Armando Martinez
Operations Lead, Portfolio Operations Central

July 19, 2021

Mr. Brad Jones
Environmental Scientist Specialist – Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Chevron Jal Landfarm (Permit NM2-0012), Lea County, New Mexico 2020 Annual Report

Mr. Jones:

Chevron Environmental Management Company (CEMC) is continuing to manage ongoing activities at the Chevron Jal Landfarm (NM2-0012) located in Lea County, New Mexico. As part of the that ongoing work at the Jal Landfarm, and in accord with the permit requirements, we are submitting for your review and comment the following document (in electronic Adobe PDF format):

2020 Annual Report dated July 2021

This report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of CEMC to document annual activities performed for CEMC during the calendar year 2020 at the above referenced project site. One complete electronic copy is being provided via the online pay portal as previously requested by the NMOCD.

Please note that I am the new Project Manager for this site. Should you have any questions or require additional information please contact me at (505) 690 5408 or you can reach me via email at amarti@chevron.com.

Respectfully,

Armando Martinez

cc: Mr. Steve Rice, Project Manager, Arcadis
Ms. Alison Schaffer, Staff Scientist, Arcadis

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ARCADIS

Chevron Environmental Management Company

2020 Annual Report

Jal Landfarm (NM-02-0012)

Centralized Surface Waste Management Facility

Lea County, New Mexico

July 2021

2020 Annual Report

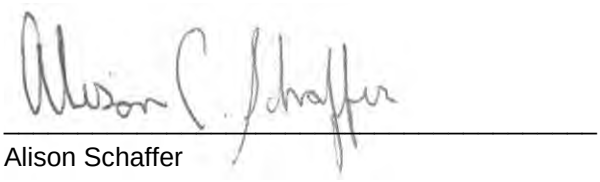
Jal Landfarm (NM-02-0012)
Centralized Surface Waste Management Facility
Lea County, New Mexico

July 2021

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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.
TestAmerica	TestAmerica Laboratories, 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 2020 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. Field activities performed in 2020 were conducted in accordance with the requirements of permit NM-02-0012 and provision 19.15.36.20 of Part 36 (Transitional Provisions).

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 2020, 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 site inspections to assess site conditions
- Perform biweekly (i.e., every two weeks) tilling of select cells to enhance bioremediation of impacted soils
- Remove standing water from active cells within 24 hours of discovery
- Perform quarterly vadose zone monitoring and semiannual treatment zone monitoring
- Perform release response soil sampling if a potential release is identified, as defined by provision 19.15.36.15.E(5) NMAC
- Maintain records of the site remediation activities and monitoring reports.

This 2020 Annual Report summarizes the 2020 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 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] 2017b).

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 for cells 22, 23, and 24 because the treatment zone closure performance standards 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 March 12 and June 27, 2019, Arcadis (on behalf of CEMC) submitted a Background Sampling and Analysis Plan (Background SAP; Arcadis 2020a) and a Minor Permit Modification Request (Arcadis 2020c) to the NMOCD, respectively. The Background SAP presents a sampling and analysis plan for establishing site background soil concentrations in accordance with provision 19.15.26.15(B) NMAC. The Minor Permit Modification Request was required to request that all future site activities be conducted in accordance with Part 36 requirements in lieu of requirements of the Transitional Provisions. The NMOCD approved the Background SAP (Arcadis 2020a) and Minor Permit Modification Request (Arcadis 2020c) on August 14 and December 24, 2020, respectively.

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2 2020 Operation and Maintenance Activities

Operation and maintenance activities performed at the Site in 2020 consisted of weekly site inspections, removal of standing water (as needed), and biweekly tilling of the active cells. These activities are consistent with those required by permit NM-02-0012 and the Transitional Provisions.

Weekly inspections were performed at the Site 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 weekly site inspections indicated that site features and equipment remained intact and in good working order throughout the year. To prevent potential pooling of surface water in active cells, precipitation forecasts and actual precipitation accumulation measurements were tracked daily. Following large precipitation events, field staff were sent onsite to verify whether standing water was present in active cells. If recoverable water was observed, vacuum trucks were brought onsite to remove the water to the extent practicable.

In addition to performing weekly site inspections, active cells 17, 18, 19, 20, 21, 25, and 26 were tilled biweekly.

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3 2020 Monitoring Activities

Monitoring activities performed at the Site in 2020 consisted of the following soil sampling events:

- *First quarter 2020*. Vadose zone sampling (March 2020) and release response sampling (April 2020).
- *Second quarter 2020*. Vadose zone sampling (June 2020), treatment zone sampling (June 2020), and release response sampling (August 20120).
- *Third quarter 2020*. Vadose zone sampling (September 2020).
- *Fourth quarter 2020*. Vadose zone sampling and treatment zone sampling (December 2020).

The vadose zone, treatment zone, and release response 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 2020 Soil Sampling Events

Task	Vadose Zone Sampling	Treatment Zone Sampling	Release Response Sampling
Sampling frequency	Quarterly	Semiannually	Quarterly (if a potential release is identified)
Number of samples collected	1 discrete sample 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)
Sample depth	2 to 3 feet below native ground surface	0 to 1 foot below ground surface	2 to 3 feet below native ground surface
Analyses performed	Quarterly: TPH, BTEX Semiannually: Chloride Annually: Major cations/anions, WQCC metals	Semiannually: TPH, chloride	Quarterly: TPH, BTEX, chloride, constituents in Subsections A and B of provision 20.6.2.3103 NMAC

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

3.1 Vadose Zone Sampling

Quarterly vadose zone sampling was performed on March 26 (first quarter 2020), June 25 (second quarter 2020), September 24 (third quarter 2020), and December 10 (fourth quarter 2020). During each sampling event, one randomly selected discrete soil sample was 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 2 to 3 feet below native ground surface. The vadose zone sample locations for each quarter are shown on Figures 2, 3, 4, and 5.

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 was then used to remove an additional 2½ feet of native soil, comprised primarily of clayey sands and caprock caliche, from the sample location. Once the desired sample depth was achieved, the backhoe was used to collect representative soil from the vadose zone and the soil sample was then collected from this representative vadose zone soil. Soil samples were placed into 4-ounce laboratory-supplied sample jars, which were labelled and shipped on ice to TestAmerica Laboratories, Inc. (TestAmerica), located in Houston, Texas, for laboratory analysis.

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

Soil samples were analyzed for the following constituents:

- Quarterly:
  - TPH as diesel range organics (DRO), gasoline range organics (GRO), and oil range organics (ORO) by United States Environmental Protection Agency (USEPA) Method 8015B. TPH is represented as the sum of the DRO, GRO, and ORO fractions.
  - BTEX by USEPA Method 8260B.
- Semiannually (second and fourth quarters 2020):
  - Chloride by USEPA Method 300.0.
- Annually (fourth quarter 2020):
  - Cations (calcium, magnesium, potassium, and sodium) and anions (cyanide, fluoride, nitrate, and sulfate) by USEPA Methods 6010B, 300.0, and 9012B.
  - WQCC metals listed in Subsections A and B of provision 20.6.2.3103 NMAC by USEPA Method 6020A (mercury was analyzed by USEPA Method 7471A).

3.2 Treatment Zone Sampling

Semiannual treatment zone sampling was performed on June 26 (second quarter 2020) and December 9 (fourth quarter 2020). 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 second and fourth quarters 2020 are shown on Figures 3 and 5, respectively.

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 TestAmerica, located in Houston, 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:

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

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3.3 Release Response Sampling

Release response sampling events were 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”. In June 1998, a background soil sample was collected from the center of the Site at a depth of 2 to 2.5 feet below native ground surface. The sample was analyzed for TPH (GRO fraction), major cations and anions, BTEX, and heavy metals (Texaco Exploration & Production, Inc. 1998). The analytical results from the background soil sample, presented in Table 2 below, are considered background soil concentrations presently and are used to determine whether a release has occurred. Representative background soil concentrations have not yet been established for DRO and ORO fractions; therefore, detections of DRO or GRO above the sample detection limit (SDL) indicate that a release has occurred.

Table 2. 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

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” (19.15.36.15.E(5) NMAC).

Results of the vadose zone sampling in the first and second quarters of 2020 showed that TPH (DRO and/or ORO fractions) and/or chloride were detected at concentrations greater than the SDL or background soil concentration; therefore, the release response process was initiated. CEMC notified the NMOCD of the exceedances, and release response sampling events were performed in April and August 2020. After the second quarter release response event the NMOCD advised Arcadis that impacts to the vadose zone would need to assessed and characterized under Part 29 in the future, while still adhering to Part 36. Release response sampling was not performed during the third and fourth quarters of 2020 as the guidelines on how to proceed under both Parts 29 and Part 36 was not yet developed. The policy determination outlining the process on how to address a release to the vadose zone at a Part 36 landfarm pursuant to Part 29 was adopted on April 21, 2021

(NMOCD 2021). Table 3, below, shows the dates of the vadose zone and release response sampling events and the cells where potential releases were identified each quarter.

During each release response sampling event, four randomly selected discrete soil samples were collected from the vadose zone of cells where the potential release was identified. Samples were collected using the same methodology as described in Section 3.1 The release response sampling locations for the first and second quarters of 2020 are shown on Figures 2 and 3, respectively.

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 Method 8260B.
- Chloride by USEPA Method 300.0.
- Constituents listed in Subsections A and B of 20.6.2.3103 NMAC.

Due to a misinterpretation of the Part 36 regulations, only a subset of constituents from Subsections A and B of provision 20.6.2.3103 NMAC were analyzed during the first quarter 2020 release response sampling event. In second quarter 2020, the entire list of constituents from Subsections A and B of provision 20.6.2.3103 NMAC, including toxic pollutants, were analyzed for during the release response event.

Table 3. Summary of Vadose Zone and Release Response Sampling Events

Quarter	Vadose Zone Sampling Event	Potential Releases (TPH, BTEX, or chloride detections that exceeded the background soil concentrations or SDL)	Release Response Sampling Event
First quarter 2020	March 26, 2020	Cell 17 (DRO, ORO) Cell 18 (DRO, ORO) Cell 19 (DRO) Cell 20 (DRO) Cell 21 (DRO) Cell 25 (DRO, ORO) Cell 26 (DRO, ORO)	April 29, 2020
Second quarter 2020	June 25, 2020	Cell 17 (chloride) Cell 18 (ORO, chloride) Cell 19 (DRO, ORO) Cell 20 (DRO) Cell 21 (DRO)	August 6 - 7, 2020
Third quarter 2020	September 24, 2020	Cell 17 (DRO, ORO) Cell 18 (DRO, ORO) Cell 19 (DRO, ORO) Cell 20 (DRO, ORO) Cell 21 (DRO, ORO) Cell 25 (DRO, ORO) Cell 26 (DRO, ORO)	Not performed
Fourth quarter 2020	December 10, 2020	Cell 17 (chloride) Cell 18 (chloride) Cell 19 (chloride) Cell 20 (chloride)	Not performed

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4 2020 Monitoring Results

This section discusses the results of the 2020 vadose zone, treatment zone, and release response soil sampling events.

4.1 Vadose Zone Sampling Results

Analytical results from the quarterly vadose zone sampling events are provided in Tables 4, 5, 6, and 7. Laboratory reports are provided in Appendix B.

As discussed in Section 3.3 and specified in provision 19.15.36.15(E)(5) NMAC, vadose zone analytical results were compared to the higher of the SDL or the 1998 background soil concentrations. The 2020 results are summarized in Table 3 and the list below.

- *TPH*. DRO and/or ORO were detected at concentrations greater than the SDL in cells 17, 18, 19, 20, 21, 25, and 26. GRO concentrations were less than the background soil concentration in all cells.
- *BTEX*. BTEX concentrations were less than the background soil concentrations in all cells.
- *Chloride*. Chloride was detected at concentrations greater than the background soil concentration in cells 17, 18, 19, and 20.
- *Cations and anions (fourth quarter 2020).* Calcium, magnesium, sodium, fluoride, nitrate, and sulfate were detected at concentrations greater than the background soil concentrations in all cells. Cyanide concentrations were greater than the SDL in cells 17, 19, and 25.
- *WQCC metals (fourth quarter 2020)*. Metals, as listed below, were detected at concentrations greater than the background soil concentration or SDL in Cells 17, 18, 19, 20, 21, 25, and/or 26:
  - Barium, copper, iron, manganese, and zinc: Cells 17, 18, 19, 20, 21, 25, and 26
  - Antimony: Cell 18

4.2 Treatment Zone Sampling Results

Analytical results from the semiannual treatment zone sampling events are provided in Tables 8 and 9. Laboratory reports are provided in Appendix B.

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 10, below.

During the June (second quarter 2020) and December (fourth quarter 20120) 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.

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Table 10. 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

4.3 Release Response Sampling Results

Analytical results from the release response sampling events are provided in Tables 11 through 25. Laboratory reports are provided in Appendix B.

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 1998 background soil concentrations or SDL. The 2020 results are summarized below and in Table 26, below.

- *TPH*: DRO concentrations were detected above the SDL in Cells 17, 19, 25, and 26. ORO concentrations were detected above the SDL in Cells 17, 18, 19, 20, 21, 25, and 26. GRO concentrations were below the background soil concentration in all cells.
- *BTEX*: BTEX concentrations were below the background soil concentrations in all cells.
- *Chloride*: Chloride concentrations were detected above the background soil concentration in Cells 17, 18, 20, 21, and 26.
- *Constituents listed in Subsections A and B (see Table 26 below):*
  - Metals, as listed below, were detected at concentrations greater than the background soil concentration or SDL in Cells 17, 18, 19, 20, 21, 25, and/or 26:
    - Barium, iron, manganese, and uranium: Cells 17, 18, 19, 20, 21, 25, and 26
    - Beryllium and lead: Cells 19, 25, and 26
    - Arsenic: Cells 18, 20, and 21
    - Chromium: Cells 18, 19, 25, and 26
    - Zinc: Cells 19, 20, 21, 25, and 26
  - Volatile organic compound (VOC) methylene chloride was detected at concentrations greater than the SDL in Cells 17, 18, 19, 20, 21, 25, and 26. Chloroform was detected at concentrations greater than the SDL in Cells 17, 18, 19, 20, and 21. Trichloroethene was detected at a concentration greater than the SDL in Cell 20.
  - Semi-volatile organic compounds (SVOCs), as listed below, were detected at concentrations greater than the SDL in Cells 17, 18, 19, 20, 21, 25, and/or 26:
    - 1-Methyl-naphthalene and 2-Methyl-naphthalene: Cells 17, 18, 19, 20, 21, 25, and 26
    - Acenaphthene: Cells 19 and 21

  - Acenaphthylene: Cell 19
  - Anthracene: Cells 17 and 19
  - Benzo(a)anthracene: Cells 18 and 26
  - Benzo(a)pyrene, Benzo(b)fluoranthene and chrysene: Cells 18 and 21
  - Bis(2-ethylhexyl) phthalate and Di-n-butylphthalate: Cells 17, 18,19, 20, 21
  - Dimethyl phthalate and N-nitrosdi-n-butylamine: Cell 18
  - Fluoranthene: Cells 18 and 19
  - Fluorene and pyrene: Cells 18, 19, and 21
  - Naphthalene: Cells 17, 18, 19, 21, and 25.
  - Phenanthrene: Cells 17, 18, 19, and 21
- Polychlorinated biphenyl (PCB) concentrations were below the SDL in all cells.
- The following constituents, as listed below, were detected at concentrations greater than the background soil concentration or SDL in Cells 17, 18, 19, 20, 21, 25, and/or 26:
  - Nitrate, sulfate, fluoride, and total dissolved solids (TDS): Cells 17, 18, 19, 20, 21, 25, and 26.
  - Cyanide: Cells 17, 18, 19, 25, and 26.
  - Nitrite: Cell 19
  - Phenols: Cells 17, 18, 19, 20, 21, and 26.
  - Perchlorate: Cells 17, 18, 19, 20, 21
- Radium, including combined Radium-226 and Radium-228, was detected above the minimum detectable concentration in all cells.
- Pesticide concentrations were below the SDL in all cells.

Arcadis (on behalf of CEMC) submitted a Release Response Sampling Results and Action Plan to the NMOCD on August 4 and December 15, 2020 (Arcadis 2020b, 2020d). Each report summarizes the vadose zone and 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.

Table 26. Summary of Constituents Listed in Subsections A and B That Exceeded the Background Soil Concentration or SDL

Cell	Metals	VOCs	SVOCs	PCBs	Other Constituents	Radium	Pesticides
Cell 17	Barium, iron, manganese, uranium	Chloroform, Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Anthracene, Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, Naphthalene, Phenanthrene	None	Nitrate, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 18	Arsenic, barium, chromium, iron, manganese, uranium	Chloroform, Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, Chrysene, Dimethyl phthalate, Fluoranthene, Fluorene, N-nitrosdi-n-butylamine, Naphthalene, Phenanthrene, Pyrene	None	Nitrate, nitrite, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 19	Barium, beryllium, chromium, iron, lead, manganese, uranium, zinc	Chloroform, Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Acenaphthene, Acenaphthylene, Anthracene, Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, Pyrene	None	Nitrate, sulfate, fluoride, cyanide, phenols, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 20	Arsenic, barium, iron, manganese, uranium, zinc	Chloroform, Methylene chloride, Trichloroethene	1-Methyl-naphthalene, 2-Methyl-naphthalene, Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate	None	Nitrate, sulfate, fluoride, phenols, TDS, perchlorate	Combined Radmium-226 + 228	None
Cell 21	Arsenic, barium, iron, manganese, uranium, zinc	Chloroform, Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Acenaphthene, Benzo(a)pyrene, Benzo(b)fluoranthene, Bis(2-ethylhexyl) phthalate, Di-n-butylphthalate, Chrysene, Fluorene, Naphthalene, Phenanthrene, Pyrene	None	Nitrate, sulfate, fluoride, phenols, TDS	Combined Radmium-226 + 228	None
Cell 25	Barium, beryllium, chromium, iron, lead, manganese, uranium, zinc	Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Naphthalene	None	Nitrate, sulfate, fluoride, cyanide, TDS	Combined Radmium-226 + 228	None
Cell 26	Barium, beryllium, chromium, iron, lead, manganese, uranium, zinc	Methylene chloride	1-Methyl-naphthalene, 2-Methyl-naphthalene, Benzo(a)anthracene	None	Nitrate, sulfate, fluoride, cyanide, phenols, TDS	Combined Radmium-226 + 228	None

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5 Summary

Field activities performed in 2020 were conducted in accordance with the requirements of permit NM-02-0012 and provision 19.15.36.20 of Part 36 (Transitional Provisions). Field activities consisted of weekly site inspections, removal of standing water (as needed), biweekly tilling of the active cells, quarterly vadose zone monitoring, semiannual treatment zone monitoring, and release response sampling.

Vadose zone analytical results indicated a potential release of DRO, ORO, and/or chloride into the vadose zone of active cells 17, 18, 19, 20, 21, 25, and/or 26; therefore, release response sampling events were subsequently performed in April and August 2020. After each release response sampling event, Arcadis (on behalf of CEMC) submitted a Release Response Sampling Results and Action Plan to the NMOCD, summarizing the vadose zone and release response sampling results, and the release response action plan to address the potential release.

Treatment zone analytical results were less than the closure performance standards for GRO and DRO combined fractions, TPH, and chloride.

The NMOCD approved the Background SAP (Arcadis 2020a) on August 14, 2020; therefore, representative background soil concentrations will be established for the Site in 2021. The NMOCD approved the Minor Permit Modification Request (Arcadis 2020c) on December 24, 2020. Starting in 2021, future site activities will be performed in accordance with Part 36 requirements in lieu of the Transitional Provisions.

