221213

Lab Sample ID: 860-39396-7
Matrix: Solid
Date Collected: 12/13/22 10:19
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/28/22 09:48	01/18/23 22:47	5
Arsenic	**1.98**	**J**	3.51	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Barium	**276**		3.51	1.20	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/28/22 09:48	01/18/23 22:47	5
Chromium	**0.869**	**J**	3.51	0.474	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Copper	**1.05**	**J**	3.51	0.351	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Iron	**745**		17.5	1.12	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Lead	**0.494**	**J**	1.75	0.114	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Manganese	**9.48**		1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Selenium	**0.181**	**J**	0.877	0.136	mg/Kg		12/28/22 09:48	01/18/23 22:47	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Uranium	**0.317**	**J**	0.877	0.0877	mg/Kg		12/28/22 09:48	12/28/22 14:40	10
Zinc	**2.75**	**J**	3.51	1.03	mg/Kg		12/28/22 09:48	12/28/22 14:40	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/03/23 10:32	01/03/23 15:33	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 7-59-S-3-4-221213 Lab Sample ID: 860-39396-7

Date Collected: 12/13/22 10:19 **Matrix: Solid**
Date Received: 12/14/22 10:46

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.6				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	98.4				%			12/19/22 11:25	1

Client Sample ID: Cell 6-25-S-3-4-221213 Lab Sample ID: 860-39396-8

Date Collected: 12/13/22 10:40 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/28/22 09:48	01/18/23 22:49	5
Arsenic	1.09	J	3.33	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Barium	80.5		3.33	1.14	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Cadmium	0.0821	J	0.833	0.0750	mg/Kg		12/28/22 09:48	01/18/23 22:49	5
Chromium	1.84	J	3.33	0.450	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Copper	1.15	J	3.33	0.333	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Iron	1620		16.7	1.07	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Lead	1.12	J	1.67	0.108	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Manganese	22.9		1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Selenium	0.205	J	0.833	0.129	mg/Kg		12/28/22 09:48	01/18/23 22:49	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Uranium	0.233	J	0.833	0.0833	mg/Kg		12/28/22 09:48	12/28/22 14:43	10
Zinc	4.94		3.33	0.975	mg/Kg		12/28/22 09:48	12/28/22 14:43	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00746	U	0.0167	0.00746	mg/Kg		01/03/23 10:32	01/03/23 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.1				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	96.9				%			12/19/22 11:25	1

Client Sample ID: Cell 6-111-S-3-4-221213 Lab Sample ID: 860-39396-9

Date Collected: 12/13/22 10:56 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/28/22 09:48	01/18/23 22:52	5
Arsenic	1.94	J	3.33	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Barium	137		3.33	1.14	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Beryllium	0.174	J	1.67	0.167	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/28/22 09:48	01/18/23 22:52	5
Chromium	4.92		3.33	0.450	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Copper	2.43	J	3.33	0.333	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Iron	3790		16.7	1.07	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Lead	2.02		1.67	0.108	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Manganese	39.6		1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Selenium	0.218	J	0.833	0.129	mg/Kg		12/28/22 09:48	01/18/23 22:52	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 6-111-S-3-4-221213

Lab Sample ID: 860-39396-9
Matrix: Solid
Date Collected: 12/13/22 10:56
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.133	U	1.67	0.133	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Uranium	**0.290**	**J**	0.833	0.0833	mg/Kg		12/28/22 09:48	12/28/22 14:46	10
Zinc	**9.91**		3.33	0.975	mg/Kg		12/28/22 09:48	12/28/22 14:46	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		01/03/23 10:32	01/03/23 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**98.3**				%			12/19/22 11:25	1

Client Sample ID: Cell 6-203-S-3-4-221213

Lab Sample ID: 860-39396-10
Matrix: Solid
Date Collected: 12/13/22 11:12
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/28/22 09:48	01/18/23 22:54	5
Arsenic	**1.75**	**J**	3.45	0.172	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Barium	**253**		3.45	1.18	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Cadmium	**0.0866**	**J**	0.862	0.0776	mg/Kg		12/28/22 09:48	01/18/23 22:54	5
Chromium	**2.49**	**J**	3.45	0.466	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Copper	**1.34**	**J**	3.45	0.345	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Iron	**2100**		17.2	1.10	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Lead	**1.28**	**J**	1.72	0.112	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Manganese	**21.4**		1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Selenium	**0.163**	**J**	0.862	0.134	mg/Kg		12/28/22 09:48	01/18/23 22:54	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Uranium	**0.313**	**J**	0.862	0.0862	mg/Kg		12/28/22 09:48	12/28/22 14:49	10
Zinc	**7.45**		3.45	1.01	mg/Kg		12/28/22 09:48	12/28/22 14:49	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		01/03/23 10:32	01/03/23 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.3**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**97.7**				%			12/19/22 11:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Client Sample ID: Cell 6-207-S-3-4-221213

Lab Sample ID: 860-39396-11
Matrix: Solid
Date Collected: 12/13/22 11:28
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/28/22 09:48	01/18/23 22:56	5
Arsenic	**2.09**	**J**	3.39	0.169	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Barium	**103**		3.39	1.16	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Beryllium	**0.415**	**J**	1.69	0.169	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Cadmium	**0.0903**	**J**	0.847	0.0763	mg/Kg		12/28/22 09:48	01/18/23 22:56	5
Chromium	**3.24**	**J**	3.39	0.458	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Copper	**1.79**	**J**	3.39	0.339	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Iron	**2210**		16.9	1.08	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Lead	**1.68**	**J**	1.69	0.110	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Manganese	**23.7**		1.69	0.161	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Selenium	0.131	U	0.847	0.131	mg/Kg		12/28/22 09:48	01/18/23 22:56	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Thallium	**0.245**	**J**	1.69	0.161	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Uranium	**0.314**	**J**	0.847	0.0847	mg/Kg		12/28/22 09:48	12/28/22 14:52	10
Zinc	**34.0**		3.39	0.992	mg/Kg		12/28/22 09:48	12/28/22 14:52	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		01/03/23 10:32	01/03/23 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**98.1**				%			12/19/22 11:25	1

Client Sample ID: Cell 5-14-S-3-4-221213

Lab Sample ID: 860-39396-12
Matrix: Solid
Date Collected: 12/13/22 11:49
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/28/22 09:48	01/18/23 22:59	5
Arsenic	**3.50**		3.45	0.172	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Barium	**258**		3.45	1.18	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/28/22 09:48	01/18/23 22:59	5
Chromium	**2.10**	**J**	3.45	0.466	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Copper	**1.35**	**J**	3.45	0.345	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Iron	**1760**		17.2	1.10	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Lead	**1.06**	**J**	1.72	0.112	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Manganese	**16.1**		1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Selenium	**0.238**	**J**	0.862	0.134	mg/Kg		12/28/22 09:48	01/18/23 22:59	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Uranium	**0.495**	**J**	0.862	0.0862	mg/Kg		12/28/22 09:48	12/28/22 14:55	10
Zinc	**4.83**		3.45	1.01	mg/Kg		12/28/22 09:48	12/28/22 14:55	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		01/03/23 10:32	01/03/23 15:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 5-14-S-3-4-221213 Lab Sample ID: 860-39396-12

Date Collected: 12/13/22 11:49 **Matrix: Solid**
Date Received: 12/14/22 10:46

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.3				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	97.7				%			12/19/22 11:25	1

Client Sample ID: Cell 5-167-S-3-4-221213 Lab Sample ID: 860-39396-13

Date Collected: 12/13/22 12:10 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/28/22 09:48	01/18/23 23:01	5
Arsenic	2.70	J	3.39	0.169	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Barium	449		3.39	1.16	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/28/22 09:48	01/18/23 23:01	5
Chromium	2.49	J	3.39	0.458	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Copper	1.14	J	3.39	0.339	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Iron	2160		16.9	1.08	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Lead	1.28	J	1.69	0.110	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Manganese	18.1		1.69	0.161	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Selenium	0.131	U	0.847	0.131	mg/Kg		12/28/22 09:48	01/18/23 23:01	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Uranium	0.386	J	0.847	0.0847	mg/Kg		12/28/22 09:48	12/28/22 15:03	10
Zinc	6.25		3.39	0.992	mg/Kg		12/28/22 09:48	12/28/22 15:03	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/03/23 10:32	01/03/23 15:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.4				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	97.6				%			12/19/22 11:25	1

Client Sample ID: Cell 5-187-S-3-4-221213 Lab Sample ID: 860-39396-14

Date Collected: 12/13/22 12:25 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/28/22 09:48	01/18/23 23:09	5
Arsenic	3.50		3.33	0.167	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Barium	370		3.33	1.14	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/28/22 09:48	01/18/23 23:09	5
Chromium	2.19	J	3.33	0.450	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Copper	1.49	J	3.33	0.333	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Iron	1940		16.7	1.07	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Lead	1.33	J	1.67	0.108	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Manganese	17.0		1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Selenium	0.180	J	0.833	0.129	mg/Kg		12/28/22 09:48	01/18/23 23:09	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 5-187-S-3-4-221213 Lab Sample ID: 860-39396-14

Date Collected: 12/13/22 12:25 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.133	U	1.67	0.133	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Uranium	**0.486**	**J**	0.833	0.0833	mg/Kg		12/28/22 09:48	12/28/22 15:06	10
Zinc	**6.42**		3.33	0.975	mg/Kg		12/28/22 09:48	12/28/22 15:06	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/03/23 10:32	01/03/23 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**99.0**				%			12/19/22 11:25	1

Client Sample ID: Cell 5-121-S-3-4-221213 Lab Sample ID: 860-39396-15

Date Collected: 12/13/22 12:41 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/28/22 09:48	01/18/23 23:11	5
Arsenic	**3.98**		3.45	0.172	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Barium	**600**		3.45	1.18	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/28/22 09:48	01/18/23 23:11	5
Chromium	**2.68**	**J**	3.45	0.466	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Copper	**1.42**	**J**	3.45	0.345	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Iron	**2230**		17.2	1.10	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Lead	**1.38**	**J**	1.72	0.112	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Manganese	**19.2**		1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Selenium	0.134	U	0.862	0.134	mg/Kg		12/28/22 09:48	01/18/23 23:11	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Uranium	**0.641**	**J**	0.862	0.0862	mg/Kg		12/28/22 09:48	12/28/22 15:09	10
Zinc	**6.50**		3.45	1.01	mg/Kg		12/28/22 09:48	12/28/22 15:09	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		01/03/23 10:32	01/03/23 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.1**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**97.9**				%			12/19/22 11:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-83312/1-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.213	U	0.400	0.213	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Arsenic	0.0200	U	0.400	0.0200	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Barium	0.137	U	0.400	0.137	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Beryllium	0.0200	U	0.200	0.0200	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Cadmium	0.0180	U	0.200	0.0180	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Chromium	0.0540	U	0.400	0.0540	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Copper	0.0400	U	0.400	0.0400	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Iron	0.5189	J	2.00	0.128	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Lead	0.0130	U	0.200	0.0130	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Manganese	0.0190	U	0.200	0.0190	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Selenium	0.0310	U	0.200	0.0310	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Silver	0.0160	U	0.200	0.0160	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Thallium	0.0190	U	0.200	0.0190	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Uranium	0.0100	U	0.100	0.0100	mg/Kg		12/26/22 15:39	12/27/22 20:53	1
Zinc	0.117	U	0.400	0.117	mg/Kg		12/26/22 15:39	12/27/22 20:53	1

Lab Sample ID: LCS 860-83312/2-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	8.388		mg/Kg		84	80 - 120
Arsenic	10.0	8.991		mg/Kg		90	80 - 120
Barium	10.0	9.224		mg/Kg		92	80 - 120
Beryllium	10.0	8.613		mg/Kg		86	80 - 120
Cadmium	10.0	8.716		mg/Kg		87	80 - 120
Chromium	10.0	8.853		mg/Kg		89	80 - 120
Copper	10.0	8.696		mg/Kg		87	80 - 120
Iron	50.0	42.62		mg/Kg		85	80 - 120
Lead	10.0	8.812		mg/Kg		88	80 - 120
Manganese	10.0	9.061		mg/Kg		91	80 - 120
Selenium	10.0	9.063		mg/Kg		91	80 - 120
Silver	5.00	4.128		mg/Kg		83	80 - 120
Thallium	10.0	8.857		mg/Kg		89	80 - 120
Uranium	2.50	2.238		mg/Kg		90	80 - 120
Zinc	10.0	8.920		mg/Kg		89	80 - 120

Lab Sample ID: LCSD 860-83312/3-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	10.0	8.686		mg/Kg		87	80 - 120	3	20
Arsenic	10.0	8.934		mg/Kg		89	80 - 120	1	20
Barium	10.0	9.366		mg/Kg		94	80 - 120	2	20
Beryllium	10.0	8.500		mg/Kg		85	80 - 120	1	20
Cadmium	10.0	8.803		mg/Kg		88	80 - 120	1	20
Chromium	10.0	8.774		mg/Kg		88	80 - 120	1	20
Copper	10.0	8.705		mg/Kg		87	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-83312/3-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83312

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			50.0	43.12		mg/Kg		86	80 - 120	1	20
Lead			10.0	8.995		mg/Kg		90	80 - 120	2	20
Manganese			10.0	9.086		mg/Kg		91	80 - 120	0	20
Selenium			10.0	9.021		mg/Kg		90	80 - 120	0	20
Silver			5.00	4.174		mg/Kg		83	80 - 120	1	20
Thallium			10.0	9.057		mg/Kg		91	80 - 120	2	20
Uranium			2.50	2.276		mg/Kg		91	80 - 120	2	20
Zinc			10.0	8.967		mg/Kg		90	80 - 120	1	20

Lab Sample ID: MB 860-83564/1-A
Matrix: Solid
Analysis Batch: 83617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	U	0.392	0.209	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Arsenic	0.0196	U	0.392	0.0196	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Barium	0.134	U	0.392	0.134	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Beryllium	0.0196	U	0.196	0.0196	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Cadmium	0.0176	U	0.196	0.0176	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Chromium	0.0529	U	0.392	0.0529	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Copper	0.0392	U	0.392	0.0392	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Iron	0.125	U	1.96	0.125	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Lead	0.0127	U	0.196	0.0127	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Manganese	0.0186	U	0.196	0.0186	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Selenium	0.0304	U	0.196	0.0304	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Silver	0.0157	U	0.196	0.0157	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Thallium	0.0186	U	0.196	0.0186	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Uranium	0.00980	U	0.0980	0.00980	mg/Kg		12/28/22 09:48	12/28/22 14:05	1
Zinc	0.115	U	0.392	0.115	mg/Kg		12/28/22 09:48	12/28/22 14:05	1

Lab Sample ID: LCS 860-83564/2-A
Matrix: Solid
Analysis Batch: 83617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony			10.0	9.502		mg/Kg		95	80 - 120
Arsenic			10.0	9.652		mg/Kg		97	80 - 120
Barium			10.0	9.741		mg/Kg		97	80 - 120
Beryllium			10.0	9.487		mg/Kg		95	80 - 120
Cadmium			10.0	9.779		mg/Kg		98	80 - 120
Chromium			10.0	9.647		mg/Kg		96	80 - 120
Copper			10.0	9.618		mg/Kg		96	80 - 120
Iron			50.0	47.70		mg/Kg		95	80 - 120
Lead			10.0	9.575		mg/Kg		96	80 - 120
Manganese			10.0	9.807		mg/Kg		98	80 - 120
Selenium			10.0	9.652		mg/Kg		97	80 - 120
Silver			5.00	4.895		mg/Kg		98	80 - 120
Thallium			10.0	9.608		mg/Kg		96	80 - 120
Uranium			2.50	2.440		mg/Kg		98	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-83564/2-A
Matrix: Solid
Analysis Batch: 83617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			10.0	9.878		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 860-83564/3-A
Matrix: Solid
Analysis Batch: 83617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83564