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6 References

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Tables

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Table 4
March 2020 Vadose Zone Soil Analytical Results – First Quarter 2020
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes	
		Method	8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05	
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-Square200-S-2-3-200326	03/26/2020	481	--	0.585	U	28.8	--	510	--	0.000661	U	0.00279	J	0.00107	U	0.00119	U
Cell 18	Vadose	Cell18-Square163-S-2-3-200326	03/26/2020	53.1	--	0.553	U	35.6	--	89.3	--	0.00372	J	0.00994	--	0.00107	U	0.00241	J
Cell 19	Vadose	Cell19-Square144-S-2-3-200326	03/26/2020	10.2	J	0.57	U	14.9	U	25.7	--	0.00226	J	0.00575	--	0.000872	U	0.00156	J
Cell 20	Vadose	Cell20-Square141-S-2-3-200326	03/26/2020	7.92	J	0.601	U	14.9	U	23.4	--	0.00716	--	0.0182	--	0.00115	J	0.0045	J
Cell 21	Vadose	Cell21-Square182-S-2-3-200326	03/26/2020	17.0	--	0.547	U	7.44	U	25.0	--	0.00106	J	0.00382	J	0.000869	U	0.000963	U
Cell 25	Vadose	Cell25-Square3-S-2-3-200326	03/26/2020	57.9	--	0.561	U	43.1	--	102	--	0.000615	U	0.00253	J	0.000995	U	0.00110	U
Cell 26	Vadose	Cell26-Square96-S-2-3-200326	03/26/2020	29.8	--	0.584	U	41.2	--	71.6	--	0.00276	J	0.00837	--	0.00098	U	0.00216	J

Notes:
[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).
1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
3. Detected values highlighted in grey exceed the SDL or background soil concentration.

Acronyms and Abbreviations:
-- = 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
RL = reporting limit
SDL = sample detection limit
TPH = total petroleum hydrocarbons

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 5
June 2020 Vadose Zone Soil Analytical Results – Second Quarter 2020
2020 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		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
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-Square46-S-2-3-200625	06/25/2020	2.14	U	0.743	U	6.25	U	9.13	--	0.000738	U	0.00162	U	0.00120	U	0.00132	U	367	--
Cell 18	Vadose	Cell18-Square31-S-2-3-200625	06/25/2020	2.24	U	0.752	U	13.6	--	16.6	--	0.000851	U	0.00186	U	0.00138	U	0.00153	U	163	--
Cell 19	Vadose	Cell19-Square82-S-2-3-200625	06/25/2020	6.10	J	0.820	U	11.4	--	18.3	--	0.000956	U	0.00209	U	0.00155	U	0.00171	U	5.50	J
Cell 20	Vadose	Cell20-Square152-S-2-3-200625	06/25/2020	4.31	J	0.759	U	6.95	U	12.0	--	0.000843	U	0.00185	U	0.00136	U	0.00151	U	5.58	J
Cell 21	Vadose	Cell21-Square73-S-2-3-200625	06/25/2020	8.01	--	0.853	U	7.02	U	15.9	--	0.000956	U	0.00209	U	0.00155	U	0.00171	U	4.04	J
Cell 25	Vadose	Cell25-Square106-S-2-3-200625	06/25/2020	2.15	U	0.734	U	6.30	U	9.18	--	0.000796	U	0.00174	U	0.00129	U	0.00143	U	4.77	J
Cell 26	Vadose	Cell26-Square66-S-2-3-200625	06/25/2020	2.23	U	0.745	U	6.51	U	9.49	--	0.000882	U	0.00193	U	0.00143	U	0.00158	U	4.81	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 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 SDL or background soil concentration.

Acronyms and Abbreviations:
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BTEX = benzene, toluene, ethylbenzene, and xylenes
DRO = diesel range organics
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J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.

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Table 6
September 2020 Vadose Zone Soil Analytical Results – Third Quarter 2020
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	DRO		GRO		ORO		TPH[a]		Benzene		Toluene		Ethylbenzene		Xylenes	
		Method	8015B		8015B		8015B		8015B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05	
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	Cell 17-Square 24-S-3-4-200924	09/24/2020	6.77	J	0.620	U	49.3		56.69		0.000659	U	0.00144	U	0.00107	U	0.00118	U
Cell 18	Vadose	Cell 18-Square 131-S-3-4-200924	09/24/2020	34.2		0.577	U	133		167.8		0.000663	U	0.00145	U	0.00107	U	0.00119	U
Cell 19	Vadose	Cell 19-Square 156-S-3-4-200924	09/24/2020	14.6		0.563	U	77.1		92.26		0.000695	U	0.00152	U	0.00113	U	0.00125	U
Cell 20	Vadose	Cell 20-Square 12-S-3-4-200924	09/24/2020	4.31	J	0.611	U	29.3		34.22		0.000651	U	0.00143	U	0.00105	U	0.00117	U
Cell 21	Vadose	Cell 21-Square 23-S-3-4-200924	09/24/2020	61.4		0.580	U	230		291.4		0.000631	U	0.00138	U	0.00102	U	0.00113	U
Cell 25	Vadose	Cell 25- Square 163-S-3-4-200924	09/24/2020	7.10	J	0.553	U	51.8		59.45		0.000670	U	0.00147	U	0.00109	U	0.00120	U
Cell 26	Vadose	Cell 26-Square112-S-3-4-200924	09/24/2020	7.23	J	0.600	U	52.1		59.93		0.000612	U	0.00134	U	0.00099	U	0.00110	U

Notes:
[a] TPH is the sum of the DRO, GRO, and ORO fractions (note that nondetect values are included in the summation at the SDL).
1. Nondetect values are reported to the SDL specified in the laboratory reports.
2. In accordance with 19.15.36.15(E)(2) NMAC, vadose zone analytical results are compared to the higher of the SDL or the background soil concentration.
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-- = not applicable
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NMAC = New Mexico Administrative Code
ORO = oil range organics
RL = reporting limit
SDL = sample detection limit
TPH = total petroleum hydrocarbons

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.

Table 7
December 2020 Vadose Zone Soil Analytical Results – Fourth Quarter 2020
2020 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		300.0	
		Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations		--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
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-Square179-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000207	U	0.00238	J	0.000661	J	0.00352		78.7	
Cell 18	Vadose	Cell18-Square74-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000205	U	0.00171	J	0.000526	J	0.00212		37.8	
Cell 19	Vadose	Cell19-Square79-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000207	U	0.00175	J	0.00052	J	0.00187		12.5	
Cell 20	Vadose	Cell20-Square92-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000389	J	0.00337	J	0.000968	J	0.00452		18.2	
Cell 21	Vadose	Cell21-Square40-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000408	J	0.00289	J	0.000686	J	0.00243		8.46	J
Cell 25	Vadose	Cell25-Square107-S-2-3-201210	12/10/2020	14.9	U	14.9	U	14.9	U	44.7	U	0.000259	J	0.00212	J	0.000677	J	0.00229		8.93	J
Cell 26	Vadose	Cell26-Square36-S-2-3-201210	12/10/2020	15.0	U	15.0	U	15.0	U	45.0	U	0.000207	U	0.00162	J	0.000570	J	0.00194		9.26	J

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Table 7
December 2020 Vadose Zone Soil Analytical Results – Fourth Quarter 2020
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

	Calcium 6010B mg/kg		Magnesium 6010B mg/kg		Potassium 6010B mg/kg		Sodium 6010B mg/kg		Cyanide 9012B mg/kg		Fluoride 300.0 mg/kg		Nitrate 300.0 mg/kg		Sulfate 300.0 mg/kg		Antimony 6010B mg/kg	
	800.0		49.0		39.0		5.1		--		1.7		2.2		15.0		--	
Landfarm Cell	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	182,000	D	2,580		--		197		0.0690		2.32	J	16.1	K	36.5		0.106	U
Cell 18	174,000	D	2,180		--		395		0.0298	U	6.18		32.7	K	130		0.119	J
Cell 19	237,000	D	2,520		--		262		0.166		5.89		17.5	K	289		0.110	U
Cell 20	149,000	D	1,760		--		209		0.0297	U	3.28	J	26.7	K	571		0.114	U
Cell 21	268,000	D	1,810		--		178		0.0297	U	4.17	J	6.00	K	88.0		0.112	U
Cell 25	228,000	D	2,990		--		185		0.0616		3.96	J	8.17	K	58.3		0.108	U
Cell 26	333,000	D	2,620		--		225		0.0297	U	6.82		12.5	K	95.7		0.114	U

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Table 7
December 2020 Vadose Zone Soil Analytical Results – Fourth Quarter 2020
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Lea County, New Mexico

	Arsenic 6010B mg/kg		Barium 6010B mg/kg		Beryllium 6010B mg/kg		Cadmium 6010B mg/kg		Chromium 6010B mg/kg		Copper 6010B mg/kg		Iron 6010B mg/kg		Lead 6010B mg/kg		Manganese 6010B mg/kg	
	< 5.0		45.0		--		< 2.0		6.1		--		--		< 5.0		--	
Landfarm Cell	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	2.98	J	197		0.165	U	0.104	U	1.48	J	1.2	J	1,360	D	0.999	J	15.6	
Cell 18	2.58	J	292		0.175	U	0.109	U	2.79	J	1.31	J	2,600	D	2.03		28.3	
Cell 19	2.83	J	254		0.171	U	0.107	U	2.79	J	1.39	J	2,410	D	1.64	J	23.4	
Cell 20	2.93	J	264		0.178	U	0.112	U	4.65		2.43	J	3,900	D	2.64		38.8	
Cell 21	2.46	J	239		0.175	U	0.109	U	2.41	J	1.38	J	2,120	D	1.45	J	19.3	
Cell 25	2.51	J	472		0.168	U	0.105	U	1.81	J	1.58	J	1,350	D	0.807	J	14.1	
Cell 26	2.82	J	169		0.178	U	0.112	U	3.01	J	1.92	J	2,770	D	1.99		35.9	

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December 2020 Vadose Zone Soil Analytical Results – Fourth Quarter 2020
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Lea County, New Mexico

	Mercury 7471A mg/kg		Selenium 6010B mg/kg		Silver 6010B mg/kg		Thallium 6010B mg/kg		Zinc 6010B mg/kg	
	< 0.25		< 5.0		< 5.0		--		--	
Landfarm Cell	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	0.00843	J	0.443	U	0.142	U	0.213	U	6.37	
Cell 18	0.0131	J	0.468	U	0.15	U	0.225	U	10.7	
Cell 19	0.0149	J	0.459	U	0.147	U	0.221	U	11.9	
Cell 20	0.0120	J	0.477	U	0.153	U	0.23	U	13.2	
Cell 21	0.0160	J	0.468	U	0.15	U	0.225	U	8.62	
Cell 25	0.00767	J	0.451	U	0.144	U	0.217	U	6.47	
Cell 26	0.0182		0.477	U	0.153	U	0.230	U	13.9	

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Table 7
December 2020 Vadose Zone Soil Analytical Results – Fourth Quarter 2020
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

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 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 SDL or background soil concentration.

Acronyms and Abbrev

-- = 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

Qualifier
s:

D = The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
K = Sample analyzed outside of recommended hold time.
U = Analyte was not detected at or above the SDL.

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Table 8
June 2020 Treatment Zone Soil Analytical Results – Second Quarter 2020
2020 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	Cell17-Treatment-S-6-200626	06/26/2020	26.9	--	0.618	U	111	--	139	--	37.7	--
Cell 18	Treatment	Cell18-Treatment-S-6-200626	06/26/2020	42.7	--	0.634	U	173	--	216	--	2.29	J
Cell 19	Treatment	Cell19-Treatment-S-6-200626	06/26/2020	25.7	--	0.625	U	125	--	151	--	3.38	J
Cell 20	Treatment	Cell20-Treatment-S-6-200626	06/26/2020	13.2	--	0.600	U	63.5	--	77.3	--	5.23	--
Cell 21	Treatment	Cell21-Treatment-S-6-200626	06/26/2020	118	--	0.618	U	429	--	548	--	2.74	J
Cell 25	Treatment	Cell25-Treatment-S-6-200626	06/26/2020	1.74	U	0.598	U	5.09	U	7.43	--	33.0	--
Cell 26	Treatment	Cell26-Treatment-S-6-200626	06/26/2020	1.74	U	0.584	U	5.1	U	7.40	--	2.57	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
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.

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Table 9
December 2020 Treatment Zone Soil Analytical Results – Fourth Quarter 2020
2020 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	Cell17-Treatment-5-6-201209	12/09/2020	88.9		28.3	BJ	29.5	J	146.7		15.4	
Cell 18	Treatment	Cell18-Treatment-5-6-201209	12/09/2020	92.6		45.0	BJ	42.5	J	180.1		0.858	UX
Cell 19	Treatment	Cell19-Treatment-5-6-201209	12/09/2020	45.2	J	19.1	BJ	16.2	J	80.5		0.867	J
Cell 20	Treatment	Cell20-Treatment-5-6-201209	12/09/2020	43.1	J	25.2	BJ	15.0	U	83.3		1.75	J
Cell 21	Treatment	Cell21-Treatment-5-6-201209	12/09/2020	109		21.8	BJ	42.7	J	173.5		0.858	U
Cell 25	Treatment	Cell25-Treatment-5-6-201209	12/09/2020	88.5		32.7	BJ	38.1	J	159.3		3.89	J
Cell 26	Treatment	Cell26-Treatment-5-6-201209	12/09/2020	213		105	B	100		418.0		0.862	U

Notes:

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

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

Acronyms and Abbreviations:

-- = not applicable
DRO = diesel range organics
GRO = gasoline range organics
ID = identification
mg/kg = milligrams per kilogram
MS/MSD = matrix spike/matrix spike duplicate
NMAC = New Mexico Administrative Code
ORO = oil range organics
QC = quality control
RL = reporting limit
SDL = sample detection limit
TPH = total petroleum hydrocarbon

Qualifiers:

J = The target analyte was positively identified below the quantitation limit and above the detection limit.
U = Analyte was not detected.
B = A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
X = In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

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Table 11
April 2020 Release Response Soil Analytical Results – TPH, BTEX, and Chloride
2020 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		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentrations	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
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-129-S-2-3-200429	04/29/2020	1.87	U	0.602	U	10.4	--	12.9	--	0.000748	U	0.00164	U	0.00121	U	0.00134	U	186	--
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	2.02	U	0.670	U	14.2	--	16.9	--	0.000819	U	0.00179	U	0.00133	U	0.00147	U	19.1	--
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	1.91	U	0.685	U	11.5	--	14.1	--	0.000772	U	0.00169	U	0.00125	U	0.00138	U	13.6	--
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	5.06	J	0.675	U	5.67	U	11.4	--	0.000738	U	0.00162	U	0.00119	U	0.00132	U	13.1	--
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	2.44	U	0.856	U	15.8	--	19.1	--	0.000916	U	0.00389	J	0.00148	U	0.00164	U	4.90	J
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	2.15	U	0.742	U	13.9	--	16.8	--	0.000811	U	0.00178	U	0.00131	U	0.00146	U	3.71	J
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	2.10	U	0.747	U	13.2	--	16.0	--	0.000778	U	0.00170	U	0.00126	U	0.00140	U	28.8	--
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	2.23	U	0.766	U	14.2	--	17.2	--	0.000842	U	0.00371	J	0.00136	U	0.00151	U	2.81	J
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	1.86	U	0.611	U	14.1	--	16.6	--	0.000762	U	0.00167	U	0.00123	U	0.00137	U	4.57	--
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	1.88	U	0.641	U	5.51	U	8.0	--	0.000684	U	0.00548	--	0.00111	U	0.00248	J	4.63	--
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	9.22	--	0.762	U	18.9	--	28.9	--	0.000787	U	0.00172	U	0.00127	U	0.00141	U	4.23	J
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	4.24	J	0.810	U	17.8	--	22.9	--	0.000812	U	0.00178	U	0.00132	U	0.00146	U	6.30	--
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	1.98	U	0.675	U	13.4	--	16.1	--	0.000740	U	0.00570	J	0.00120	U	0.00259	J	3.48	J
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	1.98	U	0.731	U	10.8	--	13.5	--	0.000761	U	0.0111	--	0.00123	U	0.00344	J	2.93	J
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	2.15	U	0.773	U	13.4	--	16.3	--	0.000779	U	0.00636	--	0.00126	U	0.00290	J	14.4	--
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	1.97	U	0.728	U	12.7	--	15.4	--	0.000756	U	0.00613	--	0.00122	U	0.00269	J	5.11	--
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	2.21	U	0.730	U	15.1	--	18.0	--	0.000811	U	0.00329	J	0.00131	U	0.00145	U	2.66	J
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	2.03	U	0.705	U	13.5	--	16.2	--	0.000725	U	0.00159	U	0.00117	U	0.00130	U	2.63	J
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	2.11	U	0.768	U	6.18	U	9.1	--	0.000755	U	0.00258	J	0.00122	U	0.00135	U	2.46	J
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	2.18	U	0.765	U	6.39	U	9.3	--	0.000811	U	0.00343	J	0.00131	U	0.00146	U	26.2	--
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	3.58	J	0.679	U	12.9	--	17.2	--	0.00071	U	0.00155	U	0.00115	U	0.00127	U	2.27	J
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	7.34	--	0.742	U	11.7	--	19.8	--	0.000721	U	0.00158	U	0.00117	U	0.00129	U	2.24	J
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	19.1	--	0.675	U	11.7	--	31.5	--	0.000706	U	0.00155	U	0.00114	U	0.00127	U	2.24	J
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	1.96	U	0.668	U	5.72	U	8.3	--	0.000741	U	0.00162	U	0.00120	U	0.00133	U	2.58	J
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	5.09	J	0.703	U	10.7	--	16.5	--	0.000763	U	0.00167	U	0.00123	U	0.00137	U	21.6	--
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	1.95	U	0.0325	U	11.0	--	13.0	--	0.000682	U	0.00149	U	0.00110	U	0.00122	U	2.35	J
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	23.2	--	0.657	U	17.1	--	41.0	--	0.000747	U	0.00164	U	0.00121	U	0.00134	U	2.40	J
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	8.09	--	0.733	U	15.7	--	24.5	--	0.000799	U	0.00175	U	0.00129	U	0.00143	U	2.52	J

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 for TPH, BTEX, and chloride.
3. Detected values highlighted in grey exceed the SDL or background soil concentration.

Acronyms and Abbreviations:
-- = 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.

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Table 12
April 2020 Release Response Soil Analytical Results – Metals
2020 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 Concentration	--		< 5.0		45.0		--		< 2.0		6.1		--		--		< 5.0		--	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	1.88	U	3.75	U	319	--	0.375	U	0.225	U	4.22	U	--	--	3,830	--	2.45	J	50.8	--
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	2.16	U	4.32	U	341	--	0.432	U	0.259	U	4.86	U	--	--	2,550	--	1.40	J	25.8	--
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	1.94	U	3.88	U	130	--	0.388	U	0.233	U	4.37	U	--	--	2,130	--	1.48	J	20.0	--
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	2.03	U	4.32	J	414	--	0.406	U	0.243	U	4.56	U	--	--	1,980	--	1.33	J	20.1	--
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	2.73	U	5.78	J	727	--	0.547	U	0.328	U	6.15	U	--	--	4,450	--	2.85	J	29.7	--
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	2.35	U	4.70	U	291	--	0.470	U	0.282	U	5.29	U	--	--	2,690	--	2.02	J	21.5	--
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	2.30	U	4.59	U	112	--	0.459	U	0.276	U	5.17	U	--	--	2,470	--	1.85	J	18.7	--
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	2.23	U	4.45	U	388	--	0.445	U	0.267	U	5.01	U	--	--	2,120	--	1.39	U	16.2	--
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	2.09	U	4.18	U	334	--	0.418	U	0.251	U	4.70	U	--	--	1,870	--	1.31	U	24.7	--
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	2.16	U	4.31	U	324	--	0.431	U	0.259	U	4.85	U	--	--	1,990	B	1.35	U	18.2	--
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.255	U ^	4.12	--	84.3	--	0.699	--	0.0543	J	8.68	--	--	--	9,850	--	6.37	--	73.6	--
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	2.34	U	4.68	U	111	--	0.468	U	0.281	U	5.26	U	--	--	3,960	--	2.83	J	87.4	--
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	2.20	U	4.72	J	318	--	0.440	U	0.264	U	4.95	U	--	--	2,460	B	1.38	J	21.5	--
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	2.26	U	6.95	J	181	--	0.451	U	0.271	U	5.08	U	--	--	2,200	B	1.41	U	21.8	--
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	3.68	U	18.4	U	552	--	0.735	U	0.441	U	8.27	U	--	--	2,050	B	2.30	U	28.5	--
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	2.08	U	4.46	J	163	--	0.417	U	0.25	U	4.69	U	--	--	1,770	B	1.33	J	17.0	--
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	2.33	U	4.65	U	583	--	0.465	U	0.279	U	5.23	U	--	--	1,820	--	1.45	U	17.9	--
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	2.29	U	4.59	U	744	--	0.459	U	0.275	U	5.16	U	--	--	2,190	--	1.43	U	19.7	--
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	2.40	U	5.56	J	470	--	0.480	U	0.288	U	5.40	U	--	--	1,950	--	1.50	U	19.7	--
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	2.37	U	5.86	J	241	--	0.474	U	0.284	U	5.33	U	--	--	3,070	--	1.54	J	20.2	--
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	2.02	U	4.03	U	81.2	--	0.474	J	0.242	U	7.23	J	--	--	7,360	--	5.36	--	50.8	--
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.232	U ^	3.52	--	49.3	--	0.646	--	0.0429	J	8.58	--	--	--	10,300	--	5.65	--	59.4	--
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.216	U ^	3.47	--	49.7	--	0.606	--	0.0381	J	7.71	--	--	--	9,030	--	5.90	--	41.8	--
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	2.12	U	4.24	U	557	--	0.424	U	0.255	U	4.77	U	--	--	2,150	--	1.33	U	25.7	--
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	2.19	U	4.59	J	222	--	0.438	U	0.263	U	4.93	U	--	--	3,400	--	1.77	J	28.6	--
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	2.04	U	10.2	U	604	--	0.408	U	0.245	U	4.59	U	--	--	2,600	--	1.68	J	28.2	--
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	2.23	U	4.50	J	212	--	0.447	U	0.268	U	5.02	U	--	--	4,010	--	2.19	J	42.8	--
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.229	U ^	4.18	--	57.0	--	0.710	--	0.0388	J	9.18	--	--	--	11,400	--	6.28	--	61.7	--

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 background soil concentration or SDL.