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			10.0	9.614		mg/Kg		96	80 - 120	1	20
Arsenic			10.0	9.592		mg/Kg		96	80 - 120	1	20
Barium			10.0	9.643		mg/Kg		96	80 - 120	1	20
Beryllium			10.0	9.467		mg/Kg		95	80 - 120	0	20
Cadmium			10.0	9.587		mg/Kg		96	80 - 120	2	20
Chromium			10.0	9.585		mg/Kg		96	80 - 120	1	20
Copper			10.0	9.506		mg/Kg		95	80 - 120	1	20
Iron			50.0	47.19		mg/Kg		94	80 - 120	1	20
Lead			10.0	9.480		mg/Kg		95	80 - 120	1	20
Manganese			10.0	9.634		mg/Kg		96	80 - 120	2	20
Selenium			10.0	9.594		mg/Kg		96	80 - 120	1	20
Silver			5.00	4.851		mg/Kg		97	80 - 120	1	20
Thallium			10.0	9.526		mg/Kg		95	80 - 120	1	20
Uranium			2.50	2.414		mg/Kg		97	80 - 120	1	20
Zinc			10.0	9.582		mg/Kg		96	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-84124/10-A
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/03/23 10:32	01/03/23 15:13	1

Lab Sample ID: LCS 860-84124/11-A
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.189	0.1827		mg/Kg		97	80 - 120		

Lab Sample ID: LCSD 860-84124/12-A
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84124

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.189	0.1827		mg/Kg		97	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-39396-1 MS
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Cell 8-123-S-3-4-221213
Prep Type: Total/NA
Prep Batch: 84124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00877	U	0.205	0.1961		mg/Kg	☼	96	75 - 125

Lab Sample ID: 860-39396-1 MSD
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Cell 8-123-S-3-4-221213
Prep Type: Total/NA
Prep Batch: 84124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00877	U	0.205	0.1976		mg/Kg	☼	96	75 - 125	1	20

Lab Sample ID: 860-39396-11 MS
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Cell 6-207-S-3-4-221213
Prep Type: Total/NA
Prep Batch: 84124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00844	U	0.189	0.1846		mg/Kg	☼	98	75 - 125

Lab Sample ID: 860-39396-11 MSD
Matrix: Solid
Analysis Batch: 84208

Client Sample ID: Cell 6-207-S-3-4-221213
Prep Type: Total/NA
Prep Batch: 84124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00844	U	0.189	0.2043		mg/Kg	☼	108	75 - 125	10	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-82481/1
Matrix: Solid
Analysis Batch: 82481

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				%			12/18/22 18:28	1
Percent Solids	100.2				%			12/18/22 18:28	1

Lab Sample ID: MB 860-82522/1
Matrix: Solid
Analysis Batch: 82522

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.04				%			12/19/22 11:25	1
Percent Solids	100				%			12/19/22 11:25	1

Lab Sample ID: 860-39396-5 DU
Matrix: Solid
Analysis Batch: 82522

Client Sample ID: Cell 7-154-S-3-4-221213
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.7		2.8	F	%		47	20
Percent Solids	98.3		97.2		%		1	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Metals

Prep Batch: 83312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	3051A	
MB 860-83312/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-83312/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-83312/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Prep Batch: 83564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	3051A	
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	3051A	
MB 860-83564/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-83564/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-83564/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 83586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	6020B	83312
MB 860-83312/1-A	Method Blank	Total/NA	Solid	6020B	83312
LCS 860-83312/2-A	Lab Control Sample	Total/NA	Solid	6020B	83312
LCSD 860-83312/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	83312

Analysis Batch: 83617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	6020B	83564
MB 860-83564/1-A	Method Blank	Total/NA	Solid	6020B	83564
LCS 860-83564/2-A	Lab Control Sample	Total/NA	Solid	6020B	83564
LCSD 860-83564/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	83564

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Metals

Prep Batch: 84124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	7471A	
MB 860-84124/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-84124/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-84124/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-39396-1 MS	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-1 MSD	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-11 MS	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	
860-39396-11 MSD	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	

Analysis Batch: 84208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	7471A	84124
MB 860-84124/10-A	Method Blank	Total/NA	Solid	7471A	84124
LCS 860-84124/11-A	Lab Control Sample	Total/NA	Solid	7471A	84124
LCSD 860-84124/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	84124
860-39396-1 MS	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-1 MSD	Cell 8-123-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-11 MS	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	84124
860-39396-11 MSD	Cell 6-207-S-3-4-221213	Total/NA	Solid	7471A	84124

Analysis Batch: 86526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	6020B	83312

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Metals (Continued)

Analysis Batch: 86526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	6020B	83312
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	6020B	83564
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	6020B	83564

General Chemistry

Analysis Batch: 82481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-1	Cell 8-123-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-2	Cell 8-162-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-3	Cell 8-91-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-4	Cell 7-23-S-3-4-221213	Total/NA	Solid	Moisture	
MB 860-82481/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 82522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-5	Cell 7-154-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-6	Cell 7-35-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-7	Cell 7-59-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-8	Cell 6-25-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-9	Cell 6-111-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-10	Cell 6-203-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-11	Cell 6-207-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-12	Cell 5-14-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-13	Cell 5-167-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-14	Cell 5-187-S-3-4-221213	Total/NA	Solid	Moisture	
860-39396-15	Cell 5-121-S-3-4-221213	Total/NA	Solid	Moisture	
MB 860-82522/1	Method Blank	Total/NA	Solid	Moisture	
860-39396-5 DU	Cell 7-154-S-3-4-221213	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 8-123-S-3-4-221213 Lab Sample ID: 860-39396-1

Date Collected: 12/13/22 08:35 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 21:58	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:27	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:17	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82481	12/18/22 18:28	ALL	EET HOU

Client Sample ID: Cell 8-162-S-3-4-221213 Lab Sample ID: 860-39396-2

Date Collected: 12/13/22 08:50 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 22:01	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:30	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:24	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82481	12/18/22 18:28	ALL	EET HOU

Client Sample ID: Cell 8-91-S-3-4-221213 Lab Sample ID: 860-39396-3

Date Collected: 12/13/22 09:11 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 22:04	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:32	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:25	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82481	12/18/22 18:28	ALL	EET HOU

Client Sample ID: Cell 7-23-S-3-4-221213 Lab Sample ID: 860-39396-4

Date Collected: 12/13/22 09:30 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 22:07	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83312	12/26/22 15:39	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:39	SHZ	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:29	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 7-23-S-3-4-221213 Lab Sample ID: 860-39396-4
Date Collected: 12/13/22 09:30 **Matrix: Solid**
Date Received: 12/14/22 10:46

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			82481	12/18/22 18:28	ALL	EET HOU

Client Sample ID: Cell 7-154-S-3-4-221213 Lab Sample ID: 860-39396-5
Date Collected: 12/13/22 09:54 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:34	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:42	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:31	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 7-35-S-3-4-221213 Lab Sample ID: 860-39396-6
Date Collected: 12/13/22 10:03 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:37	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:44	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:32	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 7-59-S-3-4-221213 Lab Sample ID: 860-39396-7
Date Collected: 12/13/22 10:19 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:40	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:47	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:33	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 6-25-S-3-4-221213 Lab Sample ID: 860-39396-8

Date Collected: 12/13/22 10:40 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:43	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:49	SHZ	EET HOU
Total/NA	Prep	7471A			.6 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:35	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 6-111-S-3-4-221213 Lab Sample ID: 860-39396-9

Date Collected: 12/13/22 10:56 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:46	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:52	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:36	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 6-203-S-3-4-221213 Lab Sample ID: 860-39396-10

Date Collected: 12/13/22 11:12 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:49	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:54	SHZ	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:37	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 6-207-S-3-4-221213 Lab Sample ID: 860-39396-11

Date Collected: 12/13/22 11:28 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:52	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:56	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:39	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 6-207-S-3-4-221213
Lab Sample ID: 860-39396-11
Date Collected: 12/13/22 11:28
Matrix: Solid
Date Received: 12/14/22 10:46

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			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 5-14-S-3-4-221213
Lab Sample ID: 860-39396-12
Date Collected: 12/13/22 11:49
Matrix: Solid
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 14:55	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 22:59	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:48	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 5-167-S-3-4-221213
Lab Sample ID: 860-39396-13
Date Collected: 12/13/22 12:10
Matrix: Solid
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 15:03	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 23:01	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:50	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 5-187-S-3-4-221213
Lab Sample ID: 860-39396-14
Date Collected: 12/13/22 12:25
Matrix: Solid
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 15:06	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 23:09	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:51	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39396-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 5-121-S-3-4-221213
Lab Sample ID: 860-39396-15

Date Collected: 12/13/22 12:41
Matrix: Solid
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 15:09	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83564	12/28/22 09:48	PB	EET HOU
Total/NA	Analysis	6020B		5			86526	01/18/23 23:11	SHZ	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	84124	01/03/23 10:32	AGR	EET HOU
Total/NA	Analysis	7471A		1			84208	01/03/23 15:53	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39396-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-39396-1

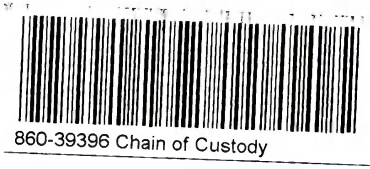
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39396-1	Cell 8-123-S-3-4-221213	Solid	12/13/22 08:35	12/14/22 10:46
860-39396-2	Cell 8-162-S-3-4-221213	Solid	12/13/22 08:50	12/14/22 10:46
860-39396-3	Cell 8-91-S-3-4-221213	Solid	12/13/22 09:11	12/14/22 10:46
860-39396-4	Cell 7-23-S-3-4-221213	Solid	12/13/22 09:30	12/14/22 10:46
860-39396-5	Cell 7-154-S-3-4-221213	Solid	12/13/22 09:54	12/14/22 10:46
860-39396-6	Cell 7-35-S-3-4-221213	Solid	12/13/22 10:03	12/14/22 10:46
860-39396-7	Cell 7-59-S-3-4-221213	Solid	12/13/22 10:19	12/14/22 10:46
860-39396-8	Cell 6-25-S-3-4-221213	Solid	12/13/22 10:40	12/14/22 10:46
860-39396-9	Cell 6-111-S-3-4-221213	Solid	12/13/22 10:56	12/14/22 10:46
860-39396-10	Cell 6-203-S-3-4-221213	Solid	12/13/22 11:12	12/14/22 10:46
860-39396-11	Cell 6-207-S-3-4-221213	Solid	12/13/22 11:28	12/14/22 10:46
860-39396-12	Cell 5-14-S-3-4-221213	Solid	12/13/22 11:49	12/14/22 10:46
860-39396-13	Cell 5-167-S-3-4-221213	Solid	12/13/22 12:10	12/14/22 10:46
860-39396-14	Cell 5-187-S-3-4-221213	Solid	12/13/22 12:25	12/14/22 10:46
860-39396-15	Cell 5-121-S-3-4-221213	Solid	12/13/22 12:41	12/14/22 10:46

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

Chain of Custody Record

Environment Testing



Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	Page 1 of 2
Company: ARCADIS U.S., Inc.	PWSID:		Job #:
Address: 1004 North Big Spring Suite 300	Due Date Requested:	Analysis Requested	
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: Jal Land Farm	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:

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)	6020B - Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 - Hg	Moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N				
Cell 8-123-S-3-4-221213	12/13/22	0835	G	Solid			X	X	X	1	
Cell 8-102-S-3-4-221213	12/13/22	0850	G	Solid			X	X	X	1	
Cell 8-81-S-3-4-221213	12/13/22	0911	G	Solid			X	X	X	1	
Cell 7-23-S-3-4-221213	12/13/22	0930	G	Solid			X	X	X	1	
Cell 7-154-S-3-4-221213	12/13/22	0954	G	Solid			X	X	X	1	
Cell 7-35-S-3-4-221213	12/13/22	1003	G	Solid			X	X	X	1	
Cell 7-58-S-3-4-221213	12/13/22	1019	G	Solid			X	X	X	1	
Cell 6-25-S-3-4-221213	12/13/22	1040	G	Solid			X	X	X	1	
Cell 6-111-S-3-4-221213	12/13/22	1056	G	Solid			X	X	X	1	
Cell 6-203-S-3-4-221213	12/13/22	1112	G	Solid			X	X	X	1	
Cell 6-287-S-3-4-221213	12/13/22	1128	G	Solid			X	X	X	1	

Temp. IR ID:HOU-345
C/F:+0.3 4.7
Corrected Temp: 5.0
IR ID:HOU-343

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained lo
☐ Return To Client ☒ Disposal By Lab ☐ Archive F

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		12/13/22 / 1453	ARCADIS		12/14/22 10:46	Eurofins
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Received by OCD: 7/18/2023 11:20:27 AM

Released to Imaging: 1/29/2025 3:31:29 PM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U.S., 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 #: Purchase Order Requested			
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)	6020B - Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 - Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 5-14-S-3-4-221213	12/13/22	1145	G	Solid			X	X	X	1	
Cell 5-167-S-3-4-221213	12/13/22	1210	G	Solid			X	X	X	1	
Cell 5-187-S-3-4-221213	12/13/22	1225	G	Solid			X	X	X	1	
Cell 5-124-S-3-4-221213	12/13/22	1241	G	Solid			X	X	X	1	
				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
	12/13/22 1455	ARCADIS	Sarah Johnson	12/14/22 10:46	Eurofins
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

Page 1500 of 1603
Received by OCD: 7/18/2023 11:20:27 AM
1/20/2023
Page 35 of 36
Released to Imaging: 1/29/2025 3:31:29 PM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39396-1

Login Number: 39396 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	5.0
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	

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 1/30/2023 8:22:52 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39396-2

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/30/2023 8:22:52 PM

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: 860-39396-2

Table of Contents

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

Metals

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-2

Job ID: 860-39396-2

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39396-2

Receipt
The samples were received on 12/14/2022 10:46 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 5.0°C

Metals
Method 6020B: The Leachate Blank (LB) for preparation batch 860-87764 and 860-87821 and analytical batch 860-88025 contained Barium above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore 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.

Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 8-91-S-3-4-221213 Lab Sample ID: 860-39396-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00938	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.866	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 7-35-S-3-4-221213 Lab Sample ID: 860-39396-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00307	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.605	b	0.0200	0.00671	mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 8-91-S-3-4-221213 Lab Sample ID: 860-39396-3

Date Collected: 12/13/22 09:11 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00938**	**J**	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:51	1
Barium	**0.866**	**b**	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:51	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:51	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:51	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:51	1

Client Sample ID: Cell 7-35-S-3-4-221213 Lab Sample ID: 860-39396-6

Date Collected: 12/13/22 10:03 **Matrix: Solid**
Date Received: 12/14/22 10:46

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00307**	**J**	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:00	1
Barium	**0.605**	**b**	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:00	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:00	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:00	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:00	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-2

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-87821/1-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:04	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:04	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:04	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:04	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:04	1

Lab Sample ID: LCS 860-87821/2-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09378		mg/L		94	80 - 120
Barium	0.100	0.08947		mg/L		89	80 - 120
Cadmium	0.100	0.09575		mg/L		96	80 - 120
Chromium	0.100	0.09441		mg/L		94	80 - 120
Selenium	0.100	0.09445		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-87821/3-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09352		mg/L		94	80 - 120	0	20
Barium	0.100	0.09179		mg/L		92	80 - 120	3	20
Cadmium	0.100	0.09547		mg/L		95	80 - 120	0	20
Chromium	0.100	0.09350		mg/L		94	80 - 120	1	20
Selenium	0.100	0.09315		mg/L		93	80 - 120	1	20

Lab Sample ID: LB 860-87757/1-B
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:11	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:11	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:11	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:11	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:11	1

Lab Sample ID: LB 860-87764/1-C
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00145	U	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:41	1
Barium	0.01996	J	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:41	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:41	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:41	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:41	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Metals

Leach Batch: 87757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-87757/1-B	Method Blank	TCLP	Solid	1312	

Leach Batch: 87764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-3	Cell 8-91-S-3-4-221213	TCLP	Solid	1311	
860-39396-6	Cell 7-35-S-3-4-221213	TCLP	Solid	1311	
LB 860-87764/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 87821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-3	Cell 8-91-S-3-4-221213	TCLP	Solid	3010A	87764
860-39396-6	Cell 7-35-S-3-4-221213	TCLP	Solid	3010A	87764
LB 860-87757/1-B	Method Blank	TCLP	Solid	3010A	87757
LB 860-87764/1-C	Method Blank	TCLP	Solid	3010A	87764
MB 860-87821/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 88025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39396-3	Cell 8-91-S-3-4-221213	TCLP	Solid	6020B	87821
860-39396-6	Cell 7-35-S-3-4-221213	TCLP	Solid	6020B	87821
LB 860-87757/1-B	Method Blank	TCLP	Solid	6020B	87821
LB 860-87764/1-C	Method Blank	TCLP	Solid	6020B	87821
MB 860-87821/1-A	Method Blank	Total/NA	Solid	6020B	87821
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	6020B	87821
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	87821

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 8-91-S-3-4-221213 Lab Sample ID: 860-39396-3

Date Collected: 12/13/22 09:11 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 17:51	SHZ	EET HOU

Client Sample ID: Cell 7-35-S-3-4-221213 Lab Sample ID: 860-39396-6

Date Collected: 12/13/22 10:03 **Matrix: Solid**
Date Received: 12/14/22 10:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:00	SHZ	EET HOU

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39396-2
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39396-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39396-2
Project/Site: Chevron - Jal Land Farm Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39396-3	Cell 8-91-S-3-4-221213	Solid	12/13/22 09:11	12/14/22 10:46
860-39396-6	Cell 7-35-S-3-4-221213	Solid	12/13/22 10:03	12/14/22 10:46

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39396-2

Login Number: 39396 **List Source: Eurofins Houston**
List Number: 1
Creator: Torres, Sandra

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	5.0
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	

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 1/20/2023 3:00:36 PM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39397-1

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

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

Authorization



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1/20/2023 3:00:36 PM

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: 860-39397-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.
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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
N2	RPD of the MS and MSD exceeds the control limits
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.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Job ID: 860-39397-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39397-1

Comments
No additional comments.

Receipt
The samples were received on 12/15/2022 10:36 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 5.7º C.

Metals
Method 6020B: The method blank for preparation batch 860-83313 and analytical batch 860-83586 contained Iron 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.

Methods 6020A, 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-83313 and analytical batch 860-83586 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 860-82522 was outside control limits. Sample non-homogeneity is suspected.

Methods Moisture, SM 2540G: The sample duplicate (DUP) precision for analytical batch 860-82532 was outside control limits. Sample non-homogeneity is suspected.

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

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 1-36-S-3-4-221214 Lab Sample ID: 860-39397-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.87	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	304		3.33	1.14	mg/Kg	10		6020B	Total/NA
Beryllium	0.207	J	1.67	0.167	mg/Kg	10		6020B	Total/NA
Chromium	4.04		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	2.03	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	3090	b	16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	1.85		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	32.2		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.190	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.633	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	8.87		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 1-11-S-3-4-2211214 Lab Sample ID: 860-39397-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.23	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	402		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	1.68	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	0.993	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	1490	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.05	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	15.4		1.75	0.167	mg/Kg	10		6020B	Total/NA
Uranium	0.397	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	4.78		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 1-89-S-3-4-221214 Lab Sample ID: 860-39397-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.93		3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	264		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.23	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	0.853	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1090	b	16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	0.784	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	10.3		1.67	0.158	mg/Kg	10		6020B	Total/NA
Uranium	0.398	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	3.62		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell-1-156-S-3-4-221214 Lab Sample ID: 860-39397-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.18	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	363		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	1.79	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	0.966	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	1540	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	0.997	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	15.7		1.72	0.164	mg/Kg	10		6020B	Total/NA
Uranium	0.384	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.00		3.45	1.01	mg/Kg	10		6020B	Total/NA

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: 860-39397-1

Client Sample ID: Cell 2-146-S-3-4-221214 Lab Sample ID: 860-39397-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.28	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	465		3.51	1.20	mg/Kg	10		6020B	Total/NA
Chromium	2.50	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.47	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2170	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.51	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	25.2		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.196	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.388	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	9.23		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 2-40-S-3-4-221214 Lab Sample ID: 860-39397-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.62	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	659		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.52	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.00	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1360	b	16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	0.977	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	14.7		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.134	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.297	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	5.20		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 2-11-S-3-4-221214 Lab Sample ID: 860-39397-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.61	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	131		3.45	1.18	mg/Kg	10		6020B	Total/NA
Beryllium	0.172	J	1.72	0.172	mg/Kg	10		6020B	Total/NA
Cadmium	0.120	J	0.862	0.0776	mg/Kg	5		6020B	Total/NA
Chromium	3.25	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.53	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2570	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.65	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	27.6		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.208	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.266	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	9.39		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 2-65-S-3-4-221214 Lab Sample ID: 860-39397-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.64	J	3.45	0.172	mg/Kg	10		6020B	Total/NA
Barium	264		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	2.41	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.59	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2030	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.21	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	19.4		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.165	J	0.862	0.134	mg/Kg	5		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 2-65-S-3-4-221214 (Continued) — Lab Sample ID: 860-39397-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Uranium	0.406	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	5.38		3.45	1.01	mg/Kg	10		6020B	Total/NA
Mercury	0.00906	J	0.0189	0.00844	mg/Kg	1		7471A	Total/NA

Client Sample ID: Cell 3-121-S-3-4-221214 — Lab Sample ID: 860-39397-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.16	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	197		3.51	1.20	mg/Kg	10		6020B	Total/NA
Cadmium	0.0886	J	0.877	0.0789	mg/Kg	5		6020B	Total/NA
Chromium	2.76	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	1.43	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2160	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	1.41	J	1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	23.2		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.168	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.279	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	6.80		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 3-78-S-3-4-221214 — Lab Sample ID: 860-39397-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.78	J	3.57	0.179	mg/Kg	10		6020B	Total/NA
Barium	68.4		3.57	1.22	mg/Kg	10		6020B	Total/NA
Beryllium	0.188	J	1.79	0.179	mg/Kg	10		6020B	Total/NA
Cadmium	0.105	J	0.893	0.0804	mg/Kg	5		6020B	Total/NA
Chromium	4.94		3.57	0.482	mg/Kg	10		6020B	Total/NA
Copper	2.14	J	3.57	0.357	mg/Kg	10		6020B	Total/NA
Iron	3790	b	17.9	1.14	mg/Kg	10		6020B	Total/NA
Lead	2.44		1.79	0.116	mg/Kg	10		6020B	Total/NA
Manganese	35.9		1.79	0.170	mg/Kg	10		6020B	Total/NA
Selenium	0.203	J	0.893	0.138	mg/Kg	5		6020B	Total/NA
Uranium	0.190	J	0.893	0.0893	mg/Kg	10		6020B	Total/NA
Zinc	9.88		3.57	1.04	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 3-154-S-3-4-221214 — Lab Sample ID: 860-39397-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.01	J	3.39	0.169	mg/Kg	10		6020B	Total/NA
Barium	187		3.39	1.16	mg/Kg	10		6020B	Total/NA
Chromium	2.64	J	3.39	0.458	mg/Kg	10		6020B	Total/NA
Copper	1.42	J	3.39	0.339	mg/Kg	10		6020B	Total/NA
Iron	2190	b	16.9	1.08	mg/Kg	10		6020B	Total/NA
Lead	1.43	J	1.69	0.110	mg/Kg	10		6020B	Total/NA
Manganese	23.2		1.69	0.161	mg/Kg	10		6020B	Total/NA
Selenium	0.188	J	0.847	0.131	mg/Kg	5		6020B	Total/NA
Uranium	0.283	J	0.847	0.0847	mg/Kg	10		6020B	Total/NA
Zinc	5.95		3.39	0.992	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 3-131-S-3-4-221214 — Lab Sample ID: 860-39397-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.82	J	3.45	0.172	mg/Kg	10		6020B	Total/NA

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: 860-39397-1

Client Sample ID: Cell 3-131-S-3-4-221214 (Continued) Lab Sample ID: 860-39397-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	294		3.45	1.18	mg/Kg	10		6020B	Total/NA
Chromium	2.80	J	3.45	0.466	mg/Kg	10		6020B	Total/NA
Copper	1.77	J	3.45	0.345	mg/Kg	10		6020B	Total/NA
Iron	2460	b	17.2	1.10	mg/Kg	10		6020B	Total/NA
Lead	1.58	J	1.72	0.112	mg/Kg	10		6020B	Total/NA
Manganese	23.0		1.72	0.164	mg/Kg	10		6020B	Total/NA
Selenium	0.391	J	0.862	0.134	mg/Kg	5		6020B	Total/NA
Uranium	0.443	J	0.862	0.0862	mg/Kg	10		6020B	Total/NA
Zinc	8.21		3.45	1.01	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.69	J	3.51	0.175	mg/Kg	10		6020B	Total/NA
Barium	204		3.51	1.20	mg/Kg	10		6020B	Total/NA
Cadmium	0.103	J	0.877	0.0789	mg/Kg	5		6020B	Total/NA
Chromium	3.14	J	3.51	0.474	mg/Kg	10		6020B	Total/NA
Copper	2.09	J	3.51	0.351	mg/Kg	10		6020B	Total/NA
Iron	2910	b	17.5	1.12	mg/Kg	10		6020B	Total/NA
Lead	2.09		1.75	0.114	mg/Kg	10		6020B	Total/NA
Manganese	36.9		1.75	0.167	mg/Kg	10		6020B	Total/NA
Selenium	0.192	J	0.877	0.136	mg/Kg	5		6020B	Total/NA
Uranium	0.348	J	0.877	0.0877	mg/Kg	10		6020B	Total/NA
Zinc	7.92		3.51	1.03	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 4-202-S-3-4-221214 Lab Sample ID: 860-39397-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.05	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	129		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	1.68	J	3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.19	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	1440	b	16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	0.938	J	1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	15.6		1.67	0.158	mg/Kg	10		6020B	Total/NA
Uranium	0.343	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	8.29		3.33	0.975	mg/Kg	10		6020B	Total/NA

Client Sample ID: Cell 4-115-S-3-4-221214 Lab Sample ID: 860-39397-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.20	J	3.33	0.167	mg/Kg	10		6020B	Total/NA
Barium	27.6		3.33	1.14	mg/Kg	10		6020B	Total/NA
Chromium	3.60		3.33	0.450	mg/Kg	10		6020B	Total/NA
Copper	1.52	J	3.33	0.333	mg/Kg	10		6020B	Total/NA
Iron	3170	b	16.7	1.07	mg/Kg	10		6020B	Total/NA
Lead	2.09		1.67	0.108	mg/Kg	10		6020B	Total/NA
Manganese	27.3		1.67	0.158	mg/Kg	10		6020B	Total/NA
Selenium	0.192	J	0.833	0.129	mg/Kg	5		6020B	Total/NA
Uranium	0.0983	J	0.833	0.0833	mg/Kg	10		6020B	Total/NA
Zinc	8.71		3.33	0.975	mg/Kg	10		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 1-36-S-3-4-221214

Lab Sample ID: 860-39397-1
Date Collected: 12/14/22 08:28
Matrix: Solid
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/26/22 15:42	01/19/23 16:29	5
Arsenic	**2.87**	**J**	3.33	0.167	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Barium	**304**		3.33	1.14	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Beryllium	**0.207**	**J**	1.67	0.167	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/26/22 15:42	01/19/23 16:29	5
Chromium	**4.04**		3.33	0.450	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Copper	**2.03**	**J**	3.33	0.333	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Iron	**3090**	**b**	16.7	1.07	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Lead	**1.85**		1.67	0.108	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Manganese	**32.2**		1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Selenium	**0.190**	**J**	0.833	0.129	mg/Kg		12/26/22 15:42	01/19/23 16:29	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Uranium	**0.633**	**J**	0.833	0.0833	mg/Kg		12/26/22 15:42	12/27/22 22:45	10
Zinc	**8.87**		3.33	0.975	mg/Kg		12/26/22 15:42	12/27/22 22:45	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		01/04/23 13:06	01/04/23 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.5**				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	**97.5**				%			12/19/22 12:01	1

Client Sample ID: Cell 1-11-S-3-4-2211214

Lab Sample ID: 860-39397-2
Date Collected: 12/14/22 08:42
Matrix: Solid
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:42	01/19/23 16:31	5
Arsenic	**3.23**	**J**	3.51	0.175	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Barium	**402**		3.51	1.20	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:42	12/28/22 12:31	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/26/22 15:42	01/19/23 16:31	5
Chromium	**1.68**	**J**	3.51	0.474	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Copper	**0.993**	**J**	3.51	0.351	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Iron	**1490**	**b**	17.5	1.12	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Lead	**1.05**	**J**	1.75	0.114	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Manganese	**15.4**		1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Selenium	0.136	U	0.877	0.136	mg/Kg		12/26/22 15:42	01/19/23 16:31	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Uranium	**0.397**	**J**	0.877	0.0877	mg/Kg		12/26/22 15:42	12/27/22 23:06	10
Zinc	**4.78**		3.51	1.03	mg/Kg		12/26/22 15:42	12/27/22 23:06	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/04/23 13:06	01/04/23 18:37	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 1-11-S-3-4-2211214

Lab Sample ID: 860-39397-2
Matrix: Solid
Date Collected: 12/14/22 08:42
Date Received: 12/15/22 10:36

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.4				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	97.6				%			12/19/22 12:01	1

Client Sample ID: Cell 1-89-S-3-4-221214

Lab Sample ID: 860-39397-3
Matrix: Solid
Date Collected: 12/14/22 08:12
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/26/22 15:42	01/19/23 16:33	5
Arsenic	3.93		3.33	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Barium	264		3.33	1.14	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/26/22 15:42	12/28/22 12:34	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/26/22 15:42	01/19/23 16:33	5
Chromium	1.23	J	3.33	0.450	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Copper	0.853	J	3.33	0.333	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Iron	1090	b	16.7	1.07	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Lead	0.784	J	1.67	0.108	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Manganese	10.3		1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Selenium	0.129	U	0.833	0.129	mg/Kg		12/26/22 15:42	01/19/23 16:33	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Uranium	0.398	J	0.833	0.0833	mg/Kg		12/26/22 15:42	12/27/22 23:09	10
Zinc	3.62		3.33	0.975	mg/Kg		12/26/22 15:42	12/27/22 23:09	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		01/04/23 13:06	01/04/23 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	0.7				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	99.3				%			12/19/22 12:01	1

Client Sample ID: Cell-1-156-S-3-4-221214

Lab Sample ID: 860-39397-4
Matrix: Solid
Date Collected: 12/14/22 08:55
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/26/22 15:42	01/19/23 16:43	5
Arsenic	3.18	J	3.45	0.172	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Barium	363		3.45	1.18	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/26/22 15:42	12/28/22 12:37	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/26/22 15:42	01/19/23 16:43	5
Chromium	1.79	J	3.45	0.466	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Copper	0.966	J	3.45	0.345	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Iron	1540	b	17.2	1.10	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Lead	0.997	J	1.72	0.112	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Manganese	15.7		1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Selenium	0.134	U	0.862	0.134	mg/Kg		12/26/22 15:42	01/19/23 16:43	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell-1-156-S-3-4-221214

Lab Sample ID: 860-39397-4
Matrix: Solid
Date Collected: 12/14/22 08:55
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.138	U	1.72	0.138	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Uranium	**0.384**	**J**	0.862	0.0862	mg/Kg		12/26/22 15:42	12/27/22 23:12	10
Zinc	**5.00**		3.45	1.01	mg/Kg		12/26/22 15:42	12/27/22 23:12	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		01/04/23 13:06	01/04/23 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.6**				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	**99.4**				%			12/19/22 12:01	1

Client Sample ID: Cell 2-146-S-3-4-221214

Lab Sample ID: 860-39397-5
Matrix: Solid
Date Collected: 12/14/22 09:26
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:42	01/19/23 16:46	5
Arsenic	**2.28**	**J**	3.51	0.175	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Barium	**465**		3.51	1.20	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:42	12/28/22 12:40	10
Cadmium	0.0789	U	0.877	0.0789	mg/Kg		12/26/22 15:42	01/19/23 16:46	5
Chromium	**2.50**	**J**	3.51	0.474	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Copper	**1.47**	**J**	3.51	0.351	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Iron	**2170**	**b**	17.5	1.12	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Lead	**1.51**	**J**	1.75	0.114	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Manganese	**25.2**		1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Selenium	**0.196**	**J**	0.877	0.136	mg/Kg		12/26/22 15:42	01/19/23 16:46	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Uranium	**0.388**	**J**	0.877	0.0877	mg/Kg		12/26/22 15:42	12/27/22 23:14	10
Zinc	**9.23**		3.51	1.03	mg/Kg		12/26/22 15:42	12/27/22 23:14	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		01/04/23 13:06	01/04/23 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	**98.3**				%			12/19/22 12:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 2-40-S-3-4-221214