-- = not applicable
CCV = continuing calibration verification
ICV = initial calibration verification
ID = identification
LCS = lab control sample
LCSD = lab control sample duplicate
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
QC = quality control

Qualifiers:

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
B = The compound was found in the blank and sample
U = Analyte was not detected at or above the SDL.
* = LCS or LCSD is outside acceptance limits.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

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Table 12
April 2020 Release Response Soil Analytical Results – Metals
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

Constituent			Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
Method			7471A		6020A		6010B		6010B		6010B		6010B	
Units			mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration			< 0.25		--		< 5.0		< 5.0		--		--	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	0.0114	U	0.375	U	3.00	U	0.704	U *	1.88	U	18.8	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.0121	U	0.581	J	3.46	U	0.810	U *	2.16	U	21.6	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.011	U	0.408	J	3.11	U	0.728	U *	1.94	U	19.4	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.0116	U	0.503	J	3.25	U	0.761	U *	2.03	U	20.3	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.0150	U	0.550	J	4.37	U	1.030	U	2.73	U	27.3	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.0151	J	0.470	U	3.76	U	0.882	U	2.35	U	23.5	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.0123	U	0.459	U	3.68	U	0.862	U	2.30	U	23.0	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.0136	U	0.459	J	3.56	U	0.835	U	2.23	U	22.3	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.0120	J	0.531	J	3.34	U	0.784	U	2.09	U	20.9	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.0105	J B	0.438	J	3.45	U	0.809	U	2.16	U	21.6	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.0135	U	0.226	--	0.577	J	0.0956	U	0.255	U	22.3	--
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.0133	U	0.468	U	3.74	U	0.877	U	2.34	U	23.4	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.0120	J B	0.524	J	3.52	U	0.826	U	2.20	U	22.7	J
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.0132	J B	0.826	J	3.61	U	0.846	U	2.26	U	22.6	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.0240	B	0.735	U	5.88	U	1.380	U	3.68	U	36.8	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.00961	J B	0.436	J	3.33	U	0.782	U	2.08	U	20.8	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.0132	U	0.558	J	3.72	U	0.872	U	2.33	U	28.5	J
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.0122	U	0.532	J	3.67	U	0.860	U	2.29	U	22.9	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.0159	J	0.568	J	3.84	U	0.899	U	2.40	U	24.0	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.0133	U	0.550	J	3.79	U	0.888	U	2.37	U	23.7	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.0111	J	0.403	U	3.23	U	0.756	U *	2.02	U	20.2	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.0119	U	0.309	--	0.606	--	0.0869	U	0.232	U	21.9	--
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.0110	U	0.185	--	0.589	--	0.0811	U	0.216	U	16.6	--
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.0115	U	0.513	J	3.39	U	0.796	U *	2.12	U	21.2	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.0115	U	0.519	J	3.50	U	0.821	U *	2.19	U	21.9	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.0117	U	0.498	J	3.27	U	0.766	U *	2.04	U	20.4	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.0122	J	0.572	J	3.57	U	0.837	U *	2.23	U	22.3	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.0358	U	0.269	--	0.185	--	0.0861	U	0.229	U	21.3	--

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 background soil concentration or SDL.

-- = not applicable
CCV = continuing calibration verification
ICV = initial calibration verification
ID = identification
LCS = lab control sample
LCSD = lab control sample duplicate
mg/kg = milligrams per kilogram
MQL = method quantitation limit
NMAC = New Mexico Administrative Code
SDL = sample detection limit
QC = quality control

Qualifiers:

J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
B = The compound was found in the blank and sample
U = Analyte was not detected at or above the SDL.
* = LCS or LCSD is outside acceptance limits.
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

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Table 13
April 2020 Release Response Soil Analytical Results – VOCs
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

			Constituent	1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1 Dichloroethene		1,2,4-Trichlorobenzene		1,2-Dichlorobenzene (o-		1,2-Dibromoethane	
			Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
			Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-129-S-2-3-200429	04/29/2020	0.000879	U	0.00103	U	0.000867	U	0.00103	U	0.00145	U	0.00234	U	0.00594	U	0.00121	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.000962	U	0.00113	U	0.000949	U	0.00113	U	0.00159	U	0.00256	U	0.00650	U	0.00133	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.000906	U	0.00107	U	0.000894	U	0.00107	U	0.00149	U	0.00241	U	0.00612	U	0.00125	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.000867	U	0.00102	U	0.000855	U	0.00102	U	0.00143	U	0.00231	U	0.00586	U	0.00119	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00108	U	0.00127	U	0.001060	U	0.00127	U	0.00177	U	0.00287	U	0.00727	U	0.00148	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.000953	U	0.00112	U	0.000940	U	0.00112	U	0.00157	U	0.00254	U	0.00644	U	0.00131	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.000914	U	0.00107	U	0.000901	U	0.00107	U	0.00151	U	0.00243	U	0.00617	U	0.00126	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.000989	U	0.00116	U	0.000976	U	0.00116	U	0.00163	U	0.00263	U	0.00668	U	0.00136	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.000895	U	0.00105	U	0.000883	U	0.00105	U	0.00148	U	0.00238	U	0.00605	U	0.00123	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.000803	U	0.000945	U	0.000793	U	0.000945	U	0.00132	U	0.00214	U	0.00543	U	0.00111	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.000924	U	0.00109	U	0.000912	U	0.00109	U	0.00152	U	0.00246	U	0.00624	U	0.00127	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.000954	U	0.00112	U	0.000941	U	0.00112	U	0.00157	U	0.00254	U	0.00645	U	0.00132	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.000869	U	0.00102	U	0.000857	U	0.00102	U	0.00143	U	0.00231	U	0.00587	U	0.00120	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.000894	U	0.00105	U	0.000882	U	0.00105	U	0.00147	U	0.00238	U	0.00604	U	0.00123	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.000915	U	0.00108	U	0.000902	U	0.00108	U	0.00151	U	0.00243	U	0.00618	U	0.00126	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.000888	U	0.00104	U	0.000876	U	0.00104	U	0.00146	U	0.00236	U	0.00600	U	0.00122	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.000953	U	0.00112	U	0.000940	U	0.00112	U	0.00157	U	0.00254	U	0.00644	U	0.00131	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.000852	U	0.00100	U	0.000840	U	0.00100	U	0.00140	U	0.00227	U	0.00575	U	0.00117	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.000887	U	0.00104	U	0.000875	U	0.00104	U	0.00146	U	0.00236	U	0.00599	U	0.00122	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.000953	U	0.00112	U	0.000940	U	0.00112	U	0.00157	U	0.00254	U	0.00644	U	0.00131	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.000834	U	0.00098	U	0.000822	U	0.00098	U	0.00137	U	0.00222	U	0.00563	U	0.00115	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.000847	U	0.000995	U	0.000835	U	0.000995	U	0.00140	U	0.00225	U	0.00572	U	0.00117	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.00083	U	0.000975	U	0.000818	U	0.000975	U	0.00137	U	0.00221	U	0.00561	U	0.00114	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.00087	U	0.00102	U	0.000858	U	0.00102	U	0.00143	U	0.00232	U	0.00588	U	0.00120	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.000896	U	0.00105	U	0.000884	U	0.00105	U	0.00148	U	0.00238	U	0.00605	U	0.00123	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.000801	U	0.000941	U	0.000790	U	0.000941	U	0.00132	U	0.00213	U	0.00541	U	0.00110	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.000878	U	0.00103	U	0.000866	U	0.00103	U	0.00145	U	0.00234	U	0.00593	U	0.00121	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.000938	U	0.00110	U	0.000925	U	0.00110	U	0.00155	U	0.00250	U	0.00634	U	0.00129	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

-- = 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.
B = The compound was found in the blank and sample
U = Analyte was not detected at or above the SDL.

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Table 13
April 2020 Release Response Soil Analytical Results – VOCs
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

			Constituent	1,2-Dichloroethane		1,2-Dichloropropane		1,4-Dichlorobenzene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Methylene chloride		Methyl-t-butyl ether	
			Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
			Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-129-S-2-3-200429	04/29/2020	0.00107	U	0.000843	U	0.000784	U	0.00134	U	0.000784	U	0.000986	U	0.00260	U	0.00217	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.00117	U	0.000923	U	0.000858	U	0.00147	U	0.000858	U	0.00108	U	0.00855	J B	0.00238	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.0011	U	0.00087	U	0.000808	U	0.00138	U	0.000808	U	0.00102	U	0.00790	J B	0.00224	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.00105	U	0.000832	U	0.000773	U	0.00132	U	0.000773	U	0.000972	U	0.00257	U	0.00214	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00131	U	0.00103	U	0.00096	U	0.00164	U	0.00096	U	0.00121	U	0.00936	J B	0.00266	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.00116	U	0.000914	U	0.00085	U	0.00146	U	0.00085	U	0.00107	U	0.00901	J B	0.00236	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.00111	U	0.000877	U	0.000815	U	0.0014	U	0.000815	U	0.00102	U	0.00270	U	0.00226	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.0012	U	0.000949	U	0.000882	U	0.00151	U	0.000882	U	0.00111	U	0.00935	J B	0.00245	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.00109	U	0.000859	U	0.000798	U	0.00137	U	0.000798	U	0.0010	U	0.00862	J B	0.00221	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.000977	U	0.000771	U	0.000717	U	0.00123	U	0.000717	U	0.000901	U	0.00664	J B	0.00199	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.00112	U	0.000887	U	0.000824	U	0.00141	U	0.000824	U	0.00104	U	0.00766	J B	0.00229	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.00116	U	0.000916	U	0.000851	U	0.00146	U	0.000851	U	0.00107	U	0.00821	J B	0.00236	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.00106	U	0.000834	U	0.000775	U	0.00133	U	0.000775	U	0.000975	U	0.00669	J B	0.00215	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.00109	U	0.000858	U	0.000797	U	0.00136	U	0.000797	U	0.00100	U	0.0079	J B	0.00221	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.00111	U	0.000878	U	0.000816	U	0.0014	U	0.000816	U	0.00103	U	0.00707	J B	0.00226	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.00108	U	0.000852	U	0.000792	U	0.00136	U	0.000792	U	0.000996	U	0.00749	J B	0.00220	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.00116	U	0.000914	U	0.00085	U	0.00145	U	0.00085	U	0.00107	U	0.00897	J B	0.00236	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.00104	U	0.000817	U	0.00076	U	0.0013	U	0.00076	U	0.000955	U	0.00793	J B	0.00211	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.00108	U	0.000851	U	0.000791	U	0.00135	U	0.000791	U	0.000995	U	0.00824	J B	0.00219	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.00116	U	0.000914	U	0.00085	U	0.00146	U	0.00085	U	0.00107	U	0.00866	J B	0.00236	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.00101	U	0.00080	U	0.000744	U	0.00127	U	0.000744	U	0.000935	U	0.00865	J B	0.00206	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.00103	U	0.000812	U	0.000755	U	0.00129	U	0.000755	U	0.00095	U	0.00823	J B	0.00209	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.00101	U	0.000796	U	0.00074	U	0.00127	U	0.00074	U	0.000931	U	0.00246	U	0.00205	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.00106	U	0.000835	U	0.000776	U	0.00133	U	0.000776	U	0.000976	U	0.00815	J B	0.00215	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.00109	U	0.000859	U	0.000799	U	0.00137	U	0.000799	U	0.00100	U	0.00806	J B	0.00222	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.000974	U	0.000768	U	0.000714	U	0.00122	U	0.000714	U	0.000898	U	0.00754	J B	0.00198	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.00107	U	0.000842	U	0.000783	U	0.00134	U	0.000783	U	0.000985	U	0.00805	J B	0.00217	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.00114	U	0.00090	U	0.000837	U	0.00143	U	0.000837	U	0.00105	U	0.00844	J B	0.00232	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

-- = 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:

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Table 13
April 2020 Release Response Soil Analytical Results – VOCs
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

			Constituent	Styrene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene		Vinyl chloride	
			Method	8260B		8260B		8260B		8260B		8260B	
			Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	0.000843	U	0.000843	U	0.00135	U	0.00166	U	0.00107	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.000923	U	0.000923	U	0.00148	U	0.00182	U	0.00117	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.00087	U	0.00087	U	0.0014	U	0.00171	U	0.00110	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.000832	U	0.000832	U	0.00134	U	0.00164	U	0.00105	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00103	U	0.00103	U	0.00166	U	0.00204	U	0.00131	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.000914	U	0.000914	U	0.00147	U	0.00180	U	0.00116	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.000877	U	0.000877	U	0.00141	U	0.00173	U	0.00111	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.000949	U	0.000949	U	0.00152	U	0.00187	U	0.00120	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.000859	U	0.000859	U	0.00138	U	0.00169	U	0.00109	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.000771	U	0.000771	U	0.00124	U	0.00152	U	0.000977	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.000887	U	0.000887	U	0.00142	U	0.00175	U	0.00112	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.000916	U	0.000916	U	0.00147	U	0.00181	U	0.00116	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.000834	U	0.000834	U	0.00134	U	0.00164	U	0.00106	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.000858	U	0.000858	U	0.00138	U	0.00228	J	0.00109	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.000878	U	0.000878	U	0.00141	U	0.00173	U	0.00111	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.000852	U	0.000852	U	0.00137	U	0.00168	U	0.00108	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.000914	U	0.000914	U	0.00147	U	0.0018	U	0.00116	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.000817	U	0.000817	U	0.00131	U	0.00161	U	0.00104	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.000851	U	0.000851	U	0.00137	U	0.00168	U	0.00108	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.000914	U	0.000914	U	0.00147	U	0.00180	U	0.00116	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.00080	U	0.00080	U	0.00128	U	0.00158	U	0.00101	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.000812	U	0.000812	U	0.00130	U	0.00160	U	0.00103	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.000796	U	0.000796	U	0.00128	U	0.00157	U	0.00101	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.000835	U	0.000835	U	0.00134	U	0.00165	U	0.00106	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.000859	U	0.000859	U	0.00138	U	0.00169	U	0.00109	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.000768	U	0.000768	U	0.00123	U	0.00151	U	0.000974	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.000842	U	0.000842	U	0.00135	U	0.00166	U	0.00107	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.00090	U	0.0009	U	0.00145	U	0.00177	U	0.00114	U

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Table 14
April 2020 Release Response Soil Analytical Results – SVOCs
2020 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		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h
		Method	8270C		8270C		8270C		8270C		8270C		8270C		8270C		8270C		8270C		827
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	0.0239	J	0.0421	--	0.00157	U	0.00109	U	0.0014	U	0.00549	U	0.00151	U	0.00176	U	0.00188	U	0.00554
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.00636	J	0.00846	J	0.0017	U	0.00118	U	0.00151	U	0.00593	U	0.00163	U	0.0019	U	0.00203	U	0.00599
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.00176	U	0.00307	U	0.00162	U	0.00112	U	0.00144	U	0.00563	U	0.00155	U	0.00181	U	0.00193	U	0.00569
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.00266	J	0.00309	U	0.00163	U	0.00113	U	0.0023	J	0.00567	U	0.00156	U	0.00182	U	0.00194	U	0.00573
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00305	J	0.00392	U	0.00206	U	0.00143	U	0.00183	U	0.00718	U	0.00198	U	0.0023	U	0.00246	U	0.00726
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.0145	J	0.0199	J	0.00182	U	0.00126	U	0.00162	U	0.00635	U	0.00175	U	0.00204	U	0.00218	U	0.00641
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.00327	J	0.00418	J	0.00177	U	0.00123	U	0.00157	U	0.00617	U	0.0017	U	0.00198	U	0.00212	U	0.00623
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.0757	--	0.0843	--	0.00189	U	0.00131	U	0.00168	U	0.00658	U	0.0156	J	0.0101	J	0.0157	J	0.00664
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.00801	J	0.00975	J	0.00157	U	0.00109	U	0.0014	U	0.00548	U	0.00151	U	0.00176	U	0.00188	U	0.00554
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.0171	J	0.0243	J	0.0162	J	0.0111	J	0.0234	J	0.00556	U	0.00153	U	0.00178	U	0.0019	U	0.00561
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.196	--	0.295	--	0.0019	U	0.00624	J	0.00169	U	0.00662	U	0.00182	U	0.00212	U	0.00227	U	0.00668
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.00398	J	0.00741	J	0.00195	U	0.00136	U	0.00174	U	0.00681	U	0.00187	U	0.00218	U	0.00233	U	0.00688
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.00246	J	0.00318	U	0.00167	U	0.00116	U	0.00149	U	0.00584	U	0.0016	U	0.00187	U	0.002	U	0.00589
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.00182	U	0.00318	U	0.00167	U	0.00116	U	0.00148	U	0.00582	U	0.0016	U	0.00187	U	0.00199	U	0.00588
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.00232	J	0.00394	J	0.00181	U	0.00126	U	0.00161	U	0.00632	U	0.00174	U	0.00203	U	0.00217	U	0.00639
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.00651	J	0.012	J	0.00167	U	0.00116	U	0.00148	U	0.00582	U	0.0016	U	0.00187	U	0.00199	U	0.00588
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.0147	J	0.0268	J	0.00186	U	0.00129	U	0.00165	U	0.00648	U	0.00178	U	0.00208	U	0.00222	U	0.00655
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.00188	U	0.00327	U	0.00172	U	0.0012	U	0.00153	U	0.00600	U	0.00165	U	0.00192	U	0.00206	U	0.00606
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.0173	J	0.0288	J	0.00741	J	0.00124	U	0.00159	U	0.00623	U	0.00171	U	0.00998	J	0.00246	J	0.00630
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.0243	J	0.0195	J	0.00185	U	0.00128	U	0.00164	U	0.00644	U	0.00177	U	0.00207	U	0.00221	U	0.00650
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.00176	U	0.00307	U	0.00161	U	0.00112	U	0.00143	U	0.00562	U	0.00155	U	0.0018	U	0.00193	U	0.00568
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.00893	J	0.0177	J	0.00171	U	0.00119	U	0.00152	U	0.00595	U	0.00164	U	0.00191	U	0.00204	U	0.00601
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.00306	J	0.00314	U	0.00165	U	0.00115	U	0.00147	U	0.00575	U	0.00158	U	0.00184	U	0.00197	U	0.00581
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.0029	J	0.00318	J	0.00165	U	0.00114	U	0.00146	U	0.00574	U	0.00158	U	0.00184	U	0.00197	U	0.00579
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.00181	U	0.00316	U	0.00166	U	0.00115	U	0.00148	U	0.00579	U	0.00159	U	0.00186	U	0.00199	U	0.00585
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.0053	J	0.0106	J	0.00164	U	0.00114	U	0.00146	U	0.00572	U	0.00157	U	0.00183	U	0.00196	U	0.00577
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.0018	U	0.00314	U	0.00165	U	0.00115	U	0.00147	U	0.00576	U	0.00158	U	0.00185	U	0.00197	U	0.00582
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.00456	J	0.0068	J	0.00171	U	0.00119	U	0.00152	U	0.00598	U	0.00301	J	0.00192	U	0.00205	U	0.00604

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SVOC = semi-volatile organic compound

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Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	i)perylene	Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)Pyrene		Naphthalene		Phenanthrene		Pyrene	
		Method	0C	8270C		8270C		8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-129-S-2-3-200429	04/29/2020	U	0.00163	U	0.00111	U	0.00397	U	0.00340	U	0.00258	U	0.0361	U	0.0361	J	0.00804	J	0.00200	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	U	0.00176	U	0.00120	U	0.00429	U	0.00367	U	0.00279	U	0.00159	U	0.0393	U	0.00584	U	0.00216	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	U	0.00167	U	0.00114	U	0.00407	U	0.00349	U	0.00265	U	0.00151	U	0.0374	U	0.00555	U	0.00205	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	U	0.00168	U	0.00115	U	0.00410	U	0.00351	U	0.00267	U	0.00152	U	0.0376	U	0.00559	U	0.00207	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	U	0.00213	U	0.00146	U	0.00520	U	0.00445	U	0.00338	U	0.00193	U	0.0477	U	0.00708	U	0.00262	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	U	0.00188	U	0.00129	U	0.00459	U	0.00393	U	0.00298	U	0.00171	U	0.0421	U	0.00697	J	0.00231	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	U	0.00183	U	0.00125	U	0.00446	U	0.00382	U	0.00290	U	0.00166	U	0.041	U	0.00609	U	0.00225	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	U	0.00195	U	0.0225	J	0.00476	U	0.0381	J	0.0188	J	0.0982	U	0.0982	--	0.0411	J	0.0147	J
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	U	0.00163	U	0.00111	U	0.00396	U	0.00340	U	0.00258	U	0.00147	U	0.0364	U	0.00541	U	0.00200	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	U	0.00165	U	0.00113	U	0.00402	U	0.0135	J	0.0233	J	0.00150	U	0.0369	U	0.0279	J	0.0131	J
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	U	0.00196	U	0.00134	U	0.00478	U	0.00410	U	0.0286	J	0.0555	U	0.0555	--	0.0559	--	0.00241	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	U	0.00202	U	0.00138	U	0.00492	U	0.00422	U	0.00320	U	0.00183	U	0.0452	U	0.00672	U	0.00268	J
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	U	0.00173	U	0.00119	U	0.00422	U	0.00361	U	0.00274	U	0.00157	U	0.0387	U	0.00575	U	0.00213	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	U	0.00173	U	0.00118	U	0.00421	U	0.00361	U	0.00274	U	0.00157	U	0.0386	U	0.00574	U	0.00212	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	U	0.00188	U	0.00129	U	0.00457	U	0.00392	U	0.00297	U	0.00170	U	0.042	U	0.00624	U	0.00231	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	U	0.00173	U	0.00118	U	0.00421	U	0.00361	U	0.00274	U	0.00157	U	0.0386	U	0.00574	U	0.00212	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	U	0.00192	U	0.00132	U	0.00469	U	0.00402	U	0.00305	U	0.0469	U	0.0469	--	0.00639	U	0.00236	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	U	0.00178	U	0.00122	U	0.00434	U	0.00372	U	0.00282	U	0.00161	U	0.0398	U	0.00592	U	0.00219	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	U	0.00185	U	0.00219	J	0.00451	U	0.00386	U	0.00293	U	0.00168	U	0.0414	U	0.0179	J	0.00512	J
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	U	0.00191	U	0.00131	U	0.00466	U	0.00399	U	0.00341	J	0.00173	U	0.0427	U	0.0149	J	0.00301	J
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	U	0.00167	U	0.00114	U	0.00406	U	0.00348	U	0.00264	U	0.00151	U	0.0373	U	0.00554	U	0.00205	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	U	0.00177	U	0.00121	U	0.00430	U	0.00369	U	0.00280	U	0.0074	U	0.0074	J	0.00587	U	0.00217	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	U	0.00171	U	0.00117	U	0.00416	U	0.00356	U	0.00270	U	0.00155	U	0.0382	U	0.00567	U	0.00210	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	U	0.00170	U	0.00117	U	0.00415	U	0.00355	U	0.00270	U	0.00154	U	0.0381	U	0.00566	U	0.00209	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	U	0.00172	U	0.00118	U	0.00419	U	0.00359	U	0.00272	U	0.00156	U	0.0384	U	0.00571	U	0.00211	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	U	0.00170	U	0.00116	U	0.00413	U	0.00354	U	0.00269	U	0.00154	U	0.0379	U	0.00564	U	0.00208	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	U	0.00171	U	0.00117	U	0.00416	U	0.00357	U	0.00271	U	0.00155	U	0.0382	U	0.00568	U	0.00210	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	U	0.00177	U	0.00121	U	0.00432	U	0.00370	U	0.00281	U	0.00161	U	0.0396	U	0.00589	U	0.00218	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

-- = 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:

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 14
April 2020 Release Response Soil Analytical Results – SVOCs
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

			Constituent	Pentachlorophenol	
			Method	8270C	
			Units	mg/kg	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	0.00437	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.00472	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.00449	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.00452	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00572	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.00506	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.00492	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.00524	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.00437	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.00443	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.00527	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.00543	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.00465	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.00464	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.00504	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.00464	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.00517	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.00478	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.00497	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.00513	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.00448	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.00474	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.00458	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.00457	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.00462	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.00456	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.00459	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.00476	U

Notes:

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3. Detected values highlighted in grey exceed the SDL.

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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:

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 15
April 2020 Release Response Soil Analytical Results – PCBs
2020 Annual Report
Jal Landfarm (NM-02-0012)
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	
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-129-S-2-3-200429	04/29/2020	0.00175	U	0.00944	U	0.00733	U	0.00136	U	0.00272	U	0.00242	U	0.0148	U
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	0.00188	U	0.01010	U	0.00787	U	0.00146	U	0.00292	U	0.00260	U	0.0159	U
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	0.00179	U	0.00966	U	0.00750	U	0.00139	U	0.00279	U	0.00247	U	0.0151	U
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.00181	U	0.00977	U	0.00758	U	0.00140	U	0.00282	U	0.00250	U	0.0153	U
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	0.00229	U	0.01240	U	0.00959	U	0.00177	U	0.00356	U	0.00316	U	0.0193	U
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	0.00202	U	0.01090	U	0.00847	U	0.00157	U	0.00315	U	0.0028	U	0.0171	U
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.00197	U	0.01060	U	0.00824	U	0.00152	U	0.00306	U	0.00272	U	0.0166	U
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	0.00209	U	0.01130	U	0.00876	U	0.00162	U	0.00326	U	0.00289	U	0.0176	U
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.00175	U	0.00944	U	0.00733	U	0.00136	U	0.00273	U	0.00242	U	0.0148	U
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	0.00176	U	0.00949	U	0.00737	U	0.00136	U	0.00274	U	0.00243	U	0.0149	U
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.00211	U	0.01140	U	0.00882	U	0.00163	U	0.00328	U	0.00291	U	0.0178	U
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.00216	U	0.01170	U	0.00907	U	0.00168	U	0.00337	U	0.00299	U	0.0183	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	0.00185	U	0.00998	U	0.00775	U	0.00143	U	0.00288	U	0.00256	U	0.0156	U
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	0.00184	U	0.00995	U	0.00772	U	0.00143	U	0.00287	U	0.00255	U	0.0156	U
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.00202	U	0.01090	U	0.00845	U	0.00156	U	0.00314	U	0.00279	U	0.0170	U
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	0.00185	U	0.00997	U	0.00774	U	0.00143	U	0.00288	U	0.00255	U	0.0156	U
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	0.00208	U	0.01120	U	0.00869	U	0.00161	U	0.00323	U	0.00287	U	0.0175	U
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	0.00190	U	0.01030	U	0.00798	U	0.00148	U	0.00296	U	0.00263	U	0.0161	U
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	0.00199	U	0.01070	U	0.00832	U	0.00154	U	0.00309	U	0.00274	U	0.0168	U
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	0.00205	U	0.01100	U	0.00857	U	0.00159	U	0.00318	U	0.00283	U	0.0173	U
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.00179	U	0.00966	U	0.00750	U	0.00139	U	0.00279	U	0.00247	U	0.0151	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.00189	U	0.01020	U	0.00791	U	0.00146	U	0.00294	U	0.00261	U	0.0159	U
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.00182	U	0.00982	U	0.00763	U	0.00141	U	0.00283	U	0.00252	U	0.0154	U
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	0.00183	U	0.00985	U	0.00765	U	0.00142	U	0.00284	U	0.00252	U	0.0154	U
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	0.00185	U	0.00999	U	0.00775	U	0.00143	U	0.00288	U	0.00256	U	0.0156	U
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.00183	U	0.00986	U	0.00766	U	0.00142	U	0.00285	U	0.00253	U	0.0154	U
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	0.00184	U	0.00994	U	0.00772	U	0.00143	U	0.00287	U	0.00255	U	0.0155	U
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.00191	U	0.01030	U	0.00802	U	0.00148	U	0.00298	U	0.00264	U	0.0162	U

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Qualifiers:
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Table 16
April 2020 Release Response Soil Analytical Results – Other Constituents
2020 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		Total Dissolved Solids	
		Method	300.0		300.0		300.0		300.0		SW9045		Moisture		Moisture		9012A		SW9066		SM2540C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg		mg/L	
		Background Soil Concentration	2.2		--		15.0		1.7		--						--		--		--	
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	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	10.9	--	0.326	U	68.5	--	6.32	--	8.7	--	91.1	--	8.9	--	0.0197	U	0.321	--	288	--
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	21.3	--	0.351	U	66.5	--	4.91	--	8.7	--	84.7	--	15.3	--	0.0209	U	0.240	U	126	--
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	31.3	--	0.333	U	163	--	3.36	--	8.9	--	89.1	--	10.9	--	0.0185	U	0.249	J	318	--
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	37.1	--	0.337	U	185	--	9.26	--	9.1	--	88.2	--	11.8	--	0.0198	U	0.238	U	211	--
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	19.1	--	0.425	U	107	--	6.53	--	9.2	H	69.9	--	30.1	--	0.0221	U	0.294	U	246	--
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	5.62	--	0.376	U	90.4	--	7.89	--	8.4	H	79.1	--	20.9	--	0.0223	U	0.258	U	303	--
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	24.1	--	0.365	U	6,290	--	6.11	--	7.9	H	81.3	--	18.7	--	0.0190	U	0.253	U	964	--
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	24.6	--	0.389	U	101	--	6.99	--	8.6	H	76.3	--	23.7	--	0.0226	U	0.372	B	166	--
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	15.6	--	0.325	U	245	--	4.34	--	8.6	H	91.3	--	8.7	--	0.0172	U	0.221	U	139	--
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	9.2	--	0.329	U	137	--	2.58	--	8.8	--	90.3	--	9.7	--	1.18	--	0.414	--	90	--
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	9.82	--	0.393	U	185	--	7.02	--	8.6	H	75.5	--	24.5	--	0.03	J	0.329	B	203	--
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	8.94	--	0.403	U	147	--	8.39	--	8.5	H	73.7	--	26.3	--	0.0217	U	0.279	U	129	--
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	3.76	--	0.345	U	98.1	--	4.36	--	9.1	--	86	--	14	--	0.0202	U ^	0.318	--	106	--
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	5.12	--	0.344	U	73	--	7.59	--	8.7	--	86.2	--	13.8	--	0.0193	U ^	0.243	U	79	--
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	24.5	--	0.375	U	332	--	5.94	--	9.2	--	79.2	--	20.8	--	0.0220	U ^	0.265	U	117	--
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	24	--	0.344	U	317	--	4.14	--	9	--	86.3	--	13.7	--	0.0203	U ^	0.243	U	168	--
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	5.86	--	0.385	U	186	--	5.94	--	8.6	H	77.1	--	22.9	--	0.0231	U	0.446	B	164	--
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	7.99	--	0.355	U	87.7	--	4.24	--	8.1	H	83.6	--	16.4	--	0.0202	U	0.248	U	105	--
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	4.87	--	0.369	U	47	--	7.31	--	8.7	H	80.5	--	19.5	--	0.0212	U	0.260	U	111	--
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	6.85	--	0.381	U	42.2	--	6.04	--	8.6	H	78	--	22	--	0.0200	U	0.254	U	141	--
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	3.67	--	0.333	U	29	--	3.63	--	8.8	--	89.1	--	10.9	--	0.0204	U	0.231	U	143	--
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	9.65	--	0.352	U	32.5	--	4.04	--	7.8	--	84.4	--	15.6	--	0.0284	J	0.249	U	4,780	--
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	8.3	--	0.340	U	26.4	--	4.45	--	8.1	--	87.3	--	12.7	--	0.0282	J	0.240	U	141	--
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	11	--	0.340	U	79.4	--	6.93	--	8.8	--	87.3	--	12.7	--	0.0191	U	0.235	U	99	--
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	36.4	--	0.344	U	146	--	8.93	--	8.6	--	86.2	--	13.8	--	0.0203	U	0.241	U	173	--
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	3.04	--	0.339	U	26.9	--	4.46	--	8.9	--	87.5	--	12.5	--	0.0205	U	0.304	--	68	--
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	14.3	--	0.343	U	52.3	--	5.62	--	8.7	--	86.7	--	13.3	--	0.0204	U	0.235	U	99	--
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	9.56	--	0.355	U	23.7	--	4.14	--	8.2	--	83.6	--	16.4	--	0.0409	J	0.248	U	5,250	--

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3. Detected values highlighted in grey exceed the soil background concentration or SDL.

-- = not applicable
% = percent
CCV = continuing calibration verification
ICV = initial calibration verification
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
QC = quality control

Qualifiers:
J = Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
B = The compound was found in the blank and sample
U = Analyte was not detected at or above the SDL.
H = Sample was prepped or analyzed beyond the specified holding time
^ = ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

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Table 17
April 2020 Release Response Soil Analytical Results – Radium
2020 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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square-129-S-2-3-200429	04/29/2020	1.05	--	0.505	U	1.09	--
Cell 17	Vadose	Cell17-Square-190-S-2-3-200429	04/29/2020	1.31	--	0.250	U	1.54	--
Cell 17	Vadose	Cell17-Square-37-S-2-3-200429	04/29/2020	1.35	--	0.466	U	1.59	--
Cell 17	Vadose	Cell17-Square-91-S-2-3-200429	04/29/2020	0.998	--	0.363	U	1.13	--
Cell 18	Vadose	Cell18-Square-202-S-2-3-200428	04/28/2020	1.06	--	0.306	U	1.33	--
Cell 18	Vadose	Cell18-Square-35-S-2-3-200428	04/28/2020	1.33	--	0.360	U	1.52	--
Cell 18	Vadose	Cell18-Square-55-S-2-3-200428	04/28/2020	0.945	--	0.388	U	1.17	--
Cell 18	Vadose	Cell18-Square-59-S-2-3-200428	04/28/2020	1.06	--	0.455	U	0.987	--
Cell 19	Vadose	Cell19-Square-154-S-2-3-200428	04/28/2020	0.386	--	0.228	U	0.528	--
Cell 19	Vadose	Cell19-Square-171-S-2-3-200427	04/27/2020	1.35	--	0.224	U	1.48	--
Cell 19	Vadose	Cell19-Square-23-S-2-3-200428	04/28/2020	0.575	--	0.406	--	0.981	--
Cell 19	Vadose	Cell19-Square-93-S-2-3-200428	04/28/2020	0.332	U	0.250	--	0.332	U
Cell 20	Vadose	Cell20-Square-105-S-2-3-200427	04/27/2020	1.60	--	0.518	--	2.12	--
Cell 20	Vadose	Cell20-Square-187-S-2-3-200427	04/27/2020	1.41	--	0.203	U	1.59	--
Cell 20	Vadose	Cell20-Square-91-S-2-3-200427	04/27/2020	0.884	--	0.273	U	0.917	--
Cell 20	Vadose	Cell20-Square-99-S-2-3-200427	04/27/2020	1.39	--	0.573	U	1.38	--
Cell 21	Vadose	Cell21-Square-14-S-2-3-200428	04/28/2020	1.59	--	0.440	--	2.03	--
Cell 21	Vadose	Cell21-Square-155-S-2-3-200428	04/28/2020	1.30	--	0.311	U	1.36	--
Cell 21	Vadose	Cell21-Square-47-S-2-3-200428	04/28/2020	1.25	--	0.267	--	1.51	--
Cell 21	Vadose	Cell21-Square-76-S-2-3-200428	04/28/2020	1.14	--	0.519	U	1.18	--
Cell 25	Vadose	Cell25-Square-162-S-2-3-200429	04/29/2020	0.407	U	0.446	U	0.446	U
Cell 25	Vadose	Cell25-Square-179-S-2-3-200429	04/29/2020	0.515	--	0.611	--	1.13	--
Cell 25	Vadose	Cell25-Square-187-S-2-3-200429	04/29/2020	0.334	--	0.613	--	0.947	--
Cell 25	Vadose	Cell25-Square-85-S-2-3-200429	04/29/2020	1.34	--	0.380	U	1.42	--
Cell 26	Vadose	Cell26-Square-110-S-2-3-200429	04/29/2020	1.50	--	0.502	U	1.56	--
Cell 26	Vadose	Cell26-Square-167-S-2-3-200429	04/29/2020	0.899	--	0.310	U	1.03	--
Cell 26	Vadose	Cell26-Square-169-S-2-3-200429	04/29/2020	1.15	--	0.346	U	1.27	--
Cell 26	Vadose	Cell26-Square-79-S-2-3-200429	04/29/2020	0.438	--	0.382	--	0.82	--

Notes:
1. Non-detect values are reported to the MDC specified in the laboratory reports for Radium-226.
2. Non-detect values are reported to the SDL specified in the laboratory reports for Radium-228 and Combined Radium 226+228.
3. Detected values highlighted in grey exceed the SDL or MDC.