Lab Sample ID: 860-39397-6
Matrix: Solid
Date Collected: 12/14/22 09:42
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/26/22 15:42	01/19/23 16:48	5
Arsenic	**1.62**	**J**	3.33	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Barium	**659**		3.33	1.14	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/26/22 15:42	12/28/22 12:43	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/26/22 15:42	01/19/23 16:48	5
Chromium	**1.52**	**J**	3.33	0.450	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Copper	**1.00**	**J**	3.33	0.333	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Iron	**1360**	**b**	16.7	1.07	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Lead	**0.977**	**J**	1.67	0.108	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Manganese	**14.7**		1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Selenium	**0.134**	**J**	0.833	0.129	mg/Kg		12/26/22 15:42	01/19/23 16:48	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Uranium	**0.297**	**J**	0.833	0.0833	mg/Kg		12/26/22 15:42	12/27/22 23:17	10
Zinc	**5.20**		3.33	0.975	mg/Kg		12/26/22 15:42	12/27/22 23:17	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		01/04/23 13:06	01/04/23 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.8**				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	**97.2**				%			12/19/22 12:01	1

Client Sample ID: Cell 2-11-S-3-4-221214

Lab Sample ID: 860-39397-7
Matrix: Solid
Date Collected: 12/14/22 09:57
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/26/22 15:42	01/19/23 16:51	5
Arsenic	**1.61**	**J**	3.45	0.172	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Barium	**131**		3.45	1.18	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Beryllium	**0.172**	**J**	1.72	0.172	mg/Kg		12/26/22 15:42	12/28/22 12:46	10
Cadmium	**0.120**	**J**	0.862	0.0776	mg/Kg		12/26/22 15:42	01/19/23 16:51	5
Chromium	**3.25**	**J**	3.45	0.466	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Copper	**1.53**	**J**	3.45	0.345	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Iron	**2570**	**b**	17.2	1.10	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Lead	**1.65**	**J**	1.72	0.112	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Manganese	**27.6**		1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Selenium	**0.208**	**J**	0.862	0.134	mg/Kg		12/26/22 15:42	01/19/23 16:51	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Uranium	**0.266**	**J**	0.862	0.0862	mg/Kg		12/26/22 15:42	12/27/22 23:20	10
Zinc	**9.39**		3.45	1.01	mg/Kg		12/26/22 15:42	12/27/22 23:20	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/04/23 13:06	01/04/23 18:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 2-11-S-3-4-221214 Lab Sample ID: 860-39397-7

Date Collected: 12/14/22 09:57 **Matrix: Solid**
Date Received: 12/15/22 10:36

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.0				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	98.0				%			12/19/22 12:01	1

Client Sample ID: Cell 2-65-S-3-4-221214 Lab Sample ID: 860-39397-8

Date Collected: 12/14/22 10:12 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/26/22 15:42	01/19/23 16:53	5
Arsenic	2.64	J	3.45	0.172	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Barium	264		3.45	1.18	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/26/22 15:42	12/28/22 12:49	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/26/22 15:42	01/19/23 16:53	5
Chromium	2.41	J	3.45	0.466	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Copper	1.59	J	3.45	0.345	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Iron	2030	b	17.2	1.10	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Lead	1.21	J	1.72	0.112	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Manganese	19.4		1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Selenium	0.165	J	0.862	0.134	mg/Kg		12/26/22 15:42	01/19/23 16:53	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Uranium	0.406	J	0.862	0.0862	mg/Kg		12/26/22 15:42	12/27/22 23:23	10
Zinc	5.38		3.45	1.01	mg/Kg		12/26/22 15:42	12/27/22 23:23	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00906	J	0.0189	0.00844	mg/Kg		01/04/23 13:06	01/04/23 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	97.0				%			12/19/22 12:01	1

Client Sample ID: Cell 3-121-S-3-4-221214 Lab Sample ID: 860-39397-9

Date Collected: 12/14/22 10:27 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:42	01/19/23 16:55	5
Arsenic	2.16	J	3.51	0.175	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Barium	197		3.51	1.20	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:42	12/28/22 12:52	10
Cadmium	0.0886	J	0.877	0.0789	mg/Kg		12/26/22 15:42	01/19/23 16:55	5
Chromium	2.76	J	3.51	0.474	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Copper	1.43	J	3.51	0.351	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Iron	2160	b	17.5	1.12	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Lead	1.41	J	1.75	0.114	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Manganese	23.2		1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Selenium	0.168	J	0.877	0.136	mg/Kg		12/26/22 15:42	01/19/23 16:55	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 3-121-S-3-4-221214

Lab Sample ID: 860-39397-9
Matrix: Solid
Date Collected: 12/14/22 10:27
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Uranium	**0.279**	**J**	0.877	0.0877	mg/Kg		12/26/22 15:42	12/27/22 23:26	10
Zinc	**6.80**		3.51	1.03	mg/Kg		12/26/22 15:42	12/27/22 23:26	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		01/04/23 13:06	01/04/23 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**				%			12/19/22 12:01	1
Percent Solids (EPA Moisture)	**99.2**				%			12/19/22 12:01	1

Client Sample ID: Cell 3-78-S-3-4-221214

Lab Sample ID: 860-39397-10
Matrix: Solid
Date Collected: 12/14/22 10:45
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.951	U	1.79	0.951	mg/Kg		12/26/22 15:42	01/19/23 17:03	5
Arsenic	**1.78**	**J**	3.57	0.179	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Barium	**68.4**		3.57	1.22	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Beryllium	**0.188**	**J**	1.79	0.179	mg/Kg		12/26/22 15:42	12/28/22 13:03	10
Cadmium	**0.105**	**J**	0.893	0.0804	mg/Kg		12/26/22 15:42	01/19/23 17:03	5
Chromium	**4.94**		3.57	0.482	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Copper	**2.14**	**J**	3.57	0.357	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Iron	**3790**	**b**	17.9	1.14	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Lead	**2.44**		1.79	0.116	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Manganese	**35.9**		1.79	0.170	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Selenium	**0.203**	**J**	0.893	0.138	mg/Kg		12/26/22 15:42	01/19/23 17:03	5
Silver	0.143	U	1.79	0.143	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Thallium	0.170	U	1.79	0.170	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Uranium	**0.190**	**J**	0.893	0.0893	mg/Kg		12/26/22 15:42	12/27/22 23:29	10
Zinc	**9.88**		3.57	1.04	mg/Kg		12/26/22 15:42	12/27/22 23:29	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		01/04/23 13:06	01/04/23 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.4**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**97.6**				%			12/19/22 11:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Client Sample ID: Cell 3-154-S-3-4-221214

Lab Sample ID: 860-39397-11
Matrix: Solid
Date Collected: 12/14/22 11:02
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.903	U	1.69	0.903	mg/Kg		12/26/22 15:42	01/19/23 17:05	5
Arsenic	**3.01**	**J**	3.39	0.169	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Barium	**187**		3.39	1.16	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Beryllium	0.169	U	1.69	0.169	mg/Kg		12/26/22 15:42	12/28/22 13:06	10
Cadmium	0.0763	U	0.847	0.0763	mg/Kg		12/26/22 15:42	01/19/23 17:05	5
Chromium	**2.64**	**J**	3.39	0.458	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Copper	**1.42**	**J**	3.39	0.339	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Iron	**2190**	**b**	16.9	1.08	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Lead	**1.43**	**J**	1.69	0.110	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Manganese	**23.2**		1.69	0.161	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Selenium	**0.188**	**J**	0.847	0.131	mg/Kg		12/26/22 15:42	01/19/23 17:05	5
Silver	0.136	U	1.69	0.136	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Thallium	0.161	U	1.69	0.161	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Uranium	**0.283**	**J**	0.847	0.0847	mg/Kg		12/26/22 15:42	12/27/22 23:32	10
Zinc	**5.95**		3.39	0.992	mg/Kg		12/26/22 15:42	12/27/22 23:32	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		01/04/23 13:06	01/04/23 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.9**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**97.1**				%			12/19/22 11:25	1

Client Sample ID: Cell 3-131-S-3-4-221214

Lab Sample ID: 860-39397-12
Matrix: Solid
Date Collected: 12/14/22 11:07
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.918	U	1.72	0.918	mg/Kg		12/26/22 15:42	01/19/23 17:08	5
Arsenic	**2.82**	**J**	3.45	0.172	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Barium	**294**		3.45	1.18	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Beryllium	0.172	U	1.72	0.172	mg/Kg		12/26/22 15:42	12/28/22 13:08	10
Cadmium	0.0776	U	0.862	0.0776	mg/Kg		12/26/22 15:42	01/19/23 17:08	5
Chromium	**2.80**	**J**	3.45	0.466	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Copper	**1.77**	**J**	3.45	0.345	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Iron	**2460**	**b**	17.2	1.10	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Lead	**1.58**	**J**	1.72	0.112	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Manganese	**23.0**		1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Selenium	**0.391**	**J**	0.862	0.134	mg/Kg		12/26/22 15:42	01/19/23 17:08	5
Silver	0.138	U	1.72	0.138	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Thallium	0.164	U	1.72	0.164	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Uranium	**0.443**	**J**	0.862	0.0862	mg/Kg		12/26/22 15:42	12/27/22 23:41	10
Zinc	**8.21**		3.45	1.01	mg/Kg		12/26/22 15:42	12/27/22 23:41	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		01/04/23 13:06	01/04/23 19:01	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 3-131-S-3-4-221214 Lab Sample ID: 860-39397-12

Date Collected: 12/14/22 11:07 **Matrix: Solid**
Date Received: 12/15/22 10:36

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.6				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	96.4				%			12/19/22 11:25	1

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.934	U	1.75	0.934	mg/Kg		12/26/22 15:42	01/19/23 17:10	5
Arsenic	2.69	J	3.51	0.175	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Barium	204		3.51	1.20	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Beryllium	0.175	U	1.75	0.175	mg/Kg		12/26/22 15:42	12/28/22 13:11	10
Cadmium	0.103	J	0.877	0.0789	mg/Kg		12/26/22 15:42	01/19/23 17:10	5
Chromium	3.14	J	3.51	0.474	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Copper	2.09	J	3.51	0.351	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Iron	2910	b	17.5	1.12	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Lead	2.09		1.75	0.114	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Manganese	36.9		1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Selenium	0.192	J	0.877	0.136	mg/Kg		12/26/22 15:42	01/19/23 17:10	5
Silver	0.140	U	1.75	0.140	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Thallium	0.167	U	1.75	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Uranium	0.348	J	0.877	0.0877	mg/Kg		12/26/22 15:42	12/27/22 23:44	10
Zinc	7.92		3.51	1.03	mg/Kg		12/26/22 15:42	12/27/22 23:44	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00814	U	0.0182	0.00814	mg/Kg		01/04/23 13:06	01/04/23 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	1.7				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	98.3				%			12/19/22 11:25	1

Client Sample ID: Cell 4-202-S-3-4-221214 Lab Sample ID: 860-39397-14

Date Collected: 12/14/22 11:54 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/26/22 15:42	01/19/23 17:12	5
Arsenic	3.05	J	3.33	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Barium	129		3.33	1.14	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/26/22 15:42	12/28/22 13:14	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/26/22 15:42	01/19/23 17:12	5
Chromium	1.68	J	3.33	0.450	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Copper	1.19	J	3.33	0.333	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Iron	1440	b	16.7	1.07	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Lead	0.938	J	1.67	0.108	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Manganese	15.6		1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Selenium	0.129	U	0.833	0.129	mg/Kg		12/26/22 15:42	01/19/23 17:12	5

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 4-202-S-3-4-221214 Lab Sample ID: 860-39397-14

Date Collected: 12/14/22 11:54 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.133	U	1.67	0.133	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Uranium	**0.343**	**J**	0.833	0.0833	mg/Kg		12/26/22 15:42	12/27/22 23:47	10
Zinc	**8.29**		3.33	0.975	mg/Kg		12/26/22 15:42	12/27/22 23:47	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		01/04/23 13:06	01/04/23 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.9**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**99.1**				%			12/19/22 11:25	1

Client Sample ID: Cell 4-115-S-3-4-221214 Lab Sample ID: 860-39397-15

Date Collected: 12/14/22 12:08 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.888	U	1.67	0.888	mg/Kg		12/26/22 15:42	01/19/23 17:15	5
Arsenic	**1.20**	**J**	3.33	0.167	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Barium	**27.6**		3.33	1.14	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Beryllium	0.167	U	1.67	0.167	mg/Kg		12/26/22 15:42	12/28/22 13:17	10
Cadmium	0.0750	U	0.833	0.0750	mg/Kg		12/26/22 15:42	01/19/23 17:15	5
Chromium	**3.60**		3.33	0.450	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Copper	**1.52**	**J**	3.33	0.333	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Iron	**3170**	**b**	16.7	1.07	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Lead	**2.09**		1.67	0.108	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Manganese	**27.3**		1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Selenium	**0.192**	**J**	0.833	0.129	mg/Kg		12/26/22 15:42	01/19/23 17:15	5
Silver	0.133	U	1.67	0.133	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Thallium	0.158	U	1.67	0.158	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Uranium	**0.0983**	**J**	0.833	0.0833	mg/Kg		12/26/22 15:42	12/27/22 23:50	10
Zinc	**8.71**		3.33	0.975	mg/Kg		12/26/22 15:42	12/27/22 23:50	10

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00772	U	0.0172	0.00772	mg/Kg		01/04/23 13:06	01/04/23 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.4**				%			12/19/22 11:25	1
Percent Solids (EPA Moisture)	**97.6**				%			12/19/22 11:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-83313/1-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.209	U	0.392	0.209	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Arsenic	0.0196	U	0.392	0.0196	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Barium	0.134	U	0.392	0.134	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Beryllium	0.0196	U	0.196	0.0196	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Cadmium	0.0176	U	0.196	0.0176	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Chromium	0.0529	U	0.392	0.0529	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Copper	0.0392	U	0.392	0.0392	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Iron	0.5302	J	1.96	0.125	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Lead	0.0127	U	0.196	0.0127	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Manganese	0.0186	U	0.196	0.0186	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Selenium	0.0304	U	0.196	0.0304	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Silver	0.0157	U	0.196	0.0157	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Thallium	0.0186	U	0.196	0.0186	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Uranium	0.00980	U	0.0980	0.00980	mg/Kg		12/26/22 15:42	12/27/22 22:36	1
Zinc	0.115	U	0.392	0.115	mg/Kg		12/26/22 15:42	12/27/22 22:36	1

Lab Sample ID: LCS 860-83313/2-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	8.727		mg/Kg		87	80 - 120
Arsenic	10.0	9.322		mg/Kg		93	80 - 120
Barium	10.0	9.629		mg/Kg		96	80 - 120
Beryllium	10.0	9.070		mg/Kg		91	80 - 120
Cadmium	10.0	8.782		mg/Kg		88	80 - 120
Chromium	10.0	8.966		mg/Kg		90	80 - 120
Copper	10.0	8.809		mg/Kg		88	80 - 120
Iron	50.0	43.61		mg/Kg		87	80 - 120
Lead	10.0	9.128		mg/Kg		91	80 - 120
Manganese	10.0	9.373		mg/Kg		94	80 - 120
Selenium	10.0	9.279		mg/Kg		93	80 - 120
Silver	5.00	4.232		mg/Kg		85	80 - 120
Thallium	10.0	9.204		mg/Kg		92	80 - 120
Uranium	2.50	2.311		mg/Kg		92	80 - 120
Zinc	10.0	9.364		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-83313/3-A
Matrix: Solid
Analysis Batch: 83586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	8.704		mg/Kg		89	80 - 120	0	20
Arsenic	9.80	9.132		mg/Kg		93	80 - 120	2	20
Barium	9.80	9.565		mg/Kg		98	80 - 120	1	20
Beryllium	9.80	9.094		mg/Kg		93	80 - 120	0	20
Cadmium	9.80	8.660		mg/Kg		88	80 - 120	1	20
Chromium	9.80	8.816		mg/Kg		90	80 - 120	2	20
Copper	9.80	8.591		mg/Kg		88	80 - 120	3	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-83313/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83313**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron			49.0	42.61		mg/Kg		87	80 - 120	2	20
Lead			9.80	9.065		mg/Kg		92	80 - 120	1	20
Manganese			9.80	9.124		mg/Kg		93	80 - 120	3	20
Selenium			9.80	9.216		mg/Kg		94	80 - 120	1	20
Silver			4.90	4.152		mg/Kg		85	80 - 120	2	20
Thallium			9.80	9.065		mg/Kg		92	80 - 120	2	20
Uranium			2.45	2.285		mg/Kg		93	80 - 120	1	20
Zinc			9.80	9.165		mg/Kg		93	80 - 120	2	20