-- = not applicable
ID = identification
MDC = minimum detectable concentration
NMAC = New Mexico Administrative Code
pCi/g = average picocuries per gram
SDL = sample detection limit

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

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Table 18
August 2020 Release Response Soil Analytical Results – TPH, BTEX, and Chloride
2020 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		300.0	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	--		< 5.00		--		--		< 0.05		< 0.05		< 0.05		< 0.05		10.0	
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-Square197-S-2-3-200806	08/06/2020	2.84	U	0.657	U	30.4	--	33.9	--	0.000703	U	0.00154	U	0.00114	U	0.00126	U	6.83	--
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	2.68	U	0.64	U	32.1	--	35.4	--	0.000683	U	0.0015	U	0.00111	U	0.00123	U	2.39	J
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	4.62	J	0.684	U	28.7	--	34.0	--	0.000748	U	0.00164	U	0.00121	U	0.00134	U	4.28	J
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	3.51	J	0.804	U	30.6	--	34.9	--	0.000924	U	0.00202	U	0.0015	U	0.00166	U	157	--
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	9.79	U	0.719	U	28.6	U	39.1	--	0.000731	U	0.0016	U	0.00118	U	0.00131	U	2.72	J
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	3.23	U	0.784	U	56.5	--	60.5	--	0.000835	U	0.00183	U	0.00135	U	0.0015	U	3.29	J
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	2.78	U	0.626	U	8.14	U	11.5	--	0.000708	U	0.00155	U	0.00115	U	0.00127	U	32.3	--
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	2.93	U	0.714	U	8.56	U	12.2	--	0.000798	U	0.00175	U	0.00129	U	0.00143	U	3.01	J
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	2.87	U	0.618	U	8.41	U	11.9	--	0.000739	U	0.00162	U	0.0012	U	0.00133	U	3.15	J
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	4.65	J	0.731	J	38.2	--	43.6	--	0.000759	U	0.00166	U	0.00123	U	0.00136	U	4.90	--
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	11.8	--	0.664	U	37.6	--	50.1	--	0.00155	J	0.00155	U	0.00115	U	0.00127	U	3.75	J
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	3.73	J	0.699	U	37.2	--	41.6	--	0.00285	J	0.00169	U	0.00125	U	0.00139	U	6.12	--
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	1.94	U	0.940	J	5.66	U	8.5	--	0.000773	U	0.00169	U	0.00125	U	0.00139	U	13.6	--
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	2.96	U	0.635	U	8.65	U	12.2	--	0.00275	J	0.00149	U	0.0011	U	0.00122	U	4.17	J
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	2.89	U	0.708	U	8.44	U	12.0	--	0.000777	U	0.0017	U	0.00126	U	0.00139	U	2.45	J
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	2.74	U	0.627	U	8.01	U	11.4	--	0.000648	U	0.00142	U	0.00105	U	0.00116	U	19.0	--
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	11.6	--	0.713	U	8.65	U	21.0	--	0.00353	J	0.00166	U	0.00123	U	0.00136	U	4.42	J
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	2.93	U	0.656	U	8.57	U	12.2	--	0.000777	U	0.0017	U	0.00126	U	0.00139	U	4.25	J
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	2.79	U	0.688	U	8.15	U	11.6	--	0.000999	J	0.00156	U	0.00115	U	0.00127	U	3.14	J
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	2.84	U	0.654	U	8.30	U	11.8	--	0.00215	J	0.00142	U	0.00105	U	0.00116	U	2.25	J

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 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 for TPH, BTEX, and chloride.
3. Detected values highlighted in grey exceed the SDL or background soil concentration.

-- = 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.

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Table 19
August 2020 Release Response Soil Analytical Results – Metals
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Iron		Lead	
		Method	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	
		Background Soil Concentration	--		< 5.0		45.0		--		< 2.0		6.1		--		--		< 5.0	
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-Square152-S-2-3-200806	08/06/2020	1.77	U	3.55	U	31.9	--	0.355	U	0.213	U	5.24	J	3.55	U	5,280	--	5.54	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	2.17	U	4.33	U	122	--	0.433	U	0.26	U	4.88	U	4.33	U	1,700	--	1.35	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	2.49	U	4.98	U	341	--	0.498	U	1.050	--	5.60	U	4.98	U	3,690	--	3.40	J
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	2.20	U	4.41	U	425	--	0.441	U	0.265	U	4.96	U	4.41	U	1,820	--	1.38	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	2.09	U	4.18	U	47.9	--	0.418	U	0.251	U	6.62	J	5.37	J	5,950	--	6.54	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	2.22	U	4.44	U	316	--	1.110	U	0.266	U	4.99	U	4.44	U	2,320	--	1.59	J
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	2.04	U	4.34	J	339	--	0.408	U	0.245	U	4.59	U	4.08	U	2,240	--	1.53	J
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	2.20	U	4.40	U	893	--	1.100	U	0.264	U	5.60	J	4.40	U	4,970	--	3.44	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	2.15	U	4.30	U	420	--	0.43	U	0.258	U	4.84	U	4.30	U	1,290	--	1.34	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	2.22	U	4.45	U	173	--	0.445	U	0.267	U	5.00	U	4.45	U	2,420	--	1.39	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	2.05	U	4.11	U	89.9	--	1.030	U	0.246	U	4.62	U	4.11	U	2,220	--	3.21	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	2.01	U	4.02	U	312	--	0.402	U	0.241	U	4.53	U	4.02	U	2,510	--	1.28	J
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	1.83	U	4.33	J	209	--	0.365	U	0.219	U	4.11	U	3.65	U	1,740	--	1.14	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	2.14	U	4.39	J	477	--	0.428	U	0.257	U	4.81	U	4.28	U	1,170	--	1.34	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	2.24	U	5.04	J	331	--	0.449	U	0.269	U	5.05	U	4.49	U	1,640	--	1.40	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	2.08	U	4.17	U	245	--	0.417	U	0.250	U	4.69	U	4.17	U	2,050	--	1.30	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	2.01	U	4.76	J	288	--	0.402	U	0.241	U	4.52	U	4.02	U	1,630	--	1.26	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	2.03	U	4.06	U	297	--	0.406	U	0.244	U	4.57	U	4.06	U	3,670	--	1.27	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	2.15	U	4.29	U	385	--	0.429	U	0.257	U	4.83	U	4.29	U	2,170	--	1.34	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	2.10	U	4.21	U	806	--	0.421	U	0.252	U	4.73	U	4.21	U	1,910	--	1.31	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 background soil concentration or SDL.

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

Qualifiers:

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

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Table 19
August 2020 Release Response Soil Analytical Results – Metals
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	Manganese		Mercury		Uranium		Selenium		Silver		Thallium		Zinc	
		Method	6010B		7471A		6020A		6010B		6010B		6010B		6010B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration	--		< 0.25		--		< 5.0		< 5.0		--		--	
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-Square152-S-2-3-200806	08/06/2020	110	--	0.00346	U	1.77	U	2.84	U	0.665	U	8.86	U	17.7	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	19.5	--	0.00385	U	0.433	U	3.47	U	0.813	U	2.17	U	21.7	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	37.6	--	0.00486	U	1.59	--	3.99	U	0.934	U	2.49	U	24.9	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	24.2	--	0.00401	U	0.441	U	3.53	U	0.827	U	2.20	U	22.0	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	88.4	--	0.00384	U	2.090	U	3.35	U	0.784	U	10.5	U	20.9	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	22.6	--	0.00424	U	1.11	U	3.55	U	0.832	U	2.22	U	22.2	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	24.9	--	0.00526	J	0.516	J	3.26	U	0.765	U	2.04	U	20.4	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	34.6	--	0.00945	J	1.10	U	3.52	U	0.825	U	5.50	U	22.0	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	15.9	--	0.00390	U	0.430	U	3.44	U	0.807	U	2.15	U	21.5	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	20.1	--	0.00374	U	0.445	U	3.56	U	0.833	U	2.22	U	22.2	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	24.1	--	0.00390	U	1.03	U	3.29	U	0.770	U	5.13	U	20.5	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	18.6	--	0.00413	U	0.402	U	3.22	U	0.754	U	2.01	U	20.1	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	21.1	--	0.00584	J	0.365	U	2.92	U	0.685	U	1.83	U	18.3	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	6.07	--	0.00399	U	0.428	U	3.42	U	0.802	U	2.14	U	21.4	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	15.4	--	0.00373	U	0.449	U	3.59	U	0.842	U	2.24	U	22.4	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	20.4	--	0.00382	U	0.417	U	3.33	U	0.781	U	2.08	U	20.8	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	10.0	--	0.00381	U	0.402	U	3.22	U	0.754	U	2.01	U	20.1	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	43.2	--	0.00403	U	0.406	U	3.25	U	0.761	U	2.03	U	20.3	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	17.4	--	0.00350	U	0.429	U	3.43	U	0.805	U	2.15	U	21.5	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	19.8	--	0.00372	U	0.421	U	3.37	U	0.789	U	2.10	U	21.0	U

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3. Detected values highlighted in grey exceed the background soil concentration or SDL.

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Table 20
August 2020 Release Response Soil Analytical Results – VOCs
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1 Dichloroethene		1,2,4-Trichlorobenzene		1,2-Dichlorobenzene (o-Dichlorobenzene)	
		Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.000802	U	0.000943	U	0.000792	U	0.000943	U	0.00132	U	0.00214	U	0.00087	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.000826	U	0.000971	U	0.000815	U	0.000971	U	0.00136	U	0.0022	U	0.00089	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00109	U	0.001280	U	0.0011	U	0.00128	U	0.00179	U	0.00289	U	0.00117	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.000879	U	0.00103	U	0.000867	U	0.00103	U	0.00145	U	0.00234	U	0.00095	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00083	U	0.000977	U	0.000820	U	0.000977	U	0.00137	U	0.00221	U	0.00090	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.000981	U	0.00115	U	0.000967	U	0.00115	U	0.00162	U	0.00261	U	0.00106	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.000938	U	0.0011	U	0.00093	U	0.0011	U	0.00155	U	0.0025	U	0.00101	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.000859	U	0.00101	U	0.000847	U	0.00101	U	0.00142	U	0.00229	U	0.00093	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.000832	U	0.000978	U	0.000821	U	0.000978	U	0.00137	U	0.00222	U	0.00090	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.000907	U	0.00107	U	0.000895	U	0.00107	U	0.0015	U	0.00242	U	0.00098	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.000868	U	0.00102	U	0.000857	U	0.00102	U	0.00143	U	0.00231	U	0.00094	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.000892	U	0.00105	U	0.00088	U	0.00105	U	0.00147	U	0.00237	U	0.00096	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.000761	U	0.000895	U	0.000751	U	0.000895	U	0.00125	U	0.00203	U	0.00082	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.000908	U	0.00107	U	0.000896	U	0.00107	U	0.0015	U	0.00242	U	0.00098	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.000913	U	0.00107	U	0.0009	U	0.00107	U	0.0015	U	0.00243	U	0.00099	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.000798	U	0.000938	U	0.000787	U	0.000938	U	0.00132	U	0.00212	U	0.00086	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.000889	U	0.00105	U	0.000877	U	0.00105	U	0.00147	U	0.00237	U	0.00096	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.000913	U	0.001070	U	0.000900	U	0.00107	U	0.00150	U	0.00243	U	0.00099	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.000834	U	0.000981	U	0.000823	U	0.000981	U	0.00138	U	0.00222	U	0.00090	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.000761	U	0.000895	U	0.000751	U	0.000895	U	0.00126	U	0.00203	U	0.00082	U

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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	
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-Square152-S-2-3-200806	08/06/2020	0.00111	U	0.000976	U	0.00077	U	0.000716	U	0.00123	U	0.000998	J b	0.0009	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00114	U	0.001	U	0.000793	U	0.000737	U	0.00126	U	0.00105	J b	0.000927	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.0015	U	0.00132	U	0.00104	U	0.000968	U	0.00166	U	0.00147	J b	0.00122	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00121	U	0.00107	U	0.000843	U	0.000784	U	0.00134	U	0.00105	J b	0.000986	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00115	U	0.00101	U	0.000797	U	0.000741	U	0.00127	U	0.00107	J b	0.000932	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00135	U	0.00119	U	0.000941	U	0.000875	U	0.0015	U	0.00118	J b	0.0011	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00129	U	0.00114	U	0.0009	U	0.000837	U	0.00143	U	0.00127	J b	0.00105	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00118	U	0.00104	U	0.000824	U	0.000766	U	0.00131	U	0.001	J b	0.000964	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00115	U	0.00101	U	0.000798	U	0.000742	U	0.00127	U	0.00227	J b	0.0009	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00125	U	0.0011	U	0.000871	U	0.000809	U	0.00139	U	0.00251	J b	0.00102	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0012	U	0.00106	U	0.000833	U	0.000774	U	0.00133	U	0.000974	J b	0.000974	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00123	U	0.00108	U	0.000856	U	0.000795	U	0.00136	U	0.00231	J b	0.001	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00105	U	0.000926	U	0.00073	U	0.000679	U	0.00116	U	0.00191	J b	0.000854	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00125	U	0.00110	U	0.000872	U	0.00081	U	0.00139	U	0.00237	J b	0.00102	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00126	U	0.00111	U	0.000876	U	0.000814	U	0.00139	U	0.00242	J b	0.00102	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00110	U	0.000971	U	0.000766	U	0.000712	U	0.00122	U	0.00213	J b	0.000895	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00123	U	0.00108	U	0.000853	U	0.000793	U	0.00136	U	0.00245	J b	0.000998	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00126	U	0.00111	U	0.000876	U	0.000814	U	0.00139	U	0.00238	J b	0.00102	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00115	U	0.00101	U	0.0008	U	0.000744	U	0.00127	U	0.00223	J b	0.000935	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00105	U	0.000926	U	0.000731	U	0.000679	U	0.00116	U	0.00253	J b	0.000854	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	
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-Square152-S-2-3-200806	08/06/2020	0.00237	U	0.00198	U	0.00077	U	0.00077	U	0.00124	U	0.00152	U	0.000976	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00244	U	0.00204	U	0.000793	U	0.000793	U	0.00127	U	0.00156	U	0.001	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00321	U	0.00268	U	0.00104	U	0.00104	U	0.00167	U	0.00205	U	0.00132	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0026	U	0.00217	U	0.000843	U	0.000843	U	0.00135	U	0.00166	U	0.00107	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00246	U	0.00206	U	0.000797	U	0.000797	U	0.00128	U	0.00157	U	0.00101	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00290	U	0.00242	U	0.000941	U	0.000941	U	0.00151	U	0.00186	U	0.00119	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00278	U	0.00232	U	0.0009	U	0.0009	U	0.00144	U	0.00177	U	0.00114	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00254	U	0.00212	U	0.000824	U	0.000824	U	0.00132	U	0.00163	U	0.00104	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00469	J	0.00206	U	0.000798	U	0.000798	U	0.00128	U	0.00157	U	0.00101	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00476	J	0.00224	U	0.000871	U	0.000871	U	0.0014	U	0.00172	U	0.0011	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00257	U	0.00215	U	0.000833	U	0.000833	U	0.00134	U	0.00164	U	0.00106	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00264	U	0.00221	U	0.000856	U	0.000856	U	0.00137	U	0.00169	U	0.00108	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00225	U	0.00188	U	0.00073	U	0.00073	U	0.00117	U	0.00144	U	0.000926	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00269	U	0.00225	U	0.000872	U	0.000872	U	0.0014	U	0.00172	U	0.0011	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00421	J	0.00226	U	0.000876	U	0.000876	U	0.00141	U	0.00173	U	0.00111	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00395	J	0.00197	U	0.000766	U	0.000766	U	0.00123	U	0.00151	U	0.000971	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00396	J	0.0022	U	0.000853	U	0.000853	U	0.00137	U	0.00168	U	0.00108	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00293	J	0.00226	U	0.000876	U	0.000876	U	0.00141	U	0.00173	U	0.00111	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00316	J	0.00206	U	0.0008	U	0.0008	U	0.00128	U	0.00158	U	0.00101	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00353	J	0.00188	U	0.000731	U	0.000731	U	0.00117	U	0.00144	U	0.000926	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	
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-Square152-S-2-3-200806	08/06/2020	0.00149	U	0.00676	U	0.00631	U	0.000716	U	0.0009	U *	0.0018	U	0.000716	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00153	U	0.00695	U	0.0065	U	0.000737	U	0.000927	U *	0.00185	U	0.000737	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00201	U	0.00914	U	0.00853	U	0.000968	U	0.00122	U *	0.00243	U	0.000968	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00163	U	0.00740	U	0.00691	U	0.000784	U	0.000986	U *	0.00197	U	0.000784	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00154	U	0.00700	U	0.00654	U	0.000741	U	0.000932	U *	0.00186	U	0.000741	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00182	U	0.00826	U	0.00771	U	0.000875	U	0.0011	U *	0.0022	U	0.000875	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00174	U	0.00790	U	0.00738	U	0.000837	U	0.00105	U *	0.0021	U	0.000837	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00159	U	0.00723	U	0.00676	U	0.000766	U	0.000964	U *	0.00193	U	0.000766	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00154	U	0.00701	U	0.00654	U	0.000742	U	0.000933	U	0.00187	U	0.000742	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00168	U	0.00764	U	0.00714	U	0.000809	U	0.00102	U	0.00204	U	0.000809	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00161	U	0.00731	U	0.00683	U	0.000774	U	0.000974	U *	0.00195	U	0.000774	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00165	U	0.00751	U	0.00701	U	0.000795	U	0.001	U	0.002	U	0.000795	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00141	U	0.00641	U	0.00599	U	0.000679	U	0.000854	U	0.00171	U	0.000679	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00168	U	0.00765	U	0.00714	U	0.00081	U	0.00102	U	0.00204	U	0.00081	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00169	U	0.00768	U	0.00718	U	0.000814	U	0.00102	U	0.00205	U	0.000814	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00148	U	0.00672	U	0.00628	U	0.000712	U	0.000895	U	0.00179	U	0.000712	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00165	U	0.00749	U	0.007	U	0.000793	U	0.000998	U	0.002	U	0.000793	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00169	U	0.00768	U	0.00718	U	0.000814	U	0.00102	U	0.00205	U	0.000814	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00154	U	0.00702	U	0.00656	U	0.000744	U	0.000935	U	0.00187	U	0.000744	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00141	U	0.00641	U	0.00599	U	0.000679	U	0.000854	U	0.00171	U	0.000679	U

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Table 20
August 2020 Release Response Soil Analytical Results – VOCs
2020 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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.0673	U	0.000586	U	0.000629	U	0.000629	U	0.000705	U	0.00167	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0693	U	0.000603	U	0.000647	U	0.000647	U	0.000726	U	0.00172	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.091	U	0.000792	U	0.00085	U	0.00085	U	0.000953	U	0.00226	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0737	U	0.000641	U	0.000689	U	0.000689	U	0.000772	U	0.00183	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0697	U	0.000607	U	0.000651	U	0.000651	U	0.00073	U	0.00173	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0822	U	0.000716	U	0.000769	U	0.000769	U	0.000861	U	0.00204	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0787	U	0.000684	U	0.000735	U	0.000735	U	0.000824	U	0.00195	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0721	U	0.000627	U	0.000673	U	0.000673	U	0.000755	U	0.00179	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0698	U	0.000607	U	0.000652	U	0.000652	U	0.000731	U	0.00173	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.0761	U	0.000662	U	0.000711	U	0.000711	U	0.000797	U	0.00189	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0728	U	0.000634	U	0.000681	U	0.000681	U	0.000763	U	0.00181	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.0748	U	0.000651	U	0.000699	U	0.000699	U	0.000783	U	0.00186	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.0638	U	0.000555	U	0.000596	U	0.000596	U	0.000668	U	0.00158	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.0762	U	0.000663	U	0.000712	U	0.000712	U	0.000798	U	0.00189	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.0766	U	0.000666	U	0.000715	U	0.000715	U	0.000802	U	0.0019	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.0669	U	0.000582	U	0.000625	U	0.000625	U	0.000701	U	0.00166	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0746	U	0.000649	U	0.000697	U	0.000697	U	0.000781	U	0.00185	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.0766	U	0.000666	U	0.000715	U	0.000715	U	0.000802	U	0.0019	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.07	U	0.000609	U	0.000654	U	0.000654	U	0.000733	U	0.00174	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0639	U	0.000556	U	0.000597	U	0.000597	U	0.000669	U	0.00158	U