Lab Sample ID: 860-39397-1 MS — **Client Sample ID: Cell 1-36-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83313**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.88	J	8.99	5.539	N1	mg/Kg	☼	40	75 - 125
Arsenic	2.87	J	8.99	7.419	N1	mg/Kg	☼	50	75 - 125
Barium	304		8.99	244.9	4	mg/Kg	☼	-746	75 - 125
Beryllium	0.207	J	8.99	5.295	N1	mg/Kg	☼	57	75 - 125
Cadmium	0.150	U	8.99	4.850	N1	mg/Kg	☼	54	75 - 125
Chromium	4.04		8.99	7.653	N1	mg/Kg	☼	39	75 - 125
Copper	2.03	J	8.99	6.284	N1	mg/Kg	☼	47	75 - 125
Iron	3090	b	45.0	2430	4	mg/Kg	☼	-1638	75 - 125
Lead	1.85		8.99	6.594	N1	mg/Kg	☼	52	75 - 125
Manganese	32.2		8.99	31.53	N1	mg/Kg	☼	-17	75 - 125
Selenium	0.258	U	8.99	5.401	N1	mg/Kg	☼	60	75 - 125
Silver	0.133	U	4.50	2.566	N1	mg/Kg	☼	57	75 - 125
Thallium	0.158	U	8.99	5.175	N1	mg/Kg	☼	58	75 - 125
Uranium	0.633	J	2.25	1.845	N1	mg/Kg	☼	53	75 - 125
Zinc	8.87		8.99	13.10	N1	mg/Kg	☼	45	75 - 125

Lab Sample ID: 860-39397-1 MSD — **Client Sample ID: Cell 1-36-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83313**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.88	J	8.99	6.489	N1	mg/Kg	☼	51	75 - 125	16	20
Arsenic	2.87	J	8.99	9.190	N1 N2	mg/Kg	☼	69	75 - 125	21	20
Barium	304		8.99	310.3	4 N2	mg/Kg	☼	-19	75 - 125	24	20
Beryllium	0.207	J	8.99	6.070	N1	mg/Kg	☼	65	75 - 125	14	20
Cadmium	0.150	U	8.99	5.844	N1	mg/Kg	☼	65	75 - 125	19	20
Chromium	4.04		8.99	9.893	N1 N2	mg/Kg	☼	64	75 - 125	26	20
Copper	2.03	J	8.99	8.086	N1 N2	mg/Kg	☼	67	75 - 125	25	20
Iron	3090	b	45.0	3259	4 N2	mg/Kg	☼	206	75 - 125	29	20
Lead	1.85		8.99	7.956	N1	mg/Kg	☼	67	75 - 125	19	20
Manganese	32.2		8.99	41.63	N2	mg/Kg	☼	95	75 - 125	28	20
Selenium	0.258	U	8.99	6.248	N1	mg/Kg	☼	69	75 - 125	15	20
Silver	0.133	U	4.50	2.977	N1	mg/Kg	☼	66	75 - 125	15	20
Thallium	0.158	U	8.99	6.129	N1	mg/Kg	☼	68	75 - 125	17	20
Uranium	0.633	J	2.25	2.234	N1	mg/Kg	☼	71	75 - 125	19	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-39397-1 MSD — **Client Sample ID: Cell 1-36-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83586 — **Prep Batch: 83313**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	8.87		8.99	20.91	N1 N2	mg/Kg	☼	131	75 - 125	46	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-84352/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00829	U	0.0185	0.00829	mg/Kg		01/04/23 13:06	01/04/23 18:25	1

Lab Sample ID: LCS 860-84352/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.185	0.1746		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 860-84352/12-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.185	0.1784		mg/Kg		96	80 - 120	2	20

Lab Sample ID: 860-39397-1 MS — **Client Sample ID: Cell 1-36-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00877	U	0.197	0.1818		mg/Kg	☼	92	75 - 125

Lab Sample ID: 860-39397-1 MSD — **Client Sample ID: Cell 1-36-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00877	U	0.190	0.1728		mg/Kg	☼	91	75 - 125	5	20

Lab Sample ID: 860-39397-11 MS — **Client Sample ID: Cell 3-154-S-3-4-221214**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84418 — **Prep Batch: 84352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00844	U	0.194	0.1836		mg/Kg	☼	95	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 860-39397-11 MSD
Matrix: Solid
Analysis Batch: 84418

Client Sample ID: Cell 3-154-S-3-4-221214
Prep Type: Total/NA
Prep Batch: 84352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00844	U	0.194	0.1788		mg/Kg	☼	92	75 - 125	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-82522/1
Matrix: Solid
Analysis Batch: 82522

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.04				%			12/19/22 11:25	1
Percent Solids	100				%			12/19/22 11:25	1

Lab Sample ID: MB 860-82532/1
Matrix: Solid
Analysis Batch: 82532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.04				%			12/19/22 12:01	1
Percent Solids	100				%			12/19/22 12:01	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Metals

Prep Batch: 83313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	3051A	
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	3051A	
MB 860-83313/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-83313/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-83313/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-39397-1 MS	Cell 1-36-S-3-4-221214	Total/NA	Solid	3051A	
860-39397-1 MSD	Cell 1-36-S-3-4-221214	Total/NA	Solid	3051A	

Analysis Batch: 83586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	6020B	83313
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	6020B	83313
MB 860-83313/1-A	Method Blank	Total/NA	Solid	6020B	83313
LCS 860-83313/2-A	Lab Control Sample	Total/NA	Solid	6020B	83313
LCSD 860-83313/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	83313
860-39397-1 MS	Cell 1-36-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-1 MSD	Cell 1-36-S-3-4-221214	Total/NA	Solid	6020B	83313

Analysis Batch: 83617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	6020B	83313
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	6020B	83313

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Metals (Continued)

Analysis Batch: 83617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	6020B	83313

Prep Batch: 84352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	7471A	
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	7471A	
MB 860-84352/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-84352/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-84352/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
860-39397-1 MS	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-1 MSD	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-11 MS	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	
860-39397-11 MSD	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	

Analysis Batch: 84418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	7471A	84352
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	7471A	84352

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Metals (Continued)

Analysis Batch: 84418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	7471A	84352
MB 860-84352/10-A	Method Blank	Total/NA	Solid	7471A	84352
LCS 860-84352/11-A	Lab Control Sample	Total/NA	Solid	7471A	84352
LCSD 860-84352/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	84352
860-39397-1 MS	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-1 MSD	Cell 1-36-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-11 MS	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	84352
860-39397-11 MSD	Cell 3-154-S-3-4-221214	Total/NA	Solid	7471A	84352

Analysis Batch: 86567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	6020B	83313
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	6020B	83313
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	6020B	83313

General Chemistry

Analysis Batch: 82522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-10	Cell 3-78-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-11	Cell 3-154-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-12	Cell 3-131-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-13	Cell 4-38-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-14	Cell 4-202-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-15	Cell 4-115-S-3-4-221214	Total/NA	Solid	Moisture	
MB 860-82522/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 82532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-1	Cell 1-36-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-2	Cell 1-11-S-3-4-2211214	Total/NA	Solid	Moisture	
860-39397-3	Cell 1-89-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-4	Cell-1-156-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-5	Cell 2-146-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-6	Cell 2-40-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-7	Cell 2-11-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-8	Cell 2-65-S-3-4-221214	Total/NA	Solid	Moisture	
860-39397-9	Cell 3-121-S-3-4-221214	Total/NA	Solid	Moisture	
MB 860-82532/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 1-36-S-3-4-221214 Lab Sample ID: 860-39397-1

Date Collected: 12/14/22 08:28 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 22:45	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:29	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:30	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 1-11-S-3-4-2211214 Lab Sample ID: 860-39397-2

Date Collected: 12/14/22 08:42 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:06	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:31	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:31	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:37	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 1-89-S-3-4-221214 Lab Sample ID: 860-39397-3

Date Collected: 12/14/22 08:12 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:09	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:34	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:33	SHZ	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:41	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell-1-156-S-3-4-221214 Lab Sample ID: 860-39397-4

Date Collected: 12/14/22 08:55 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:12	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell-1-156-S-3-4-221214 Lab Sample ID: 860-39397-4

Date Collected: 12/14/22 08:55 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:37	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:43	SHZ	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:42	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 2-146-S-3-4-221214 Lab Sample ID: 860-39397-5

Date Collected: 12/14/22 09:26 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:14	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:40	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:46	SHZ	EET HOU
Total/NA	Prep	7471A			.51 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:43	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 2-40-S-3-4-221214 Lab Sample ID: 860-39397-6

Date Collected: 12/14/22 09:42 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:17	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:43	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:48	SHZ	EET HOU
Total/NA	Prep	7471A			.5 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:45	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 2-11-S-3-4-221214 Lab Sample ID: 860-39397-7

Date Collected: 12/14/22 09:57 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:20	DP	EET HOU

Eurofins Houston

Released to Imaging: 1/29/2025 3:31:29 PM

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 2-11-S-3-4-221214
Lab Sample ID: 860-39397-7
Date Collected: 12/14/22 09:57
Matrix: Solid
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:46	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:51	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:46	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 2-65-S-3-4-221214
Lab Sample ID: 860-39397-8
Date Collected: 12/14/22 10:12
Matrix: Solid
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:23	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:49	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:53	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:48	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 3-121-S-3-4-221214
Lab Sample ID: 860-39397-9
Date Collected: 12/14/22 10:27
Matrix: Solid
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:26	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 12:52	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 16:55	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:49	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82532	12/19/22 12:01	JM	EET HOU

Client Sample ID: Cell 3-78-S-3-4-221214
Lab Sample ID: 860-39397-10
Date Collected: 12/14/22 10:45
Matrix: Solid
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.56 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:29	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 3-78-S-3-4-221214 Lab Sample ID: 860-39397-10

Date Collected: 12/14/22 10:45 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.56 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:03	DP	EET HOU
Total/NA	Prep	3051A			.56 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:03	SHZ	EET HOU
Total/NA	Prep	7471A			.52 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:50	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 3-154-S-3-4-221214 Lab Sample ID: 860-39397-11

Date Collected: 12/14/22 11:02 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.59 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:32	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:06	DP	EET HOU
Total/NA	Prep	3051A			.59 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:05	SHZ	EET HOU
Total/NA	Prep	7471A			.53 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 18:52	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 3-131-S-3-4-221214 Lab Sample ID: 860-39397-12

Date Collected: 12/14/22 11:07 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:41	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:08	DP	EET HOU
Total/NA	Prep	3051A			.58 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:08	SHZ	EET HOU
Total/NA	Prep	7471A			.57 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 19:01	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:44	DP	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:11	DP	EET HOU
Total/NA	Prep	3051A			.57 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:10	SHZ	EET HOU
Total/NA	Prep	7471A			.55 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 19:03	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 4-202-S-3-4-221214 Lab Sample ID: 860-39397-14

Date Collected: 12/14/22 11:54 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:47	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:14	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:12	SHZ	EET HOU
Total/NA	Prep	7471A			.54 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 19:04	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

Client Sample ID: Cell 4-115-S-3-4-221214 Lab Sample ID: 860-39397-15

Date Collected: 12/14/22 12:08 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83586	12/27/22 23:50	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		10			83617	12/28/22 13:17	DP	EET HOU
Total/NA	Prep	3051A			.6 g	50 mL	83313	12/26/22 15:42	PB	EET HOU
Total/NA	Analysis	6020B		5			86567	01/19/23 17:15	SHZ	EET HOU
Total/NA	Prep	7471A			.58 g	50 mL	84352	01/04/23 13:06	AGR	EET HOU
Total/NA	Analysis	7471A		1			84418	01/04/23 19:06	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			82522	12/19/22 11:25	JM	EET HOU

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-39397-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39397-1	Cell 1-36-S-3-4-221214	Solid	12/14/22 08:28	12/15/22 10:36
860-39397-2	Cell 1-11-S-3-4-2211214	Solid	12/14/22 08:42	12/15/22 10:36
860-39397-3	Cell 1-89-S-3-4-221214	Solid	12/14/22 08:12	12/15/22 10:36
860-39397-4	Cell-1-156-S-3-4-221214	Solid	12/14/22 08:55	12/15/22 10:36
860-39397-5	Cell 2-146-S-3-4-221214	Solid	12/14/22 09:26	12/15/22 10:36
860-39397-6	Cell 2-40-S-3-4-221214	Solid	12/14/22 09:42	12/15/22 10:36
860-39397-7	Cell 2-11-S-3-4-221214	Solid	12/14/22 09:57	12/15/22 10:36
860-39397-8	Cell 2-65-S-3-4-221214	Solid	12/14/22 10:12	12/15/22 10:36
860-39397-9	Cell 3-121-S-3-4-221214	Solid	12/14/22 10:27	12/15/22 10:36
860-39397-10	Cell 3-78-S-3-4-221214	Solid	12/14/22 10:45	12/15/22 10:36
860-39397-11	Cell 3-154-S-3-4-221214	Solid	12/14/22 11:02	12/15/22 10:36
860-39397-12	Cell 3-131-S-3-4-221214	Solid	12/14/22 11:07	12/15/22 10:36
860-39397-13	Cell 4-38-S-3-4-221214	Solid	12/14/22 11:35	12/15/22 10:36
860-39397-14	Cell 4-202-S-3-4-221214	Solid	12/14/22 11:54	12/15/22 10:36
860-39397-15	Cell 4-115-S-3-4-221214	Solid	12/14/22 12:08	12/15/22 10:36

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jerry Showgerell	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-288-0876	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: ARCADIS U.S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jal Land Farm	SSOW#:			

Analysis Requested

860-39397 Chain of Custody

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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
Preservation Code:							N				
Cell 1-36-5-3-4-221214	12/14/22	0823	G	Solid			X	X	X	1	
Cell 1-11-5-3-4-221214	12/14/22	0842	G	Solid			X	X	X	1	
Cell 1-88-5-3-4-221214	12/14/22	0912	G	Solid			X	X	X	1	
Cell 1-156-5-3-4-221214	12/14/22	0933	G	Solid			X	X	X	1	
Cell 2-146-5-3-4-221214	12/14/22	0920	G	Solid			X	X	X	1	
Cell 2-40-5-3-4-221214	12/14/22	0942	G	Solid			X	X	X	1	
Cell 2-4-5-3-4-221214	12/14/22	0957	G	Solid			X	X	X	1	
Cell 2-65-5-3-4-221214	12/14/22	1012	G	Solid			X	X	X	1	
Cell 3-116-5-3-4-221214	12/14/22	1027	G	Solid			X	X	X	1	
Cell 3-79-5-3-4-221214	12/14/22	1045	G	Solid			X	X	X	1	
Cell 3-154-5-3-4-221214	12/14/22	1102	G	Solid			X	X	X	1	

Temp: 4.5 IR ID: HOU-344
C/F: +1.2
Corrected Temp: 5.7

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
	12/14/22 1435	ARCADIS			
Relinquished by: MDN	Date/Time:	Company	Received by: Linda	Date/Time: 12/15/22 10:36	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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: 860-14538-5163.1
Client Contact: Sarah Johnson	Phone: 432-248-8875	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: ARCADIS U S. 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 #: Purchase Order Requested			
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)	6020B Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, U, Zn	7471 Hg	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N				
Cell 3-131-5-3-F-122214	12/14/22	1117	G	Solid			X	X	X	1	
Cell-F-38-5-3-F-122214	12/14/22	1135	G	Solid			X	X	X	1	
Cell 4-202-5-3-F-122214	12/14/22	1154	G	Solid			X	X	X	1	
Cell 4-115-5-3-F-122214	12/14/22	1203	G	Solid			X	X	X	1	
Cell 4-130-5-3-F-122214	12/14/22	1222	G	Solid			X	X	X	1	
				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
1		12/14/22 1436	ARCADIS			
2					12/15/22 10:36	
3						

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39397-1

Login Number: 39397 **List Source: Eurofins Houston**
List Number: 1
Creator: Milone, Jeancarlo

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	
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	

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 2/3/2023 10:32:07 AM

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39397-2

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

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

Authorization



Generated
2/3/2023 10:32:07 AM

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: 860-39397-2

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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.
b	The compound was found in the blank and sample
H	Sample was prepped or analyzed beyond the specified holding time
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: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-2

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39397-2

Receipt
The samples were received on 12/15/2022 10:36 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 5.7°C

Metals
Method 6020B: The Leachate Blank (LB) for preparation batch 860-87764 and 860-87821 and analytical batch 860-88025 contained Barium above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore re-analysis of samples was not performed.

Method 6020B: The TCLP leachate blank for batch 860-88392 and 860-88522 contained Barium above the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Limit. The associated samples were also below the TCLP Regulatory Limit for this analyte; therefore, re-extraction was not performed.

Method 6020B: The matrix spike (MS) recoveries for preparation batch 860-88392 and 860-88522 and analytical batch 860-88639 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits.

Method 7471A: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Cell 4-130-S-3-4-221214 (860-39397-16).

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.

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Detection Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 2-40-S-3-4-221214 — Lab Sample ID: 860-39397-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00646	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.909	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 2-11-S-3-4-221214 — Lab Sample ID: 860-39397-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00342	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.476	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 3-78-S-3-4-221214 — Lab Sample ID: 860-39397-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00398	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.690	b	0.0200	0.00671	mg/L	1		6020B	TCLP
Selenium	0.00157	J	0.0100	0.00133	mg/L	1		6020B	TCLP

Client Sample ID: Cell 3-131-S-3-4-221214 — Lab Sample ID: 860-39397-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00794	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.632	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 4-38-S-3-4-221214 — Lab Sample ID: 860-39397-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00701	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.803	b	0.0200	0.00671	mg/L	1		6020B	TCLP

Client Sample ID: Cell 4-130-S-3-4-221214 — Lab Sample ID: 860-39397-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.471	J	3.78	0.189	mg/Kg	10	☼	6020B	Total/NA
Barium	29.5		3.78	1.29	mg/Kg	10	☼	6020B	Total/NA
Copper	4.41		3.78	0.378	mg/Kg	10	☼	6020B	Total/NA
Iron	238		18.9	1.21	mg/Kg	10	☼	6020B	Total/NA
Lead	0.150	J	1.89	0.123	mg/Kg	10	☼	6020B	Total/NA
Manganese	3.29		1.89	0.179	mg/Kg	10	☼	6020B	Total/NA
Arsenic	0.00173	J	0.0200	0.00145	mg/L	1		6020B	TCLP
Barium	0.612	b	0.0200	0.00671	mg/L	1		6020B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 2-40-S-3-4-221214 Lab Sample ID: 860-39397-6

Date Collected: 12/14/22 09:42 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00646	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:03	1
Barium	0.909	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:03	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:03	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:03	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:03	1

Client Sample ID: Cell 2-11-S-3-4-221214 Lab Sample ID: 860-39397-7

Date Collected: 12/14/22 09:57 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00342	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:05	1
Barium	0.476	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:05	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:05	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:05	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:05	1

Client Sample ID: Cell 3-78-S-3-4-221214 Lab Sample ID: 860-39397-10

Date Collected: 12/14/22 10:45 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00398	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:08	1
Barium	0.690	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:08	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:08	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:08	1
Selenium	0.00157	J	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:08	1

Client Sample ID: Cell 3-131-S-3-4-221214 Lab Sample ID: 860-39397-12

Date Collected: 12/14/22 11:07 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00794	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:10	1
Barium	0.632	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:10	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:10	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:10	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:10	1

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00701	J	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 18:12	1
Barium	0.803	b	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 18:12	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 18:12	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Method: SW846 6020B - Metals (ICP/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 18:12	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 18:12	1

Client Sample ID: Cell 4-130-S-3-4-221214 Lab Sample ID: 860-39397-16

Date Collected: 12/14/22 12:22 **Matrix: Solid**
Date Received: 12/15/22 10:36 **Percent Solids: 96.2**

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.01	U	3.78	2.01	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Arsenic	**0.471**	**J**	3.78	0.189	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Barium	**29.5**		3.78	1.29	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Beryllium	0.189	U	1.89	0.189	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Cadmium	0.170	U	1.89	0.170	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Chromium	0.510	U	3.78	0.510	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Copper	**4.41**		3.78	0.378	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Iron	**238**		18.9	1.21	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Lead	**0.150**	**J**	1.89	0.123	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Manganese	**3.29**		1.89	0.179	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Selenium	0.293	U	1.89	0.293	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Silver	0.151	U	1.89	0.151	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Thallium	0.179	U	1.89	0.179	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Uranium	0.0945	U	0.945	0.0945	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10
Zinc	1.11	U	3.78	1.11	mg/Kg	☼	01/25/23 20:02	01/26/23 19:41	10

Method: SW846 6020B - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00173**	**J**	0.0200	0.00145	mg/L		02/02/23 10:30	02/02/23 19:08	1
Barium	**0.612**	**b**	0.0200	0.00671	mg/L		02/02/23 10:30	02/02/23 19:08	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		02/02/23 10:30	02/02/23 19:08	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		02/02/23 10:30	02/02/23 19:08	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		02/02/23 10:30	02/02/23 19:08	1

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00802	U H	0.0179	0.00802	mg/Kg	☼	01/26/23 08:36	01/26/23 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.8**				%			01/26/23 11:20	1
Percent Solids (EPA Moisture)	**96.2**				%			01/26/23 11:20	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-87428/1-A
Matrix: Solid
Analysis Batch: 87689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.197	U	0.370	0.197	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Arsenic	0.0185	U	0.370	0.0185	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Barium	0.127	U	0.370	0.127	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Beryllium	0.0185	U	0.185	0.0185	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Cadmium	0.0167	U	0.185	0.0167	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Chromium	0.0500	U	0.370	0.0500	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Copper	0.0370	U	0.370	0.0370	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Iron	0.119	U	1.85	0.119	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Lead	0.0120	U	0.185	0.0120	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Manganese	0.0176	U	0.185	0.0176	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Selenium	0.0287	U	0.185	0.0287	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Silver	0.0148	U	0.185	0.0148	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Thallium	0.0176	U	0.185	0.0176	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Uranium	0.00926	U	0.0926	0.00926	mg/Kg		01/25/23 20:02	01/26/23 19:02	1
Zinc	0.108	U	0.370	0.108	mg/Kg		01/25/23 20:02	01/26/23 19:02	1

Lab Sample ID: LCS 860-87428/2-A
Matrix: Solid
Analysis Batch: 87689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	9.80	8.880		mg/Kg		91	80 - 120
Arsenic	9.80	9.211		mg/Kg		94	80 - 120
Barium	9.80	9.127		mg/Kg		93	80 - 120
Beryllium	9.80	8.619		mg/Kg		88	80 - 120
Cadmium	9.80	9.314		mg/Kg		95	80 - 120
Chromium	9.80	9.348		mg/Kg		95	80 - 120
Copper	9.80	9.393		mg/Kg		96	80 - 120
Iron	49.0	46.14		mg/Kg		94	80 - 120
Lead	9.80	9.129		mg/Kg		93	80 - 120
Manganese	9.80	9.229		mg/Kg		94	80 - 120
Selenium	9.80	9.260		mg/Kg		94	80 - 120
Silver	4.90	4.744		mg/Kg		97	80 - 120
Thallium	9.80	9.146		mg/Kg		93	80 - 120
Uranium	2.45	2.310		mg/Kg		94	80 - 120
Zinc	9.80	9.304		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 860-87428/3-A
Matrix: Solid
Analysis Batch: 87689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	9.80	9.086		mg/Kg		93	80 - 120	2	20
Arsenic	9.80	9.266		mg/Kg		95	80 - 120	1	20
Barium	9.80	9.031		mg/Kg		92	80 - 120	1	20
Beryllium	9.80	8.840		mg/Kg		90	80 - 120	3	20
Cadmium	9.80	9.293		mg/Kg		95	80 - 120	0	20
Chromium	9.80	9.306		mg/Kg		95	80 - 120	0	20
Copper	9.80	9.350		mg/Kg		95	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39397-2

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-87428/3-A
Matrix: Solid
Analysis Batch: 87689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	49.0	46.19		mg/Kg		94	80 - 120	0	20
Lead	9.80	9.173		mg/Kg		94	80 - 120	0	20
Manganese	9.80	9.381		mg/Kg		96	80 - 120	2	20
Selenium	9.80	9.134		mg/Kg		93	80 - 120	1	20
Silver	4.90	4.749		mg/Kg		97	80 - 120	0	20
Thallium	9.80	9.236		mg/Kg		94	80 - 120	1	20
Uranium	2.45	2.326		mg/Kg		95	80 - 120	1	20
Zinc	9.80	9.268		mg/Kg		95	80 - 120	0	20

Lab Sample ID: MB 860-87821/1-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:04	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:04	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:04	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:04	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:04	1

Lab Sample ID: LCS 860-87821/2-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09378		mg/L		94	80 - 120
Barium	0.100	0.08947		mg/L		89	80 - 120
Cadmium	0.100	0.09575		mg/L		96	80 - 120
Chromium	0.100	0.09441		mg/L		94	80 - 120
Selenium	0.100	0.09445		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-87821/3-A
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87821

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09352		mg/L		94	80 - 120	0	20
Barium	0.100	0.09179		mg/L		92	80 - 120	3	20
Cadmium	0.100	0.09547		mg/L		95	80 - 120	0	20
Chromium	0.100	0.09350		mg/L		94	80 - 120	1	20
Selenium	0.100	0.09315		mg/L		93	80 - 120	1	20

Lab Sample ID: MB 860-88522/1-A
Matrix: Solid
Analysis Batch: 88639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		02/02/23 10:30	02/02/23 17:42	1
Barium	0.00134	U	0.00400	0.00134	mg/L		02/02/23 10:30	02/02/23 17:42	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		02/02/23 10:30	02/02/23 17:42	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-88522/1-A
Matrix: Solid
Analysis Batch: 88639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.000560	U	0.00400	0.000560	mg/L		02/02/23 10:30	02/02/23 17:42	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		02/02/23 10:30	02/02/23 17:42	1

Lab Sample ID: LCS 860-88522/2-A
Matrix: Solid
Analysis Batch: 88639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.09291		mg/L		93	80 - 120
Barium	0.100	0.09273		mg/L		93	80 - 120
Cadmium	0.100	0.09334		mg/L		93	80 - 120
Chromium	0.100	0.09369		mg/L		94	80 - 120
Selenium	0.100	0.09079		mg/L		91	80 - 120

Lab Sample ID: LCSD 860-88522/3-A
Matrix: Solid
Analysis Batch: 88639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88522

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.09307		mg/L		93	80 - 120	0	20
Barium	0.100	0.09215		mg/L		92	80 - 120	1	20
Cadmium	0.100	0.09345		mg/L		93	80 - 120	0	20
Chromium	0.100	0.09319		mg/L		93	80 - 120	1	20
Selenium	0.100	0.09309		mg/L		93	80 - 120	2	20

Lab Sample ID: LB 860-87757/1-B
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000290	U	0.00400	0.000290	mg/L		01/28/23 11:30	01/30/23 17:11	1
Barium	0.00134	U	0.00400	0.00134	mg/L		01/28/23 11:30	01/30/23 17:11	1
Cadmium	0.000240	U	0.00200	0.000240	mg/L		01/28/23 11:30	01/30/23 17:11	1
Chromium	0.000560	U	0.00400	0.000560	mg/L		01/28/23 11:30	01/30/23 17:11	1
Selenium	0.000266	U	0.00200	0.000266	mg/L		01/28/23 11:30	01/30/23 17:11	1

Lab Sample ID: LB 860-87764/1-C
Matrix: Solid
Analysis Batch: 88025

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 87821

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00145	U	0.0200	0.00145	mg/L		01/28/23 11:30	01/30/23 17:41	1
Barium	0.01996	J	0.0200	0.00671	mg/L		01/28/23 11:30	01/30/23 17:41	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		01/28/23 11:30	01/30/23 17:41	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		01/28/23 11:30	01/30/23 17:41	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		01/28/23 11:30	01/30/23 17:41	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LB 860-88392/1-C **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 88639 **Prep Batch: 88522**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00145	U	0.0200	0.00145	mg/L		02/02/23 10:30	02/02/23 19:01	1
Barium	0.03695		0.0200	0.00671	mg/L		02/02/23 10:30	02/02/23 19:01	1
Cadmium	0.00120	U	0.0100	0.00120	mg/L		02/02/23 10:30	02/02/23 19:01	1
Chromium	0.00280	U	0.0200	0.00280	mg/L		02/02/23 10:30	02/02/23 19:01	1
Selenium	0.00133	U	0.0100	0.00133	mg/L		02/02/23 10:30	02/02/23 19:01	1

Lab Sample ID: 860-39397-16 MS **Client Sample ID: Cell 4-130-S-3-4-221214**
Matrix: Solid **Prep Type: TCLP**
Analysis Batch: 88639 **Prep Batch: 88522**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00173	J	0.100	0.09121		mg/L		89	75 - 125
Barium	0.612	b	0.100	0.6910	4	mg/L		79	75 - 125
Cadmium	0.00120	U	0.100	0.08799		mg/L		88	75 - 125
Chromium	0.00280	U	0.100	0.09010		mg/L		90	75 - 125
Selenium	0.00133	U	0.100	0.08274		mg/L		83	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 860-87401/10-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 87608 **Prep Batch: 87401**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00785	U	0.0175	0.00785	mg/Kg		01/25/23 16:22	01/26/23 17:35	1

Lab Sample ID: LCS 860-87401/11-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 87608 **Prep Batch: 87401**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.179	0.1633		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 860-87401/12-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 87608 **Prep Batch: 87401**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.179	0.1663		mg/Kg		93	80 - 120	2	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-87562/1 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 87562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.008				%			01/26/23 11:20	1
Percent Solids	100				%			01/26/23 11:20	1

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 860-39397-16 DU **Client Sample ID: Cell 4-130-S-3-4-221214**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 87562

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	3.8			3.5		%				7	20
Percent Solids	96.2			96.5		%				0.2	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Metals

Prep Batch: 87401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	Total/NA	Solid	7471A	
MB 860-87401/10-A	Method Blank	Total/NA	Solid	7471A	
LCS 860-87401/11-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 860-87401/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Prep Batch: 87428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	Total/NA	Solid	3051A	
MB 860-87428/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-87428/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-87428/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	

Analysis Batch: 87608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	Total/NA	Solid	7471A	87401
MB 860-87401/10-A	Method Blank	Total/NA	Solid	7471A	87401
LCS 860-87401/11-A	Lab Control Sample	Total/NA	Solid	7471A	87401
LCSD 860-87401/12-A	Lab Control Sample Dup	Total/NA	Solid	7471A	87401

Analysis Batch: 87689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	Total/NA	Solid	6020B	87428
MB 860-87428/1-A	Method Blank	Total/NA	Solid	6020B	87428
LCS 860-87428/2-A	Lab Control Sample	Total/NA	Solid	6020B	87428
LCSD 860-87428/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	87428

Leach Batch: 87757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-87757/1-B	Method Blank	TCLP	Solid	1312	

Leach Batch: 87764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-6	Cell 2-40-S-3-4-221214	TCLP	Solid	1311	
860-39397-7	Cell 2-11-S-3-4-221214	TCLP	Solid	1311	
860-39397-10	Cell 3-78-S-3-4-221214	TCLP	Solid	1311	
860-39397-12	Cell 3-131-S-3-4-221214	TCLP	Solid	1311	
860-39397-13	Cell 4-38-S-3-4-221214	TCLP	Solid	1311	
LB 860-87764/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 87821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-6	Cell 2-40-S-3-4-221214	TCLP	Solid	3010A	87764
860-39397-7	Cell 2-11-S-3-4-221214	TCLP	Solid	3010A	87764
860-39397-10	Cell 3-78-S-3-4-221214	TCLP	Solid	3010A	87764
860-39397-12	Cell 3-131-S-3-4-221214	TCLP	Solid	3010A	87764
860-39397-13	Cell 4-38-S-3-4-221214	TCLP	Solid	3010A	87764
LB 860-87757/1-B	Method Blank	TCLP	Solid	3010A	87757
LB 860-87764/1-C	Method Blank	TCLP	Solid	3010A	87764
MB 860-87821/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Metals