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Table 21
August 2020 Release Response Soil Analytical Results – SVOCs
2020 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	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00164	U	0.00366	J	0.00151	U	0.00105	U	0.00134	U	0.00525	U	0.00144	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00174	U	0.00303	U	0.00159	U	0.00111	U	0.00141	U	0.00555	U	0.00153	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00212	U	0.0037	U	0.00195	U	0.00135	U	0.00173	U	0.00678	U	0.00187	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00175	U	0.00305	U	0.00161	U	0.00111	U	0.00143	U	0.0056	U	0.00154	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0017	U	0.00297	U	0.00156	U	0.00108	U	0.00139	U	0.00544	U	0.0015	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00197	U	0.00344	U	0.00181	U	0.00126	U	0.00161	U	0.00631	U	0.00173	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0018	U	0.00313	U	0.00165	U	0.00114	U	0.00146	U	0.00574	U	0.00158	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00183	U	0.00319	U	0.00168	U	0.00116	U	0.00149	U	0.00585	U	0.00161	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00176	U	0.00307	U	0.00161	U	0.00112	U	0.00143	U	0.00562	U	0.00155	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00236	J	0.00399	J	0.00165	U	0.00115	U	0.00147	U	0.00577	U	0.00159	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00176	U	0.00307	U	0.00162	U	0.00112	U	0.00144	U	0.00563	U	0.00155	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00181	U	0.00316	U	0.00166	U	0.00115	U	0.00148	U	0.00579	U	0.00159	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00168	U	0.00294	U	0.00154	U	0.00107	U	0.00137	U	0.00538	U	0.00148	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00177	U	0.00309	U	0.00163	U	0.00113	U	0.00145	U	0.00567	U	0.00156	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00176	U	0.00308	U	0.00162	U	0.00112	U	0.00144	U	0.00564	U	0.00155	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00181	U	0.00316	U	0.00166	U	0.00115	U	0.00148	U	0.00579	U	0.00159	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0018	U	0.00315	U	0.00165	U	0.00115	U	0.00147	U	0.00577	U	0.00159	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00179	U	0.00313	U	0.00164	U	0.00114	U	0.00146	U	0.00573	U	0.00158	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00171	U	0.00298	U	0.00157	U	0.00109	U	0.00139	U	0.00546	U	0.0015	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00173	U	0.00582	J	0.00159	U	0.0011	U	0.00141	U	0.00555	U	0.00152	U

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2020 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	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00168	U	0.0018	U	0.0053	U	0.00156	U	0.00107	U	0.0038	U	0.00325	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00178	U	0.0019	U	0.0056	U	0.00165	U	0.00113	U	0.00401	U	0.00344	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00218	U	0.00232	U	0.00685	U	0.00201	U	0.00138	U	0.00491	U	0.0042	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00179	U	0.00192	U	0.00565	U	0.00166	U	0.00114	U	0.00405	U	0.00347	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00175	U	0.00187	U	0.0055	U	0.00162	U	0.00111	U	0.00394	U	0.00337	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00202	U	0.00216	U	0.00637	U	0.00187	U	0.00128	U	0.00456	U	0.00391	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00184	U	0.00197	U	0.0058	U	0.0017	U	0.00117	U	0.00415	U	0.00356	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00188	U	0.002	U	0.00591	U	0.00174	U	0.00119	U	0.00423	U	0.00362	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0018	U	0.00193	U	0.00568	U	0.00167	U	0.00114	U	0.00407	U	0.00348	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00185	U	0.00198	U	0.00582	U	0.00171	U	0.00117	U	0.00417	U	0.00357	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00181	U	0.00193	U	0.00569	U	0.00167	U	0.00114	U	0.00407	U	0.00349	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00186	U	0.00198	U	0.00585	U	0.00172	U	0.00118	U	0.00419	U	0.00359	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00172	U	0.00184	U	0.00543	U	0.0016	U	0.00109	U	0.00389	U	0.00333	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00182	U	0.00194	U	0.00572	U	0.00168	U	0.00115	U	0.0041	U	0.00351	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00181	U	0.00193	U	0.00569	U	0.00167	U	0.00115	U	0.00408	U	0.00349	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00186	U	0.00198	U	0.00585	U	0.00172	U	0.00118	U	0.00419	U	0.00359	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00185	U	0.00198	U	0.00583	U	0.00171	U	0.00117	U	0.00417	U	0.00357	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00184	U	0.00196	U	0.00579	U	0.0017	U	0.00116	U	0.00414	U	0.00355	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00175	U	0.00187	U	0.00552	U	0.00162	U	0.00111	U	0.00395	U	0.00338	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00178	U	0.0019	U	0.00560	U	0.00165	U	0.00113	U	0.00401	U	0.00344	U

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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	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00247	U	0.00366	U	0.00141	U	0.00518	U	0.00191	U	0.00418	U	0.00706	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00261	U	0.00387	U	0.00149	U	0.00547	U	0.00202	U	0.00442	U	0.00746	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00319	U	0.00473	U	0.00182	U	0.00669	U	0.00247	U	0.00541	U	0.00912	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00263	U	0.0039	U	0.0015	U	0.00552	U	0.00204	U	0.00446	U	0.00752	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00256	U	0.0038	U	0.00146	U	0.00537	U	0.00198	U	0.00434	U	0.00732	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00297	U	0.0044	U	0.0017	U	0.00622	U	0.0023	U	0.00503	U	0.00848	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00270	U	0.004	U	0.00154	U	0.00566	U	0.00209	U	0.00457	U	0.00772	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00275	U	0.00408	U	0.00157	U	0.00577	U	0.00213	U	0.00466	U	0.00786	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00264	U	0.00392	U	0.00151	U	0.00554	U	0.00205	U	0.00448	U	0.00756	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00271	U	0.00402	U	0.00155	U	0.00569	U	0.0021	U	0.00459	U	0.00775	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00265	U	0.00393	U	0.00151	U	0.00555	U	0.00205	U	0.00449	U	0.00757	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00272	U	0.00404	U	0.00156	U	0.00571	U	0.00211	U	0.00461	U	0.00778	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00253	U	0.00375	U	0.00145	U	0.0053	U	0.00196	U	0.00429	U	0.00723	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00266	U	0.00395	U	0.00152	U	0.00559	U	0.00207	U	0.00452	U	0.00762	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00265	U	0.00393	U	0.00152	U	0.00556	U	0.00206	U	0.00449	U	0.00758	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00272	U	0.00404	U	0.00156	U	0.00571	U	0.00211	U	0.00461	U	0.00779	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00271	U	0.00402	U	0.00155	U	0.00569	U	0.0021	U	0.0046	U	0.00776	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00269	U	0.004	U	0.00154	U	0.00565	U	0.00209	U	0.00457	U	0.00771	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00257	U	0.00381	U	0.00147	U	0.00539	U	0.00199	U	0.00435	U	0.00735	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00261	U	0.00387	U	0.00149	U	0.00547	U	0.00202	U	0.00442	U	0.00746	U

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Table 21
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2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent	Hexachlorobenzene		Pentachlorobenzene		2,4-Dichlorophenol		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		bis(2-chloroisopropyl) ether		bis(2-Chloroethyl) ether	
		Method	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00159	U	0.00419	U *	0.00405	U	0.0105	U	0.0028	U	0.00925	U	0.00173	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00168	U	0.00443	U *	0.00428	U	0.0111	U	0.00296	U	0.00977	U	0.00182	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00205	U	0.00542	U *	0.00523	U	0.0135	U	0.00362	U	0.0119	U	0.00223	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00169	U	0.00447	U	0.00431	U	0.0112	U	0.00299	U	0.00985	U	0.00184	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00165	U	0.00435	U	0.0042	U	0.0109	U	0.00291	U	0.00959	U	0.00179	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00191	U	0.00504	U	0.00486	U	0.0126	U	0.00337	U	0.0111	U	0.00207	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00174	U	0.00459	U *	0.00443	U	0.0114	U	0.00306	U	0.0101	U	0.00189	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00177	U	0.00467	U	0.00451	U	0.0117	U	0.00312	U	0.0103	U	0.00192	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0017	U	0.00449	U	0.00433	U	0.0112	U	0.003	U	0.0099	U	0.00185	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00175	U	0.00461	U	0.00445	U	0.0115	U	0.00308	U	0.0102	U	0.0019	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00171	U	0.0045	U	0.00434	U	0.0112	U	0.00301	U	0.00992	U	0.00185	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00175	U	0.00462	U	0.00446	U	0.0115	U	0.00309	U	0.0102	U	0.0019	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00163	U	0.0043	U	0.00415	U	0.0107	U	0.00287	U	0.00947	U	0.00177	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00172	U	0.00453	U	0.00437	U	0.0113	U	0.00303	U	0.00998	U	0.00186	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00171	U	0.0045	U	0.00435	U	0.0112	U	0.00301	U	0.00993	U	0.00185	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00175	U	0.00463	U	0.00446	U	0.0115	U	0.00309	U	0.0102	U	0.0019	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00175	U	0.00461	U	0.00445	U	0.0115	U	0.00308	U	0.0102	U	0.0019	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00174	U	0.00458	U	0.00442	U	0.0114	U	0.00306	U	0.0101	U	0.00188	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00165	U	0.00436	U	0.00421	U	0.0109	U	0.00292	U	0.00962	U	0.0018	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00168	U	0.00443	U	0.00428	U	0.0111	U	0.00296	U	0.00977	U	0.00182	U

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Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		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	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00242	U	0.0174	U *	0.00751	U *	0.00438	U	0.00198	U	0.00489	U *	0.00521	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00255	U	0.0184	U *	0.00794	U *	0.00463	U	0.00209	U	0.00516	U *	0.0055	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00312	U	0.0225	U *	0.0097	U *	0.00566	U	0.00255	U	0.00631	U *	0.00673	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00257	U	0.0186	U	0.008	U	0.00467	U	0.00211	U	0.00521	U	0.00555	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0025	U	0.0181	U	0.00779	U	0.00454	U	0.00205	U	0.00506	U	0.0054	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0029	U	0.0209	U	0.00902	U	0.00526	U	0.00237	U	0.00587	U	0.00626	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00264	U	0.0229	J *	0.00821	U *	0.00479	U	0.00216	U	0.00534	U *	0.00569	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00269	U	0.0194	U	0.00836	U	0.00488	U	0.0022	U	0.00544	U	0.0058	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00259	U	0.0187	U	0.00804	U	0.00469	U	0.00212	U	0.00523	U	0.00558	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00265	U	0.0191	U	0.00825	U	0.00481	U	0.00217	U	0.00536	U	0.00572	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00259	U	0.0187	U	0.00806	U	0.0047	U	0.00212	U	0.00524	U	0.00559	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00266	U	0.0192	U	0.00828	U	0.00483	U	0.00218	U	0.00538	U	0.00574	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00247	U	0.0179	U	0.00769	U	0.00449	U	0.00202	U	0.005	U	0.00534	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00261	U	0.0188	U	0.00811	U	0.00473	U	0.00213	U	0.00527	U	0.00562	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00259	U	0.0187	U	0.00806	U	0.00471	U	0.00212	U	0.00524	U	0.00559	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00267	U	0.0192	U	0.00828	U	0.00483	U	0.00218	U	0.00539	U	0.00575	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00265	U	0.0192	U	0.00825	U	0.00482	U	0.00217	U	0.00537	U	0.00572	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00264	U	0.019	U	0.0082	U	0.00478	U	0.00216	U	0.00533	U	0.00568	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00251	U	0.0181	U	0.00781	U	0.00456	U	0.00206	U	0.00508	U	0.00542	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00255	U	0.0184	U	0.00793	U	0.00463	U	0.00209	U	0.00516	U	0.0055	U

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		Constituent	2,4-Dinitrotoluene		2,6-Dinitrotoluene		2,4-Dinitrophenol		Nitrobenzene		bis(2-Ethylhexyl)phthalate		Di-n-butylphthalate		Diethylphthalate	
		Method	8270C		8270C		8270C		8270C		8270C		8270C		8270C	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00378	U	0.00309	U	0.00494	U	0.0031	U	0.00562	U	0.00271	U	0.00882	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00399	U	0.00326	U	0.00522	U	0.00327	U	0.00594	U	0.00286	U	0.00932	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00488	U	0.00399	U	0.00638	U	0.004	U	0.0214	J	0.00974	J	0.0114	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00402	U	0.00329	U	0.00526	U	0.0033	U	0.0182	J	0.00289	U	0.0094	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00391	U	0.0032	U	0.00512	U	0.00321	U	0.00582	U	0.00281	U	0.00914	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00454	U	0.00371	U	0.00593	U	0.00372	U	0.0269	J	0.0123	J	0.0106	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00413	U	0.00337	U	0.0054	U	0.00338	U	0.0233	J	0.0131	J	0.00964	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0042	U	0.00344	U	0.0055	U	0.00345	U	0.019	J	0.00302	U	0.00982	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00404	U	0.0033	U	0.00529	U	0.00332	U	0.0238	J	0.0116	J	0.00944	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00415	U	0.00339	U	0.00542	U	0.0034	U	0.0222	J	0.00298	U	0.00968	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00405	U	0.00331	U	0.0053	U	0.00332	U	0.0278	J	0.00291	U	0.00946	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00416	U	0.0034	U	0.00544	U	0.00341	U	0.0226	J	0.00851	J	0.00972	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00387	U	0.00316	U	0.00506	U	0.00317	U	0.0312	J	0.00606	J	0.00903	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00408	U	0.00333	U	0.00533	U	0.00334	U	0.0258	J b	0.0108	J	0.00952	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00405	U	0.00331	U	0.0053	U	0.00332	U	0.0419	--	0.015	J	0.00947	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00416	U	0.0034	U	0.00545	U	0.00342	U	0.022	J	0.00851	J	0.00973	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00415	U	0.00339	U	0.00542	U	0.0034	U	0.0442	--	0.0187	J	0.00969	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00412	U	0.00337	U	0.00539	U	0.00338	U	0.0295	J	0.0148	J	0.00962	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00393	U	0.00321	U	0.00514	U	0.00322	U	0.0172	J	0.00282	U	0.00917	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00399	U	0.00326	U	0.00522	U	0.00327	U	0.0241	J	0.00286	U	0.00931	U

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		Constituent	Dimethyl phthalate		Benzidine		3,3'-Dichlorobenzidine		1,2-Diphenylhydrazine		Isophorone		Hexachlorobutadiene		Thiophene, tetrahydro-, 1,1-dioxide		Chlorobenzene	
		Method	8270C		8270C		8270C		8270C		8270C		8270C		8270C		8260B	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
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-Square152-S-2-3-200806	08/06/2020	0.00512	U	0.00944	U	0.0106	U	0.00169	U	0.00105	U	0.00201	U	0.0174	U	0.00104	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0054	U	0.00997	U	0.0112	U	0.00179	U	0.00111	U	0.00212	U	0.0184	U	0.00107	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00661	U	0.0122	U	0.0137	U	0.00219	U	0.00135	U	0.00259	U	0.0225	U	0.00141	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00545	U	0.0101	U	0.0113	U	0.00181	U	0.00111	U	0.00214	U	0.0186	U	0.00114	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0053	U	0.00978	U	0.011	U	0.00176	U	0.00108	U	0.00208	U	0.0181	U	0.00108	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00614	U	0.0113	U	0.0128	U	0.00204	U	0.00126	U	0.00241	U	0.0209	U	0.00127	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00559	U	0.0103	U	0.0116	U	0.00185	U	0.00114	U	0.0022	U	0.0191	U	0.00122	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0529	J	0.0105	U	0.0118	U	0.00189	U	0.00116	U	0.00224	U	0.0194	U	0.00111	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00548	U	0.0101	U	0.0114	U	0.00181	U	0.00112	U	0.00215	U	0.0187	U	0.00108	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00562	U	0.0104	U	0.0117	U	0.00186	U	0.00115	U	0.00221	U	0.0191	U	0.00118	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00549	U	0.0101	U	0.0114	U	0.00182	U	0.00112	U	0.00215	U	0.0187	U	0.00113	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00564	U	0.0104	U	0.0117	U	0.00187	U	0.00115	U	0.00221	U	0.0192	U	0.00116	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00524	U	0.00966	U	0.0109	U	0.00174	U	0.00107	U	0.00206	U	0.0179	U	0.000987	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00552	U	0.0102	U	0.0115	U	0.00183	U	0.00113	U	0.00217	U	0.0188	U	0.00118	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00549	U	0.0101	U	0.0114	U	0.00182	U	0.00112	U	0.00216	U	0.0187	U	0.00118	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00564	U	0.0104	U	0.0117	U	0.00187	U	0.00115	U	0.00222	U	0.0192	U	0.00104	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00562	U	0.0104	U	0.0117	U	0.00186	U	0.00115	U	0.00221	U	0.0192	U	0.00115	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00558	U	0.0103	U	0.0116	U	0.00185	U	0.00114	U	0.00219	U	0.019	U	0.00118	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00532	U	0.00982	U	0.0111	U	0.00176	U	0.00109	U	0.00209	U	0.0181	U	0.00108	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0054	U	0.00997	U	0.0112	U	0.00179	U	0.0011	U	0.00212	U	0.0184	U	0.000988	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 SDL.

-- = 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:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value.
U = Analyte was not detected at or above the SDL.
* = LCS or LCSD is outside acceptance limits.

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Table 22
August 2020 Release Response Soil Analytical Results – PCBs
2020 Annual Report
Jal Landfarm (NM-02-0012)
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	
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-Square152-S-2-3-200806	08/06/2020	0.00167	U	0.00902	U	0.00700	U	0.00130	U	0.00260	U	0.00231	U	0.0141	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00177	U	0.00954	U	0.00741	U	0.00137	U	0.00275	U	0.00244	U	0.0149	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00217	U	0.0117	U	0.00907	U	0.00168	U	0.00337	U	0.00299	U	0.0183	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00179	U	0.00966	U	0.00750	U	0.00139	U	0.00279	U	0.00247	U	0.0151	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00174	U	0.00937	U	0.00728	U	0.00135	U	0.00270	U	0.00240	U	0.0147	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00202	U	0.0109	U	0.00846	U	0.00157	U	0.00314	U	0.00279	U	0.0170	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00183	U	0.00987	U	0.00766	U	0.00142	U	0.00285	U	0.00253	U	0.0154	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00186	U	0.0100	U	0.00778	U	0.00144	U	0.00289	U	0.00257	U	0.0157	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00180	U	0.00971	U	0.00754	U	0.00140	U	0.00280	U	0.00249	U	0.0152	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00770	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00180	U	0.00968	U	0.00752	U	0.00139	U	0.00279	U	0.00248	U	0.0151	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00769	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00172	U	0.00928	U	0.0072	U	0.00133	U	0.00268	U	0.00238	U	0.0145	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00180	U	0.00973	U	0.00755	U	0.00140	U	0.00281	U	0.00249	U	0.0152	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00181	U	0.00974	U	0.00756	U	0.00140	U	0.00281	U	0.00249	U	0.0152	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00184	U	0.00992	U	0.00770	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00184	U	0.00991	U	0.00769	U	0.00142	U	0.00286	U	0.00254	U	0.0155	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00183	U	0.00984	U	0.00764	U	0.00141	U	0.00284	U	0.00252	U	0.0154	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00174	U	0.00940	U	0.00730	U	0.00135	U	0.00271	U	0.00241	U	0.0147	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00177	U	0.00954	U	0.00741	U	0.00137	U	0.00275	U	0.00244	U	0.0149	U

Notes:
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3. Detected values highlighted in grey exceed the SDL.

-- = 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.

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Table 23
August 2020 Release Response Soil Analytical Results – Other Constituents
2020 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	300.0		300.0		300.0		300.0		SW9045		Moisture		Moisture		9012A		SW9066	
		Units	mg/kg		mg/kg		mg/kg		mg/kg		SU		%		%		mg/kg		mg/kg	
		Background Soil Concentration	2.2		--		15.0		1.7		--						--		--	
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-Square152-S-2-3-200806	08/06/2020	5.53	--	0.311	U	19.4	--	4.11	--	8.6	H	95.5	--	4.50	--	0.0377	J	0.433	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	22.7	--	0.330	U	68.4	--	3.55	--	9.0	H	89.9	--	10.1	--	0.0188	U	0.759	b
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	21.2	--	2.020	U	4,630	--	9.60	J	8.0	H	73.6	--	26.4	--	0.0231	U	0.566	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	6.96	--	0.333	U	35.3	--	4.28	--	8.9	H	89.2	--	10.8	--	0.0194	U	0.467	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	11.1	--	0.469	J	150	--	3.90	--	9.3	H	91.8	--	8.20	--	0.0405	J	0.554	b
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	8.08	--	0.375	U	60.6	--	7.51	--	8.8	H	79.1	--	20.9	--	0.0218	U	0.53	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	16.7	--	0.340	U	125	--	9.88	--	8.1	H	87.3	--	12.7	--	0.0195	U	0.729	b
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	6.69	--	0.347	U	62.7	--	9.69	--	8.9	H	85.6	--	14.4	--	0.0196	U	1.08	b
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	8.80	--	0.335	U	101	--	9.08	--	8.8	H	88.8	--	11.2	--	0.0200	U	0.47	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	16.1	--	0.342	U	286	--	9.47	--	8.6	H	86.9	--	13.1	--	0.0204	U	0.481	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	13.1	--	0.335	U	40.2	--	6.54	--	8.9	H	88.8	--	11.2	--	0.0184	U	0.568	b
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	13.7	--	0.343	U	262	--	5.45	--	8.8	H	86.6	--	13.4	--	0.0196	U	0.481	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	12.0	--	0.320	U	194	--	9.65	--	9.1	H	92.8	--	7.20	--	0.0191	U	0.45	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	12.5	--	0.337	U	270	--	7.56	--	8.9	H	88.2	--	11.8	--	0.0198	U	0.473	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	10.0	--	0.336	U	56.5	--	4.37	--	8.5	H	88.5	--	11.5	--	0.0199	U	0.469	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	7.01	--	0.343	U	62.3	--	5.13	--	8.9	H	86.5	--	13.5	--	0.0198	U	0.551	J
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	8.78	--	0.343	U	81.3	--	7.04	--	8.8	H	86.7	--	13.3	--	0.0205	U	0.483	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	4.68	--	0.340	U	48.2	--	9.38	--	9.0	H	87.4	--	12.6	--	0.0185	U	0.477	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	7.27	--	0.325	U	47.3	--	10.1	--	8.7	H	91.5	--	8.50	--	0.0194	U	0.457	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	8.92	--	0.329	U	105	--	7.59	--	8.9	H	90.3	--	9.70	--	0.0194	U	0.464	U

Notes:

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3. Detected values highlighted in grey exceed the soil background concentration or SDL.