Analysis Batch: 88025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-6	Cell 2-40-S-3-4-221214	TCLP	Solid	6020B	87821
860-39397-7	Cell 2-11-S-3-4-221214	TCLP	Solid	6020B	87821
860-39397-10	Cell 3-78-S-3-4-221214	TCLP	Solid	6020B	87821
860-39397-12	Cell 3-131-S-3-4-221214	TCLP	Solid	6020B	87821
860-39397-13	Cell 4-38-S-3-4-221214	TCLP	Solid	6020B	87821
LB 860-87757/1-B	Method Blank	TCLP	Solid	6020B	87821
LB 860-87764/1-C	Method Blank	TCLP	Solid	6020B	87821
MB 860-87821/1-A	Method Blank	Total/NA	Solid	6020B	87821
LCS 860-87821/2-A	Lab Control Sample	Total/NA	Solid	6020B	87821
LCSD 860-87821/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	87821

Leach Batch: 88392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	TCLP	Solid	1311	
LB 860-88392/1-C	Method Blank	TCLP	Solid	1311	
860-39397-16 MS	Cell 4-130-S-3-4-221214	TCLP	Solid	1311	

Prep Batch: 88522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	TCLP	Solid	3010A	88392
LB 860-88392/1-C	Method Blank	TCLP	Solid	3010A	88392
MB 860-88522/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-88522/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-88522/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	
860-39397-16 MS	Cell 4-130-S-3-4-221214	TCLP	Solid	3010A	88392

Analysis Batch: 88639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	TCLP	Solid	6020B	88522
LB 860-88392/1-C	Method Blank	TCLP	Solid	6020B	88522
MB 860-88522/1-A	Method Blank	Total/NA	Solid	6020B	88522
LCS 860-88522/2-A	Lab Control Sample	Total/NA	Solid	6020B	88522
LCSD 860-88522/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	88522
860-39397-16 MS	Cell 4-130-S-3-4-221214	TCLP	Solid	6020B	88522

General Chemistry

Analysis Batch: 87562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39397-16	Cell 4-130-S-3-4-221214	Total/NA	Solid	Moisture	
MB 860-87562/1	Method Blank	Total/NA	Solid	Moisture	
860-39397-16 DU	Cell 4-130-S-3-4-221214	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 2-40-S-3-4-221214 Lab Sample ID: 860-39397-6

Date Collected: 12/14/22 09:42 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:03	SHZ	EET HOU

Client Sample ID: Cell 2-11-S-3-4-221214 Lab Sample ID: 860-39397-7

Date Collected: 12/14/22 09:57 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:05	SHZ	EET HOU

Client Sample ID: Cell 3-78-S-3-4-221214 Lab Sample ID: 860-39397-10

Date Collected: 12/14/22 10:45 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:08	SHZ	EET HOU

Client Sample ID: Cell 3-131-S-3-4-221214 Lab Sample ID: 860-39397-12

Date Collected: 12/14/22 11:07 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:10	SHZ	EET HOU

Client Sample ID: Cell 4-38-S-3-4-221214 Lab Sample ID: 860-39397-13

Date Collected: 12/14/22 11:35 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	87764	01/27/23 15:00	EMC	EET HOU
							Completed:	01/28/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	87821	01/28/23 11:30	MD	EET HOU
TCLP	Analysis	6020B		1			88025	01/30/23 18:12	SHZ	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 4-130-S-3-4-221214 Lab Sample ID: 860-39397-16

Date Collected: 12/14/22 12:22 **Matrix: Solid**
Date Received: 12/15/22 10:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	88392	02/01/23 15:00	EMC	EET HOU
							Completed:	02/02/23 07:00 [1]		
TCLP	Prep	3010A			10 mL	50 mL	88522	02/02/23 10:30	MD	EET HOU
TCLP	Analysis	6020B		1			88639	02/02/23 19:08	SHZ	EET HOU
Total/NA	Analysis	Moisture		1			87562	01/26/23 11:20	JM	EET HOU

Client Sample ID: Cell 4-130-S-3-4-221214 Lab Sample ID: 860-39397-16

Date Collected: 12/14/22 12:22 **Matrix: Solid**
Date Received: 12/15/22 10:36 **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	3051A			.55 g	50 mL	87428	01/25/23 20:02	AGR	EET HOU
Total/NA	Analysis	6020B		10			87689	01/26/23 19:41	DP	EET HOU
Total/NA	Prep	7471A			.58 g	50 mL	87401	01/26/23 08:36	MCA	EET HOU
Total/NA	Analysis	7471A		1			87608	01/26/23 17:55	SHZ	EET HOU

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39397-2
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET HOU
7471A	Mercury (CVAA)	SW846	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU
7471A	Preparation, Mercury	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 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: 860-39397-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39397-6	Cell 2-40-S-3-4-221214	Solid	12/14/22 09:42	12/15/22 10:36
860-39397-7	Cell 2-11-S-3-4-221214	Solid	12/14/22 09:57	12/15/22 10:36
860-39397-10	Cell 3-78-S-3-4-221214	Solid	12/14/22 10:45	12/15/22 10:36
860-39397-12	Cell 3-131-S-3-4-221214	Solid	12/14/22 11:07	12/15/22 10:36
860-39397-13	Cell 4-38-S-3-4-221214	Solid	12/14/22 11:35	12/15/22 10:36
860-39397-16	Cell 4-130-S-3-4-221214	Solid	12/14/22 12:22	12/15/22 10:36

Released to Imaging: 1/29/2025 3:31:29 PM

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39397-2

Login Number: 39397 **List Source: Eurofins Houston**
List Number: 1
Creator: Milone, Jeancarlo

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	
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	

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 1/24/2023 9:31:50 AM Revision 1

JOB DESCRIPTION

Chevron - Jal Land Farm Soils

JOB NUMBER

860-39457-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Released to Imaging: 1/29/2023 3:31:29 PM

my EOL

Eurofins Houston

Job Notes

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

Authorization



Generated
1/24/2023 9:31:50 AM
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: 860-39457-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

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
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: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

Laboratory: Eurofins Houston

Narrative

Job Narrative
860-39457-1

REVISION

The report being provided is a revision of the original report sent on 12/29/2022. The report (revision 1) is being revised due to analyte list changed for 8015GRO.

Report revision history

Receipt
The samples were received on 12/16/2022 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

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 U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

Client Sample ID: Cell20-Treatment-5-6-221215 Lab Sample ID: 860-39457-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	68.7		9.90	3.50	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell19-Treatment-5-6-221215 Lab Sample ID: 860-39457-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	37.2	J	50.5	34.9	mg/Kg	1		8015B	Total/NA
Chloride	39.6		9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell18-Treatment-5-6-221215 Lab Sample ID: 860-39457-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	57.4		52.5	36.3	mg/Kg	1		8015B	Total/NA
Oil Range Organics (C28-C36)	82.4		52.5	36.3	mg/Kg	1		8015B	Total/NA
Chloride	80.8		10.1	3.56	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell17-Treatment-5-6-221215 Lab Sample ID: 860-39457-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	37.8	J	51.8	35.8	mg/Kg	1		8015B	Total/NA
Oil Range Organics (C28-C36)	38.1	J	51.8	35.8	mg/Kg	1		8015B	Total/NA
Chloride	124		9.94	3.52	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell21-Treatment-5-6-221215 Lab Sample ID: 860-39457-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	78.0		48.5	33.6	mg/Kg	1		8015B	Total/NA
Oil Range Organics (C28-C36)	80.7		48.5	33.6	mg/Kg	1		8015B	Total/NA
Chloride	89.0		9.92	3.51	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell25-Treatment-5-6-221215 Lab Sample ID: 860-39457-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	50.4		48.0	33.2	mg/Kg	1		8015B	Total/NA
Oil Range Organics (C28-C36)	50.6		48.0	33.2	mg/Kg	1		8015B	Total/NA
Chloride	70.0		9.96	3.53	mg/Kg	1		300.0	Total/NA

Client Sample ID: Cell 26-Treatment-5-6-221215 Lab Sample ID: 860-39457-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10 - C28]	385		48.8	33.8	mg/Kg	1		8015B	Total/NA
Oil Range Organics (C28-C36)	379		48.8	33.8	mg/Kg	1		8015B	Total/NA
Chloride	81.7		9.98	3.53	mg/Kg	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Treatment-5-6-221215 Lab Sample ID: 860-39457-1

Date Collected: 12/15/22 09:01 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.48	U	9.90	2.48	mg/Kg		12/20/22 11:03	12/20/22 13:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/20/22 11:03*	*12/20/22 13:41*	*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]	35.1	U	50.8	35.1	mg/Kg		12/19/22 08:55	12/20/22 11:53	1
Oil Range Organics (C28-C36)	35.1	U	50.8	35.1	mg/Kg		12/19/22 08:55	12/20/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*39 - 120*	*12/19/22 08:55*	*12/20/22 11:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.7**		9.90	3.50	mg/Kg		12/22/22 16:19	12/23/22 05:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.5**				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	**97.5**				%			12/20/22 09:48	1

Client Sample ID: Cell19-Treatment-5-6-221215 Lab Sample ID: 860-39457-2

Date Collected: 12/15/22 09:25 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.53	U	10.1	2.53	mg/Kg		12/20/22 11:03	12/20/22 14:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/22 11:03*	*12/20/22 14:12*	*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]	**37.2**	**J**	50.5	34.9	mg/Kg		12/19/22 08:55	12/20/22 12:20	1
Oil Range Organics (C28-C36)	34.9	U	50.5	34.9	mg/Kg		12/19/22 08:55	12/20/22 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*77*		*39 - 120*	*12/19/22 08:55*	*12/20/22 12:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.6**		9.96	3.53	mg/Kg		12/22/22 16:19	12/23/22 05:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.3**				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	**97.7**				%			12/20/22 09:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Treatment-5-6-221215 Lab Sample ID: 860-39457-3

Date Collected: 12/15/22 09:49 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.51	U	10.0	2.51	mg/Kg		12/20/22 11:03	12/20/22 14:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 11:03*	*12/20/22 14:43*	*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]	57.4		52.5	36.3	mg/Kg		12/19/22 08:55	12/20/22 12:47	1
Oil Range Organics (C28-C36)	82.4		52.5	36.3	mg/Kg		12/19/22 08:55	12/20/22 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*75*		*39 - 120*	*12/19/22 08:55*	*12/20/22 12:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.8		10.1	3.56	mg/Kg		12/22/22 16:19	12/23/22 06:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	97.0				%			12/20/22 09:48	1

Client Sample ID: Cell17-Treatment-5-6-221215 Lab Sample ID: 860-39457-4

Date Collected: 12/15/22 10:18 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.51	U	10.0	2.51	mg/Kg		12/20/22 11:03	12/20/22 15:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*12/20/22 11:03*	*12/20/22 15:15*	*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]	37.8	J	51.8	35.8	mg/Kg		12/19/22 09:32	12/19/22 16:25	1
Oil Range Organics (C28-C36)	38.1	J	51.8	35.8	mg/Kg		12/19/22 09:32	12/19/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*39 - 120*	*12/19/22 09:32*	*12/19/22 16:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		9.94	3.52	mg/Kg		12/22/22 16:19	12/23/22 06:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.4				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	97.6				%			12/20/22 09:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Treatment-5-6-221215 Lab Sample ID: 860-39457-5

Date Collected: 12/15/22 10:49 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.53	U	10.1	2.53	mg/Kg		12/20/22 11:03	12/20/22 15:47	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 11:03*	*12/20/22 15:47*	*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]	**78.0**		48.5	33.6	mg/Kg		12/19/22 09:32	12/19/22 17:46	1
Oil Range Organics (C28-C36)	**80.7**		48.5	33.6	mg/Kg		12/19/22 09:32	12/19/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*85*		*39 - 120*	*12/19/22 09:32*	*12/19/22 17:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.0**		9.92	3.51	mg/Kg		12/22/22 16:19	12/23/22 06:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.2**				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	**97.8**				%			12/20/22 09:48	1

Client Sample ID: Cell25-Treatment-5-6-221215 Lab Sample ID: 860-39457-6

Date Collected: 12/15/22 11:08 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	2.52	U	10.1	2.52	mg/Kg		12/20/22 11:03	12/20/22 16:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*12/20/22 11:03*	*12/20/22 16:18*	*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]	**50.4**		48.0	33.2	mg/Kg		12/19/22 09:32	12/19/22 18:13	1
Oil Range Organics (C28-C36)	**50.6**		48.0	33.2	mg/Kg		12/19/22 09:32	12/19/22 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*85*		*39 - 120*	*12/19/22 09:32*	*12/19/22 18:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.0**		9.96	3.53	mg/Kg		12/22/22 16:19	12/23/22 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.6**				%			12/20/22 09:48	1
Percent Solids (EPA Moisture)	**97.4**				%			12/20/22 09:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

Client Sample ID: Cell 26-Treatment-5-6-221215

Lab Sample ID: 860-39457-7
Matrix: Solid
Date Collected: 12/15/22 11:26
Date Received: 12/16/22 11:07

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	2.48	U	9.90	2.48	mg/Kg		12/20/22 11:03	12/20/22 16:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/20/22 11:03*	*12/20/22 16:49*	*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]	**385**		48.8	33.8	mg/Kg		12/19/22 09:32	12/19/22 18:40	1
Oil Range Organics (C28-C36)	**379**		48.8	33.8	mg/Kg		12/19/22 09:32	12/19/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*39 - 120*	*12/19/22 09:32*	*12/19/22 18:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.7**		9.98	3.53	mg/Kg		12/22/22 16:19	12/23/22 07:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.1**				%			12/20/22 13:34	1
Percent Solids (EPA Moisture)	**98.9**				%			12/20/22 13:34	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

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)
860-39457-1	Cell20-Treatment-5-6-221215	96
860-39457-2	Cell19-Treatment-5-6-221215	98
860-39457-3	Cell18-Treatment-5-6-221215	101
860-39457-4	Cell17-Treatment-5-6-221215	99
860-39457-5	Cell21-Treatment-5-6-221215	100
860-39457-6	Cell25-Treatment-5-6-221215	95
860-39457-7	Cell 26-Treatment-5-6-221215	103
860-39457-7 MS	Cell 26-Treatment-5-6-221215	102
LCS 860-82741/4	Lab Control Sample	113
LCSD 860-82741/5	Lab Control Sample Dup	117
MB 860-82741/7	Method Blank	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(39-120)
860-39457-1	Cell20-Treatment-5-6-221215	69
860-39457-2	Cell19-Treatment-5-6-221215	77
860-39457-3	Cell18-Treatment-5-6-221215	75
860-39457-4	Cell17-Treatment-5-6-221215	76
860-39457-4 MS	Cell17-Treatment-5-6-221215	81
860-39457-4 MSD	Cell17-Treatment-5-6-221215	82
860-39457-5	Cell21-Treatment-5-6-221215	85
860-39457-6	Cell25-Treatment-5-6-221215	85
860-39457-7	Cell 26-Treatment-5-6-221215	82
LCS 240-556427/2-A	Lab Control Sample	66
LCS 240-556463/2-A	Lab Control Sample	75
MB 240-556427/1-A	Method Blank	58
MB 240-556463/1-A	Method Blank	71

Surrogate Legend

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

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

Lab Sample ID: 860-39457-7 MS
Matrix: Solid
Analysis Batch: 82741

Client Sample ID: Cell 26-Treatment-5-6-221215
Prep Type: Total/NA
Prep Batch: 82737

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

Lab Sample ID: MB 860-82741/7
Matrix: Solid
Analysis Batch: 82741

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			12/20/22 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		12/20/22 12:58	1

Lab Sample ID: LCS 860-82741/4
Matrix: Solid
Analysis Batch: 82741

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 860-82741/5
Matrix: Solid
Analysis Batch: 82741

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 240-556427/1-A
Matrix: Solid
Analysis Batch: 556826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		12/19/22 08:55	12/21/22 12:06	1
Oil Range Organics (C28-C36)	34.6	U	50.0	34.6	mg/Kg		12/19/22 08:55	12/21/22 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	58		39 - 120	12/19/22 08:55	12/21/22 12:06	1

Lab Sample ID: LCS 240-556427/2-A
Matrix: Solid
Analysis Batch: 556826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]			250	155.5		mg/Kg		62	49 - 120		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

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

Lab Sample ID: LCS 240-556427/2-A
Matrix: Solid
Analysis Batch: 556826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556427

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	66		39 - 120

Lab Sample ID: MB 240-556463/1-A
Matrix: Solid
Analysis Batch: 556434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 556463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		12/19/22 09:32	12/19/22 15:31	1
Oil Range Organics (C28-C36)	34.6	U	50.0	34.6	mg/Kg		12/19/22 09:32	12/19/22 15:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		39 - 120	12/19/22 09:32	12/19/22 15:31	1

Lab Sample ID: LCS 240-556463/2-A
Matrix: Solid
Analysis Batch: 556434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 556463

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]			250	164.0		mg/Kg		66	49 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	75		39 - 120

Lab Sample ID: 860-39457-4 MS
Matrix: Solid
Analysis Batch: 556434

Client Sample ID: Cell17-Treatment-5-6-221215
Prep Type: Total/NA
Prep Batch: 556463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10 - C28]	37.8	J	251	216.6		mg/Kg		71	13 - 138		

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	81		39 - 120

Lab Sample ID: 860-39457-4 MSD
Matrix: Solid
Analysis Batch: 556434

Client Sample ID: Cell17-Treatment-5-6-221215
Prep Type: Total/NA
Prep Batch: 556463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10 - C28]	37.8	J	254	223.7		mg/Kg		73	13 - 138	3	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	82		39 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-83226/1-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.54	U	10.0	3.54	mg/Kg		12/22/22 16:19	12/23/22 01:44	1

Lab Sample ID: LCS 860-83226/2-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100.1		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 860-83226/3-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100.1		mg/Kg		100	80 - 120	0	20

Method: Moisture - Percent Moisture

Lab Sample ID: MB 860-82703/1
Matrix: Solid
Analysis Batch: 82703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.08				%			12/20/22 09:48	1
Percent Solids	99.9				%			12/20/22 09:48	1

Lab Sample ID: MB 860-82778/1
Matrix: Solid
Analysis Batch: 82778

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	0.0				%			12/20/22 13:34	1
Percent Solids	100.0				%			12/20/22 13:34	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Prep Batch: 82737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	5030C	
860-39457-7 MS	Cell 26-Treatment-5-6-221215	Total/NA	Solid	5030C	

Analysis Batch: 82741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	8015D	82737
MB 860-82741/7	Method Blank	Total/NA	Solid	8015D	
LCS 860-82741/4	Lab Control Sample	Total/NA	Solid	8015D	
LCSD 860-82741/5	Lab Control Sample Dup	Total/NA	Solid	8015D	
860-39457-7 MS	Cell 26-Treatment-5-6-221215	Total/NA	Solid	8015D	82737

GC Semi VOA

Prep Batch: 556427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	3546	
MB 240-556427/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-556427/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 556434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	8015B	556463
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	8015B	556463
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	8015B	556463
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	8015B	556463
MB 240-556463/1-A	Method Blank	Total/NA	Solid	8015B	556463
LCS 240-556463/2-A	Lab Control Sample	Total/NA	Solid	8015B	556463
860-39457-4 MS	Cell17-Treatment-5-6-221215	Total/NA	Solid	8015B	556463
860-39457-4 MSD	Cell17-Treatment-5-6-221215	Total/NA	Solid	8015B	556463

Prep Batch: 556463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	3546	
MB 240-556463/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

GC Semi VOA (Continued)

Prep Batch: 556463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-556463/2-A	Lab Control Sample	Total/NA	Solid	3546	
860-39457-4 MS	Cell17-Treatment-5-6-221215	Total/NA	Solid	3546	
860-39457-4 MSD	Cell17-Treatment-5-6-221215	Total/NA	Solid	3546	

Analysis Batch: 556639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	8015B	556427
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	8015B	556427
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	8015B	556427

Analysis Batch: 556826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-556427/1-A	Method Blank	Total/NA	Solid	8015B	556427
LCS 240-556427/2-A	Lab Control Sample	Total/NA	Solid	8015B	556427

HPLC/IC

Analysis Batch: 83199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	300.0	83226
MB 860-83226/1-A	Method Blank	Total/NA	Solid	300.0	83226
LCS 860-83226/2-A	Lab Control Sample	Total/NA	Solid	300.0	83226
LCSD 860-83226/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	83226

Prep Batch: 83226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	300_Prep	
MB 860-83226/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-83226/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-83226/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

General Chemistry

Analysis Batch: 82703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-1	Cell20-Treatment-5-6-221215	Total/NA	Solid	Moisture	
860-39457-2	Cell19-Treatment-5-6-221215	Total/NA	Solid	Moisture	
860-39457-3	Cell18-Treatment-5-6-221215	Total/NA	Solid	Moisture	
860-39457-4	Cell17-Treatment-5-6-221215	Total/NA	Solid	Moisture	
860-39457-5	Cell21-Treatment-5-6-221215	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

General Chemistry (Continued)

Analysis Batch: 82703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-6	Cell25-Treatment-5-6-221215	Total/NA	Solid	Moisture	
MB 860-82703/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 82778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-39457-7	Cell 26-Treatment-5-6-221215	Total/NA	Solid	Moisture	
MB 860-82778/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Treatment-5-6-221215 Lab Sample ID: 860-39457-1

Date Collected: 12/15/22 09:01 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 13:41	AN	EET HOU
Total/NA	Prep	3546			9.84 g	5 mL	556427	12/19/22 08:55	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556639	12/20/22 11:53	EPF	EET CAN
Total/NA	Prep	300_Prep			5.05 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 05:41	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell19-Treatment-5-6-221215 Lab Sample ID: 860-39457-2

Date Collected: 12/15/22 09:25 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 14:12	AN	EET HOU
Total/NA	Prep	3546			9.91 g	5 mL	556427	12/19/22 08:55	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556639	12/20/22 12:20	EPF	EET CAN
Total/NA	Prep	300_Prep			5.02 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 05:53	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell18-Treatment-5-6-221215 Lab Sample ID: 860-39457-3

Date Collected: 12/15/22 09:49 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 14:43	AN	EET HOU
Total/NA	Prep	3546			9.52 g	5 mL	556427	12/19/22 08:55	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556639	12/20/22 12:47	EPF	EET CAN
Total/NA	Prep	300_Prep			4.97 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 06:29	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell17-Treatment-5-6-221215 Lab Sample ID: 860-39457-4

Date Collected: 12/15/22 10:18 **Matrix: Solid**
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 15:15	AN	EET HOU
Total/NA	Prep	3546			9.65 g	5 mL	556463	12/19/22 09:32	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556434	12/19/22 16:25	EPF	EET CAN
Total/NA	Prep	300_Prep			5.03 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 06:40	A1S	EET HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 860-39457-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Treatment-5-6-221215
Lab Sample ID: 860-39457-4
Date Collected: 12/15/22 10:18
Matrix: Solid
Date Received: 12/16/22 11:07

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			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell21-Treatment-5-6-221215
Lab Sample ID: 860-39457-5
Date Collected: 12/15/22 10:49
Matrix: Solid
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 15:47	AN	EET HOU
Total/NA	Prep	3546			10.30 g	5 mL	556463	12/19/22 09:32	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556434	12/19/22 17:46	EPF	EET CAN
Total/NA	Prep	300_Prep			5.04 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 06:52	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell25-Treatment-5-6-221215
Lab Sample ID: 860-39457-6
Date Collected: 12/15/22 11:08
Matrix: Solid
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 16:18	AN	EET HOU
Total/NA	Prep	3546			10.41 g	5 mL	556463	12/19/22 09:32	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556434	12/19/22 18:13	EPF	EET CAN
Total/NA	Prep	300_Prep			5.02 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 07:04	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82703	12/20/22 09:48	JM	EET HOU

Client Sample ID: Cell 26-Treatment-5-6-221215
Lab Sample ID: 860-39457-7
Date Collected: 12/15/22 11:26
Matrix: Solid
Date Received: 12/16/22 11:07

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	82737	12/20/22 11:03	MTMG	EET HOU
Total/NA	Analysis	8015D		50	5 mL	5 mL	82741	12/20/22 16:49	AN	EET HOU
Total/NA	Prep	3546			10.24 g	5 mL	556463	12/19/22 09:32	AJ	EET CAN
Total/NA	Analysis	8015B		1	1 mL	1 mL	556434	12/19/22 18:40	EPF	EET CAN
Total/NA	Prep	300_Prep			5.01 g	50 mL	83226	12/22/22 16:19	ALL	EET HOU
Total/NA	Analysis	300.0		1			83199	12/23/22 07:16	A1S	EET HOU
Total/NA	Analysis	Moisture		1			82778	12/20/22 13:34	JM	EET HOU

Laboratory References:
EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 860-39457-1
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	08-04-23
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	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-27-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Laboratory: Eurofins Canton

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	2927	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	12-28-22
Iowa	State	421	01-08-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Michigan	State	9135	02-27-23
Minnesota	NELAP	039-999-348	12-21-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 860-39457-1

Method	Method Description	Protocol	Laboratory
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAN
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
Moisture	Percent Moisture	EPA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	EET HOU
3546	Microwave Extraction	SW846	EET CAN
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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: 860-39457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-39457-1	Cell20-Treatment-5-6-221215	Solid	12/15/22 09:01	12/16/22 11:07
860-39457-2	Cell19-Treatment-5-6-221215	Solid	12/15/22 09:25	12/16/22 11:07
860-39457-3	Cell18-Treatment-5-6-221215	Solid	12/15/22 09:49	12/16/22 11:07
860-39457-4	Cell17-Treatment-5-6-221215	Solid	12/15/22 10:18	12/16/22 11:07
860-39457-5	Cell21-Treatment-5-6-221215	Solid	12/15/22 10:49	12/16/22 11:07
860-39457-6	Cell25-Treatment-5-6-221215	Solid	12/15/22 11:08	12/16/22 11:07
860-39457-7	Cell 26-Treatment-5-6-221215	Solid	12/15/22 11:26	12/16/22 11:07

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jerry Silvergreen	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14534-5161 1
Client Contact: Sarah Johnson	Phone: 432-288-0576	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jerry Silvergreen	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 DRO [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO,[C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
Cell 20-Treatment-5-6-221215	12/5/22	0901	G	Solid			X	X	X		2	
Cell 19-Treatment-5-6-221215	12/5/22	0925	C	Solid			X	X	X		2	
Cell 18-Treatment-5-6-221215	12/5/22	0949	C	Solid			X	X	X		2	
Cell 17-Treatment-5-6-221215	12/5/22	1018	C	Solid			X	X	X		2	
Cell 21-Treatment-5-6-221215	12/5/22	1049	C	Solid			X	X	X		2	
Cell 25-Treatment-5-6-221215	12/5/22	1107	C	Solid			X	X	X		2	
Cell 26-Treatment-5-6-221215	12/5/22	1126	C	Solid			X	X	X		2	
				Solid								
				Solid								
				Solid								
				Solid								

860-39457 Chain of Custody

Temp: 1.8 IR ID.HOU-343
C/F: +0.3 1.8
Corrected Temp. 2.1

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

Possible Hazard Identification
Δ Non-Hazard Δ Flammable Δ Skin Irritant Δ Poison B Δ Unknown Δ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Δ Return To Client Δ Disposal By Lab Δ 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
		12/5/22 1455	ARCADIS			
	Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 11/16/22 1107	Company E
	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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jerry Silvergreen	Lab PM: Kudchadkar Sachin G	Carrier Tracking No(s):	COC No: 860-14534-5161 1
Client Contact: Sarah Johnson	Phone: 432-288-0576	E-Mail: Sachin.Kudchadkar@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: ARCADIS U S. 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 #: Purchase Order Requested			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron Jal Land Farm Soils	Project #: 86001348			
Site: Jerry Silvergreen	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 [C10-C28]/ ORO [C28-C36]	300_ORGFM_28D Chloride	8015D_GRO,[C6-C10]	8260C- BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:												
Cell 20-Treatment-5-6-221215	12/15/22	0901	G	Solid			X	X	X		2	
Cell 19-Treatment-5-6-221215	12/15/22	0925	C	Solid			X	X	X		2	
Cell 18-Treatment-5-6-221215	12/15/22	0949	C	Solid			X	X	X		2	
Cell 17-Treatment-5-6-221215	12/15/22	1018	C	Solid			X	X	X		2	
Cell 21-Treatment-5-6-221215	12/15/22	1049	C	Solid			X	X	X		2	
Cell 25-Treatment-5-6-221215	12/15/22	1107	C	Solid			X	X	X		2	
Cell 26-Treatment-5-6-221215	12/15/22	1126	C	Solid			X	X	X		2	
				Solid								
				Solid								
				Solid								
				Solid								

860-39457 Chain of Custody

Temp: 1.8 IR ID.HOU-343
C/F +0.3
Corrected Temp. 2.1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time: 12/15/22 1455	Company: ARCADIS	Received by:	Date/Time:	Company
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 11/16/22 1107	Company E
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 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

2.2/2.1

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-20309.1
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 #: 860-39457-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 1/3/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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:

E 147

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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Treatment-5-6-221215 (860-39457-1)	12/15/22	09:01 Central		Solid			X	1	
Cell19-Treatment-5-6-221215 (860-39457-2)	12/15/22	09:25 Central		Solid			X	1	
Cell18-Treatment-5-6-221215 (860-39457-3)	12/15/22	09:49 Central		Solid			X	1	
Cell17-Treatment-5-6-221215 (860-39457-4)	12/15/22	10:18 Central		Solid			X	1	
Cell21-Treatment-5-6-221215 (860-39457-5)	12/15/22	10:49 Central		Solid			X	1	
Cell25-Treatment-5-6-221215 (860-39457-6)	12/15/22	11:08 Central		Solid			X	1	
Cell 26-Treatment-5-6-221215 (860-39457-7)	12/15/22	11:26 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: 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: YCRS	Date/Time: 12/16/22 1830	Company	Received by: Tammy Doga	Date/Time: 12-17-22 1100	Company CETNC
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: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client ETA Site Name _____ Cooler unpacked by: Nancy Daza

Cooler Received on 12-17-22 Opened on 12-17-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 1A ~~Foam Box~~ Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # IR-13 (CF **-0.2** °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN # IR-16 (CF **-0.1**°C) Observed Cooler Temp. 2.2 °C Corrected Cooler Temp. 2.1 °C

IR GUN # IR-17 (CF **-0.3**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC291590**
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Released to Imaging: 1/29/2025 3:31:29 PM
Received by OCD: 7/18/2023 11:20:27 AM

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

2.2/2.1

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 860-20309.1
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 #: 860-39457-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 1/3/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(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:

E 147

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/3546 (MOD) Diesel Range Organics [C10-C28]	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Treatment-5-6-221215 (860-39457-1)	12/15/22	09:01 Central		Solid			X	1	
Cell19-Treatment-5-6-221215 (860-39457-2)	12/15/22	09:25 Central		Solid			X	1	
Cell18-Treatment-5-6-221215 (860-39457-3)	12/15/22	09:49 Central		Solid			X	1	
Cell17-Treatment-5-6-221215 (860-39457-4)	12/15/22	10:18 Central		Solid			X	1	
Cell21-Treatment-5-6-221215 (860-39457-5)	12/15/22	10:49 Central		Solid			X	1	
Cell25-Treatment-5-6-221215 (860-39457-6)	12/15/22	11:08 Central		Solid			X	1	
Cell 26-Treatment-5-6-221215 (860-39457-7)	12/15/22	11:26 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: 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: YCRS	Date/Time: 12/16/22 1830	Company	Received by: Tammy Doga	Date/Time: 12-17-22 1100	Company CETNC
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: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client ETA Site Name_____ Cooler unpacked by: Nancy Daza

Cooler Received on 12-17-22 Opened on 12-17-22

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # 1A ~~Foam Box~~ Client Cooler Box Other_____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other_____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. 2.2 °C Corrected Cooler Temp. 2.1 °C

IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC291590
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s):_____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 860-39457-1

Login Number: 39457 **List Source: Eurofins Houston**
List Number: 1
Creator: Rubio, Yuri

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

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 241477

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 241477
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
jeffrey.harrison	2022 Annual Report accepted for records retention only. Releases to vadose zone at landfarm cells being addressed and remediated under incident # NAPP2113741693.	1/29/2025