-- = not applicable
% = percent
CCV = continuing calibration verification
ICV = initial calibration verification
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
QC = quality control

Qualifiers:

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

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Table 23
August 2020 Release Response Soil Analytical Results – Other Constituents
2020 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		E537-LL		E537-LL	
Units				mg/L		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration				--		--		--		--		--		--		--	
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-Square152-S-2-3-200806	08/06/2020	162	--	0.0306	U	0.0429	U	0.0227	U	0.0000838	U	0.000276	U	0.000226	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	117	--	0.0306	U	0.0429	U	0.0227	U	0.000759	--	0.000289	U	0.000237	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	1,030	--	0.0303	U	0.0424	U	0.0224	U	0.00108	--	0.000375	U	0.000308	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	137	--	0.0282	U	0.0396	U	0.0209	U	0.000111	J	0.000303	U	0.000249	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	1,700	--	0.0305	U	0.0427	U	0.0225	U	0.0000855	U	0.000302	U	0.000248	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	111	--	0.0306	U	0.0429	U	0.0226	U	0.00194	--	0.000337	U	0.000277	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	158	--	0.0296	U	0.0415	U	0.0219	U	0.000090	U	0.000305	U	0.000251	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	135	--	0.0302	U	0.0423	U	0.0223	U	0.0000928	U	0.000298	U	0.000245	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	116	--	0.0297	U	0.0416	U	0.0220	U	0.0000910	U	0.000293	U	0.00024	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	158	--	0.0301	U	0.0422	U	0.0223	U	0.0000891	U	0.000305	U	0.000251	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	99.0	--	0.0302	U	0.0424	U	0.0224	U	0.000544	J	0.000306	U	0.000252	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	132	--	0.0303	U	0.0424	U	0.0224	U	0.0000922	U	0.000311	U	0.000255	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	144	--	0.0303	U	0.0425	U	0.0224	U	0.0000849	U	0.000296	U	0.000243	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	165	--	0.0286	U	0.0401	U	0.0212	U	0.000396	J	0.000298	U	0.000245	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	87.0	--	0.0296	U	0.0415	U	0.0219	U	0.0000863	U	0.000311	U	0.000255	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	125	--	0.0283	U	0.0397	U	0.0210	U	0.0000922	U	0.000313	U	0.000257	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	159	--	0.0288	U	0.0403	U	0.0213	U	0.0000927	U	0.000303	U	0.000249	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	127	--	0.0287	U	0.0401	U	0.0212	U	0.000093	U	0.000302	U	0.000248	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	117	--	0.0304	U	0.0425	U	0.0225	U	0.0000878	U	0.000291	U	0.000239	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	105	--	0.0283	U	0.0397	U	0.0209	U	0.0000873	U	0.000298	U	0.000245	U

Notes:

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

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Table 24
August 2020 Release Response Soil Analytical Results – Radium
2020 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	
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.520	--	0.286	--	0.807	--
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.738	--	0.119	U	0.857	--
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.846	--	-0.0113	U	0.835	--
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.857	--	0.169	U	1.03	--
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.670	--	0.472	--	1.14	--
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.656	--	0.269	U	0.92	--
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	1.220	--	0.137	U	1.35	--
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.763	--	0.391	--	1.15	--
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.546	--	0.010	U	0.557	--
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.400	--	0.280	--	0.680	--
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.829	--	0.226	U	1.060	--
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.392	--	0.112	U	0.504	--
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	1.040	--	0.065	U	1.10	--
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.620	--	-0.0659	U	0.554	--
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.967	--	-0.027	U	0.940	--
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	1.320	--	0.184	U	1.50	--
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	1.710	--	0.133	U	1.85	--
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	1.030	--	-0.133	U	0.899	--
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.880	--	0.220	--	1.10	--
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.966	--	0.058	U	1.02	--

Notes:
1. Non-detect values are reported to the MDC specified in the laboratory reports.
2. Detected values highlighted in grey exceed the MDC.

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

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

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Table 25
August 2020 Release Response Soil Analytical Results – Pesticides
2020 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				8081A		8081A		8081A		8081A		8081A		8081A		8081A	
Units				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Background Soil Concentration																	
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-Square152-S-2-3-200806	08/06/2020	0.00137	U	0.0245	U	0.00193	U	0.00145	U	0.00176	U	0.00158	U	0.00105	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00145	U	0.0259	U	0.00204	U	0.00154	U	0.00186	U	0.00167	U	0.00111	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00177	U	0.0317	U	0.0025	U	0.00188	U	0.00227	U	0.00204	U	0.00135	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00147	U	0.0262	U	0.00207	U	0.00156	U	0.00188	U	0.00169	U	0.00112	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00142	U	0.0254	U	0.00201	U	0.00151	U	0.00182	U	0.00164	U	0.00109	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00165	U	0.0295	U	0.00234	U	0.00175	U	0.00212	U	0.00191	U	0.00126	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00150	U	0.0268	U	0.00212	U	0.00159	U	0.00192	U	0.00173	U	0.00114	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00152	U	0.0272	U	0.00215	U	0.00161	U	0.00195	U	0.00175	U	0.00116	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00147	U	0.0263	U	0.00208	U	0.00156	U	0.00189	U	0.0017	U	0.00113	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00213	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00147	U	0.0263	U	0.00208	U	0.00156	U	0.00188	U	0.00169	U	0.00112	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00212	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00141	U	0.0252	U	0.00199	U	0.00149	U	0.00181	U	0.00162	U	0.00107	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00148	U	0.0264	U	0.00209	U	0.00157	U	0.00189	U	0.0017	U	0.00113	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00148	U	0.0264	U	0.00209	U	0.00157	U	0.0019	U	0.0017	U	0.00113	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00151	U	0.0269	U	0.00213	U	0.0016	U	0.00193	U	0.00174	U	0.00115	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00150	U	0.0269	U	0.00212	U	0.0016	U	0.00193	U	0.00173	U	0.00115	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00149	U	0.0267	U	0.00211	U	0.00159	U	0.00192	U	0.00172	U	0.00114	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00143	U	0.0255	U	0.00201	U	0.00151	U	0.00183	U	0.00164	U	0.00109	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00145	U	0.0259	U	0.00205	U	0.00154	U	0.00186	U	0.00167	U	0.00111	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 SDL.

-- = 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.

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Table 25
August 2020 Release Response Soil Analytical Results – Pesticides
2020 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		8081A		8081A		8081A		8081A		8081A		8081A	
		Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration													
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.0016	U	0.000972	U	0.00105	U	0.00107	U	0.000889	U	0.000972	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.00169	U	0.00103	U	0.00111	U	0.00113	U	0.000939	U	0.00103	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.00207	U	0.00126	U	0.00135	U	0.00138	U	0.00115	U	0.00126	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.00171	U	0.00104	U	0.00112	U	0.00114	U	0.000952	U	0.00104	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.00166	U	0.00101	U	0.00109	U	0.00111	U	0.000923	U	0.00101	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.00193	U	0.00117	U	0.00126	U	0.00129	U	0.00107	U	0.00117	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.00175	U	0.00106	U	0.00114	U	0.00117	U	0.000972	U	0.00106	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.00178	U	0.00108	U	0.00116	U	0.00118	U	0.000987	U	0.00108	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.00172	U	0.00105	U	0.00113	U	0.00115	U	0.000956	U	0.00105	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.00172	U	0.00104	U	0.00112	U	0.00114	U	0.000954	U	0.00104	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.00164	U	0.001	U	0.00107	U	0.00110	U	0.000914	U	0.00100	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.00173	U	0.00105	U	0.00113	U	0.00115	U	0.000958	U	0.00105	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.00173	U	0.00105	U	0.00113	U	0.00115	U	0.000959	U	0.00105	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000977	U	0.00107	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.00176	U	0.00107	U	0.00115	U	0.00117	U	0.000976	U	0.00107	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.00175	U	0.00106	U	0.00114	U	0.00116	U	0.000970	U	0.00106	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.00167	U	0.00101	U	0.00109	U	0.00111	U	0.000926	U	0.00101	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.00169	U	0.00103	U	0.00111	U	0.00113	U	0.000940	U	0.00103	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 SDL.

-- = 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.

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Table 25
August 2020 Release Response Soil Analytical Results – Pesticides
2020 Annual Report
Jal Landfarm (NM-02-0012)
Lea County, New Mexico

		Constituent		Toxaphene		Prometon		Hexachlorocyclopentadiene	
		Method		8081A		8270D		8270C	
		Units		mg/kg		mg/kg		mg/kg	
		Background Soil Concentration							
Landfarm Cell	Zone	Sample ID	Sample Date	Result	Qualifier	Result	Qualifier	Result	Qualifier
Cell 17	Vadose	Cell17-Square152-S-2-3-200806	08/06/2020	0.0764	U	0.0122	U	0.00482	U
Cell 17	Vadose	Cell17-Square197-S-2-3-200806	08/06/2020	0.0808	U	0.0133	U	0.00510	U
Cell 17	Vadose	Cell17-Square86-S-2-3-200806	08/06/2020	0.0989	U	0.0157	U	0.00623	U
Cell 17	Vadose	Cell17-Square92-S-2-3-200806	08/06/2020	0.0819	U	0.0134	U	0.00514	U
Cell 18	Vadose	Cell18-Square118-S-2-3-200806	08/06/2020	0.0794	U	0.0128	U	0.00500	U
Cell 18	Vadose	Cell18-Square154-S-2-3-200806	08/06/2020	0.0923	U	0.0151	U	0.00579	U
Cell 18	Vadose	Cell18-Square157-S-2-3-200806	08/06/2020	0.0836	U	0.0137	U	0.00527	U
Cell 18	Vadose	Cell18-Square176-S-2-3-200806	08/06/2020	0.0849	U	0.0140	U	0.00537	U
Cell 19	Vadose	Cell19-Square27-S-2-3-200807	08/07/2020	0.0823	U	0.0132	U	0.00516	U
Cell 19	Vadose	Cell19-Square43-S-2-3-200807	08/07/2020	0.0840	U	0.0137	U	0.00530	U
Cell 19	Vadose	Cell19-Square62-S-2-3-200806	08/06/2020	0.0820	U	0.0130	U	0.00517	U
Cell 19	Vadose	Cell19-Square99-S-2-3-200807	08/07/2020	0.0839	U	0.0135	U	0.00532	U
Cell 20	Vadose	Cell20-Square15-S-2-3-200807	08/07/2020	0.0786	U	0.0128	U	0.00494	U
Cell 20	Vadose	Cell20-Square154-S-2-3-200807	08/07/2020	0.0824	U	0.0135	U	0.00520	U
Cell 20	Vadose	Cell20-Square204-S-2-3-200807	08/07/2020	0.0825	U	0.0134	U	0.00518	U
Cell 20	Vadose	Cell20-Square79-S-2-3-200807	08/07/2020	0.0840	U	0.0135	U	0.00532	U
Cell 21	Vadose	Cell21-Square155-S-2-3-200807	08/07/2020	0.0840	U	0.0136	U	0.00530	U
Cell 21	Vadose	Cell21-Square208-S-2-3-200807	08/07/2020	0.0834	U	0.0135	U	0.00526	U
Cell 21	Vadose	Cell21-Square21-S-2-3-200807	08/07/2020	0.0796	U	0.0130	U	0.00502	U
Cell 21	Vadose	Cell21-Square61-S-2-3-200807	08/07/2020	0.0808	U	0.0132	U	0.00509	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 SDL.

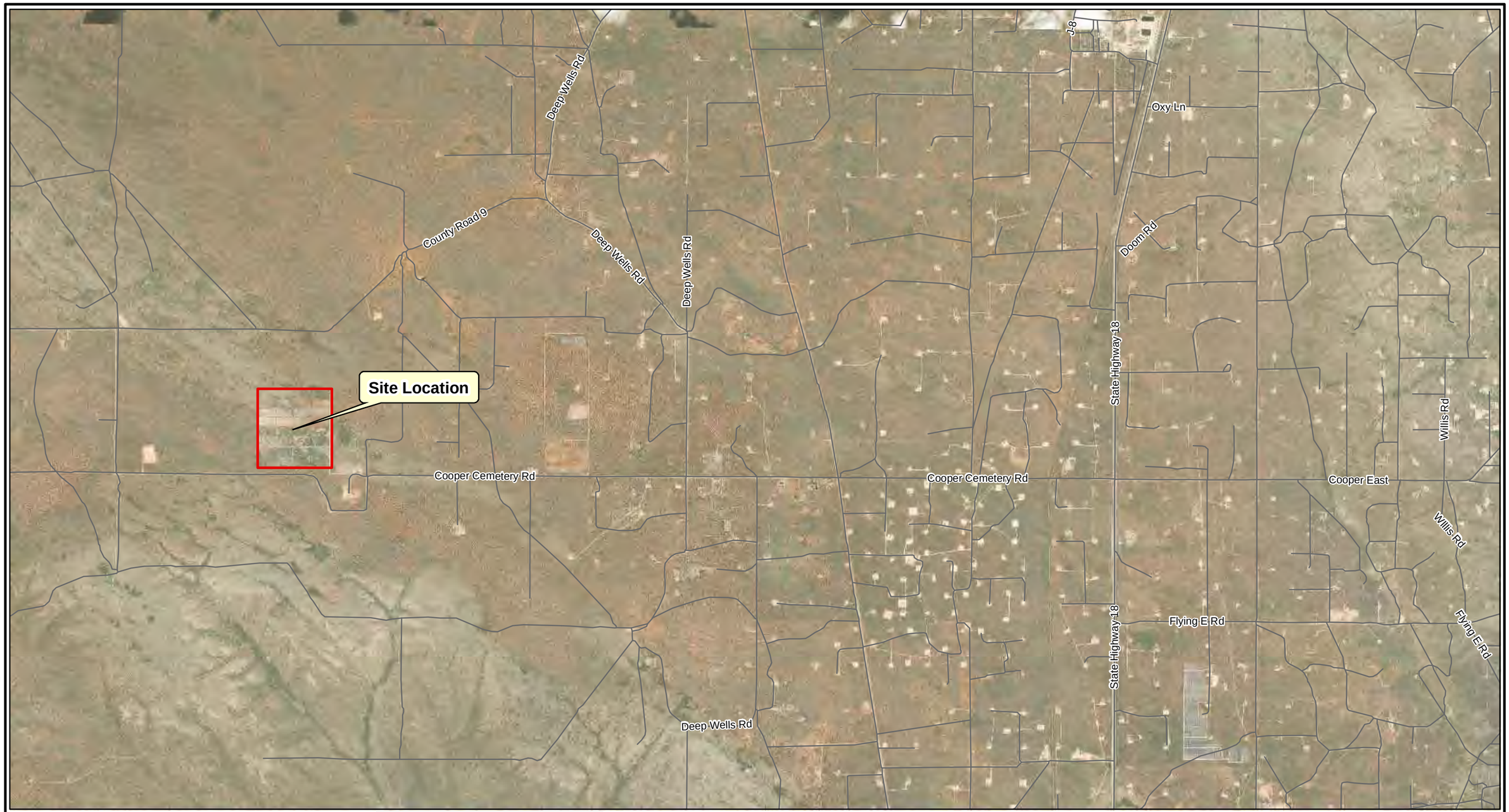
-- = not applicable
ID = identification
mg/kg = milligrams per kilogram
NMAC = New Mexico Administrative Code
SDL = sample detection limit

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

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Figures

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LEGEND

Landfarm Boundary



0 3,000 6,000

SCALE IN FEET

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

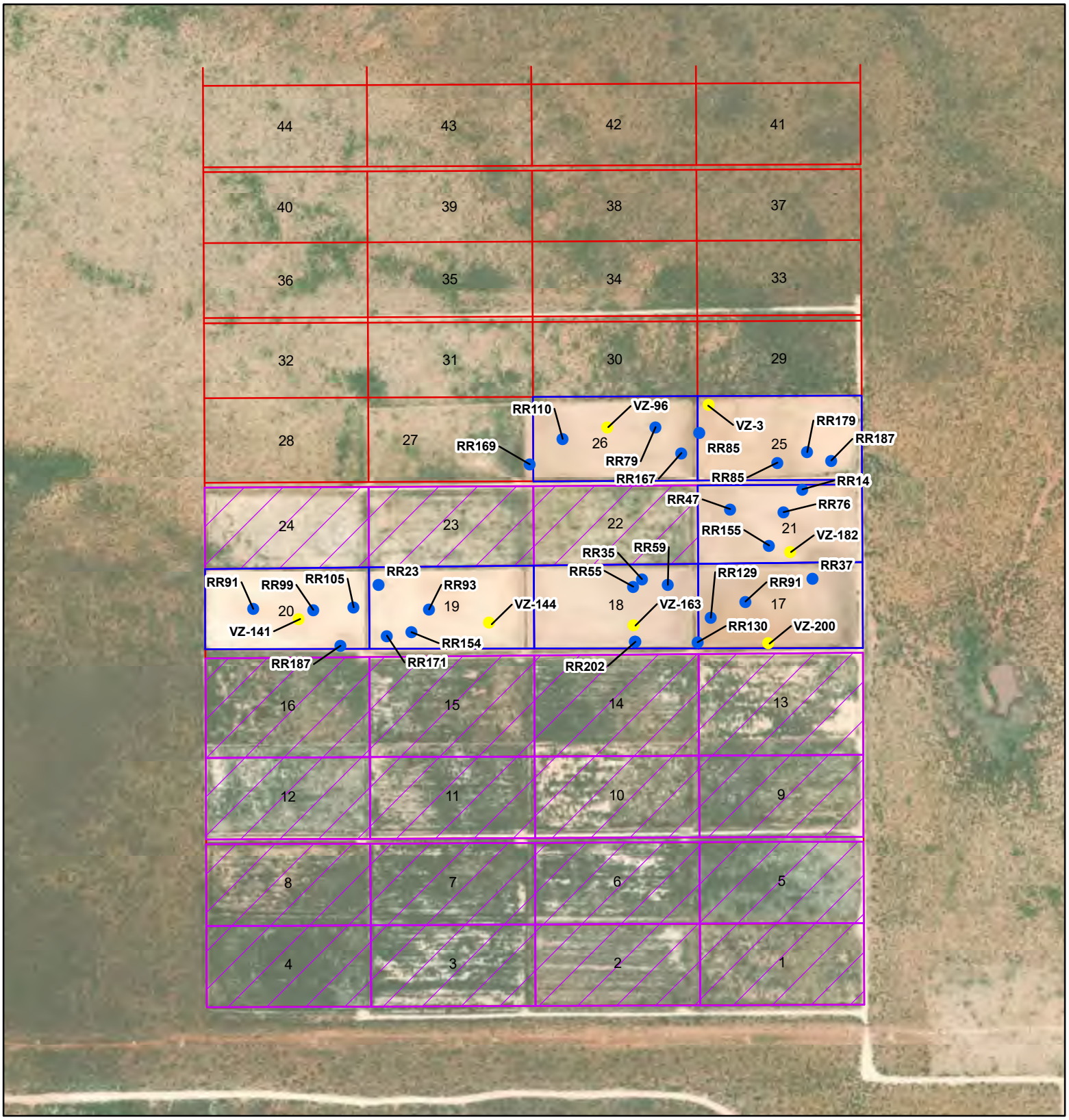
2020 ANNUAL REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

PATH: Z:\GISPROJECTS_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\FIGURE-1_JAL LANDFARM_2018.MXD SAVED: 1/28/2019 BY: AVI00976



LEGEND

- Release Response Sample Locations (April 2020)
- Vadose Zone Sample Locations (March 2020)
- 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

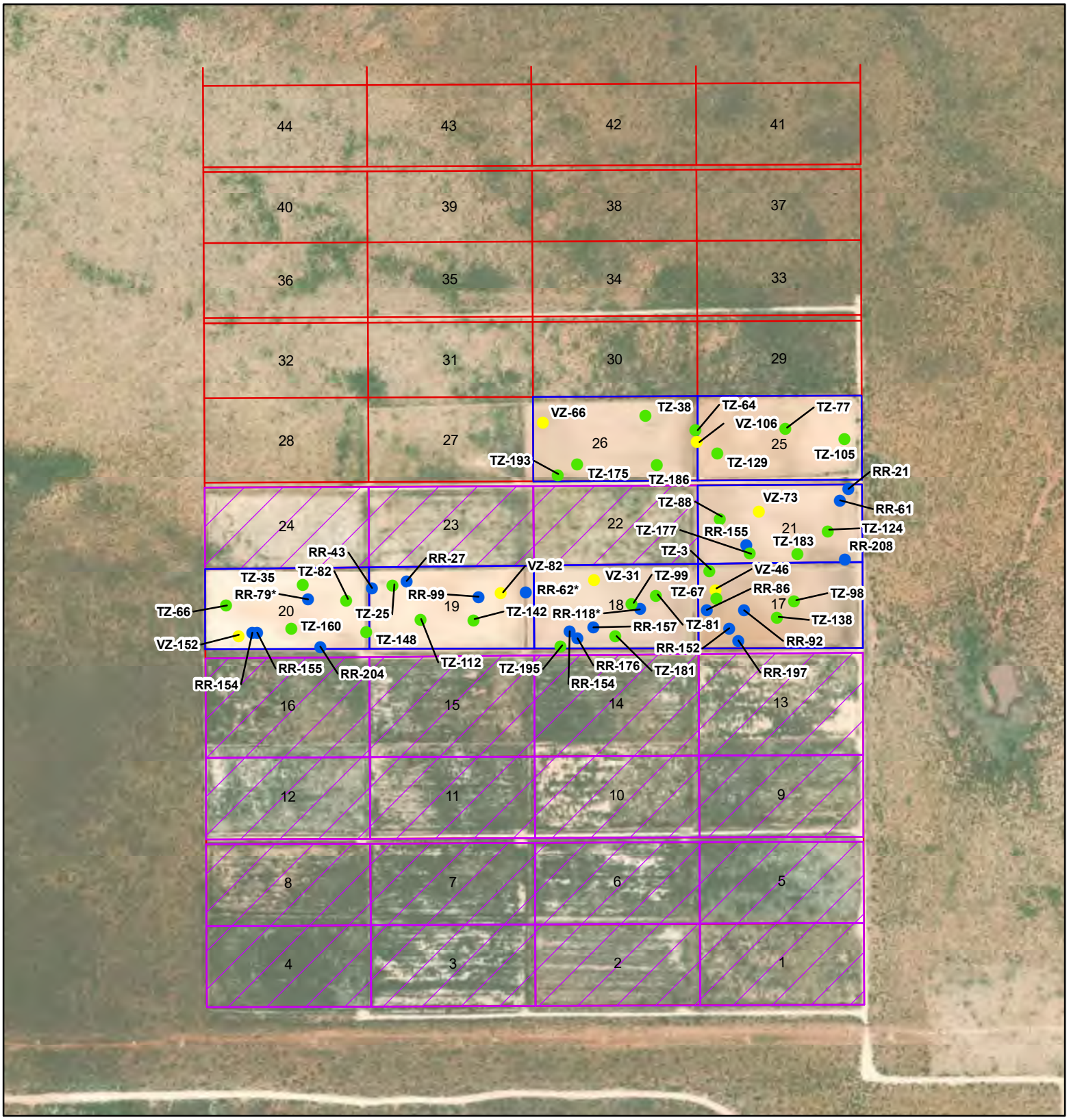
2020 ANNUAL REPORT

FIRST QUARTER 2020 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2021-01\FIGURE-2_SAMPLING_LOCATIONS_1Q2020.MXD SAVED: 2/2/2021 BY: MAI00749



LEGEND

- Release Response Sample Locations (August 2020)
- Treatment Zone Sample Locations (June 2020)
- Vadose Zone Sample Locations (June 2020)
- * The coordinates were inadvertently not collected. The sample location is approximate.
- 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

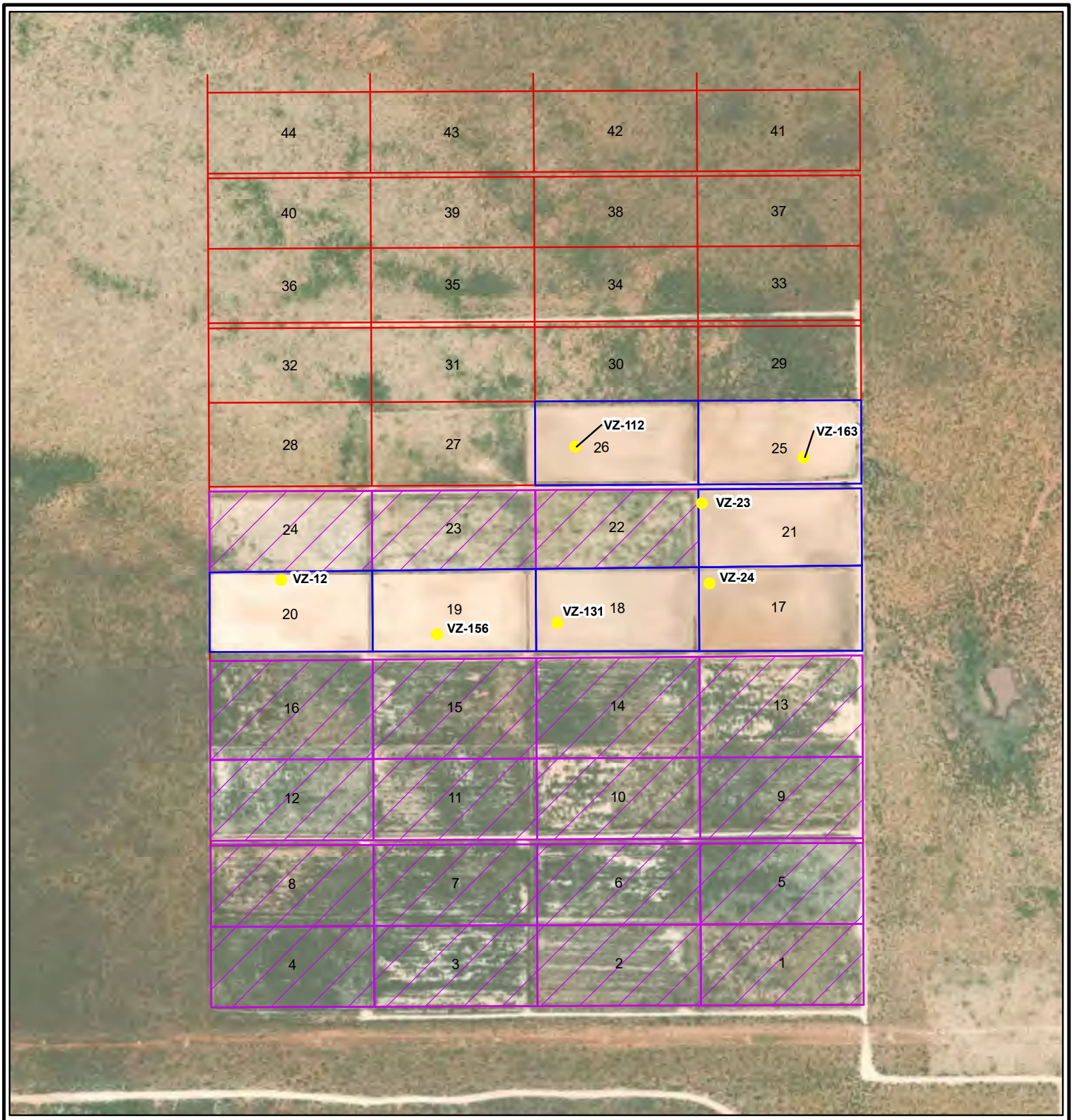
2020 ANNUAL REPORT

SECOND QUARTER 2020 AND RELEASE RESPONSE SAMPLE LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2021-01\FIGURE-3_SAMPLING_LOCATIONS_2Q2020.MXD SAVED: 2/2/2021 BY: MAI00749



LEGEND

- Vadose Zone Sample Locations (September 2020)
- 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

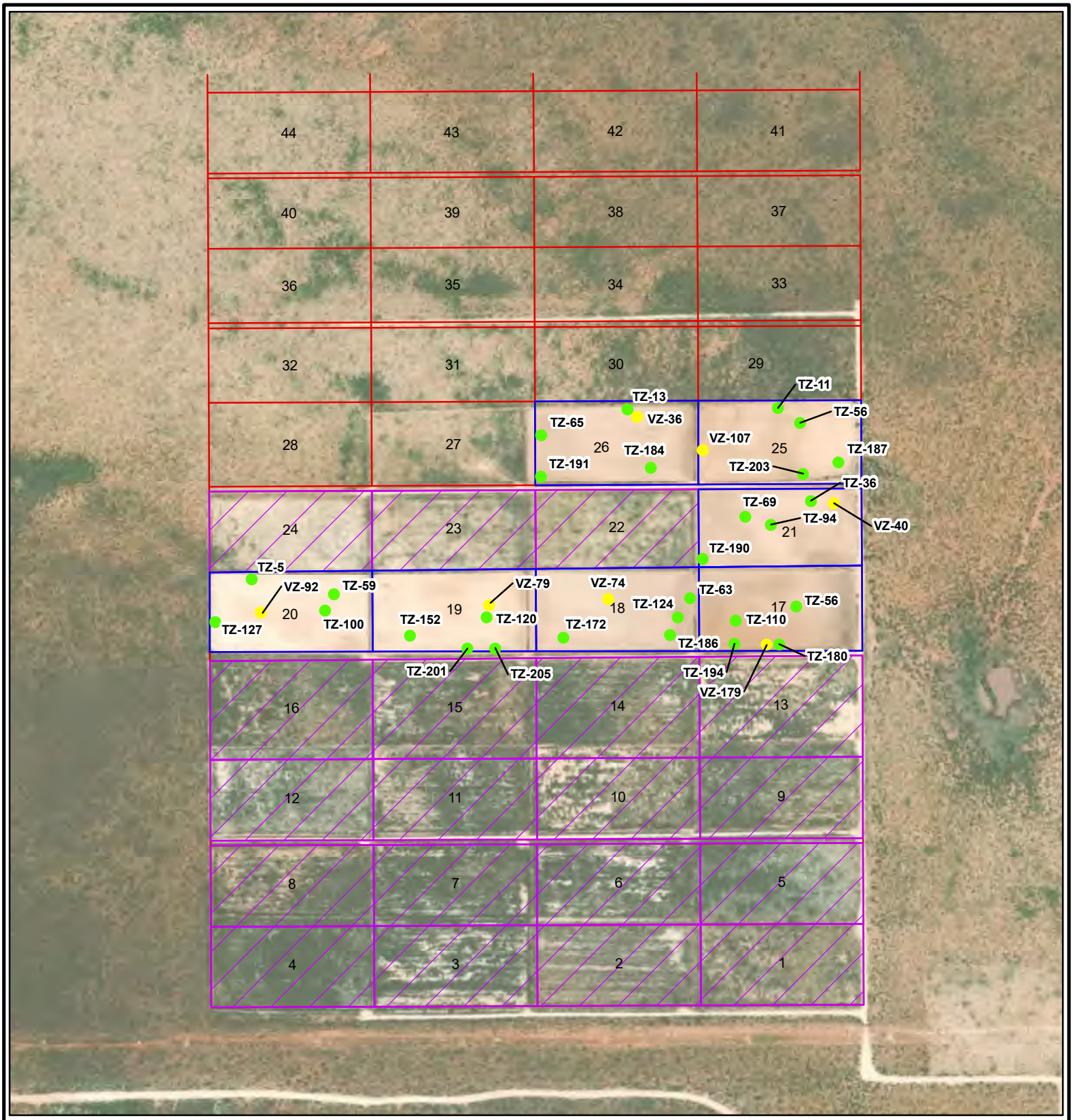
2020 ANNUAL REPORT

THIRD QUARTER 2020 SAMPLING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2021-01\FIGURE-4_SAMPLING_LOCATIONS_3Q2020.MXD SAVED: 2/2/2021 BY: MAI00749



LEGEND

- Treatment Zone Sample Locations (December 2020)
- Vadose Zone Sample Locations (December 2020)
- 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

2020 ANNUAL REPORT

FOURTH QUARTER 2020 SAMPLING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5

PATH: T:_ENV\CHEVRON_JAL-LANDFARM\GIS\MXD\2021-01\FIGURE-5_SAMPLING_LOCATIONS_4Q2020.MXD SAVED: 2/2/2021 BY: MAI00749

Appendix A

Laboratory Reports

eurofins | Environment Testing TestAmerica



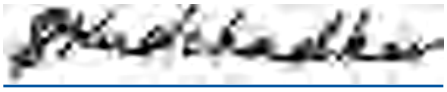
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-202930-1
Client Project/Site: Chevron - Jal Land Farm Soils 2020

For:
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 121
Midland, Texas 79701

Attn: Sarah Johnson



Authorized for release by:
4/2/2020 9:11:08 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.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 2020

Laboratory Job ID: 600-202930-1

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Method Summary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5035	Closed System Purge & Trap/Laboratory Preservation	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils 2020

Job ID: 600-202930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-202930-1	Cell26-Square96-5-2-3-200326	Solid	03/26/20 08:54	03/27/20 10:04	
600-202930-2	Cell25-Square3-5-2-3-200326	Solid	03/26/20 10:36	03/27/20 10:04	
600-202930-3	Cell21-Square182-5-2-3-200326	Solid	03/26/20 11:11	03/27/20 10:04	
600-202930-4	Cell17-Square200-5-2-3-200326	Solid	03/26/20 11:44	03/27/20 10:04	
600-202930-5	Cell18-Square163-5-2-3-200326	Solid	03/26/20 12:15	03/27/20 10:04	
600-202930-6	Cell19-Square144-5-2-3-200326	Solid	03/26/20 12:40	03/27/20 10:04	
600-202930-7	Cell20-Square141-5-2-3-200326	Solid	03/26/20 13:30	03/27/20 10:04	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell26-Square96-5-2-3-200326 Lab Sample ID: 600-202930-1

Date Collected: 03/26/20 08:54 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00276**	**J**	0.00480	0.000605	mg/Kg		03/27/20 14:10	03/30/20 16:21	1
Ethylbenzene	0.000980	U	0.00480	0.000980	mg/Kg		03/27/20 14:10	03/30/20 16:21	1
Toluene	**0.00837**		0.00480	0.00133	mg/Kg		03/27/20 14:10	03/30/20 16:21	1
Xylenes, Total	**0.00216**	**J**	0.00480	0.00109	mg/Kg		03/27/20 14:10	03/30/20 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*	*03/27/20 14:10*	*03/30/20 16:21*	*1*
Dibromofluoromethane	*99*		*68 - 140*	*03/27/20 14:10*	*03/30/20 16:21*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*03/27/20 14:10*	*03/30/20 16:21*	*1*
4-Bromofluorobenzene	*104*		*57 - 140*	*03/27/20 14:10*	*03/30/20 16:21*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.584	U	0.996	0.584	mg/Kg		03/27/20 10:19	03/30/20 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*70 - 130*	*03/27/20 10:19*	*03/30/20 12:28*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**29.8**		8.25	1.70	mg/Kg		03/30/20 09:49	03/31/20 15:17	1
C28-C36	**41.2**		8.25	4.97	mg/Kg		03/30/20 09:49	03/31/20 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*60 - 140*	*03/30/20 09:49*	*03/31/20 15:17*	*1*

Client Sample ID: Cell25-Square3-5-2-3-200326 Lab Sample ID: 600-202930-2

Date Collected: 03/26/20 10:36 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000615	U	0.00488	0.000615	mg/Kg		03/27/20 14:10	03/30/20 16:44	1
Ethylbenzene	0.000995	U	0.00488	0.000995	mg/Kg		03/27/20 14:10	03/30/20 16:44	1
Toluene	**0.00253**	**J**	0.00488	0.00135	mg/Kg		03/27/20 14:10	03/30/20 16:44	1
Xylenes, Total	0.00110	U	0.00488	0.00110	mg/Kg		03/27/20 14:10	03/30/20 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 130*	*03/27/20 14:10*	*03/30/20 16:44*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*03/27/20 14:10*	*03/30/20 16:44*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*03/27/20 14:10*	*03/30/20 16:44*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*03/27/20 14:10*	*03/30/20 16:44*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.561	U	0.958	0.561	mg/Kg		03/27/20 10:19	03/30/20 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*70 - 130*	*03/27/20 10:19*	*03/30/20 12:52*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell25-Square3-5-2-3-200326 Lab Sample ID: 600-202930-2

Date Collected: 03/26/20 10:36 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57.9		8.30	1.71	mg/Kg		03/30/20 09:49	03/31/20 15:51	1
C28-C36	43.1		8.30	5.00	mg/Kg		03/30/20 09:49	03/31/20 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*60 - 140*	*03/30/20 09:49*	*03/31/20 15:51*	*1*

Client Sample ID: Cell21-Square182-5-2-3-200326 Lab Sample ID: 600-202930-3

Date Collected: 03/26/20 11:11 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00106	J	0.00426	0.000537	mg/Kg		03/27/20 14:10	03/30/20 17:06	1
Ethylbenzene	0.000869	U	0.00426	0.000869	mg/Kg		03/27/20 14:10	03/30/20 17:06	1
Toluene	0.00382	J	0.00426	0.00118	mg/Kg		03/27/20 14:10	03/30/20 17:06	1
Xylenes, Total	0.000963	U	0.00426	0.000963	mg/Kg		03/27/20 14:10	03/30/20 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 130*	*03/27/20 14:10*	*03/30/20 17:06*	*1*
Dibromofluoromethane	*102*		*68 - 140*	*03/27/20 14:10*	*03/30/20 17:06*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*	*03/27/20 14:10*	*03/30/20 17:06*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*03/27/20 14:10*	*03/30/20 17:06*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.547	U	0.933	0.547	mg/Kg		03/27/20 10:19	03/30/20 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*03/27/20 10:19*	*03/30/20 13:16*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17.0		12.4	2.54	mg/Kg		03/30/20 09:49	04/01/20 06:46	1
C28-C36	7.44	U	12.4	7.44	mg/Kg		03/30/20 09:49	04/01/20 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*60 - 140*	*03/30/20 09:49*	*04/01/20 06:46*	*1*

Client Sample ID: Cell17-Square200-5-2-3-200326 Lab Sample ID: 600-202930-4

Date Collected: 03/26/20 11:44 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000661	U	0.00524	0.000661	mg/Kg		03/27/20 14:10	03/30/20 17:29	1
Ethylbenzene	0.00107	U	0.00524	0.00107	mg/Kg		03/27/20 14:10	03/30/20 17:29	1
Toluene	0.00279	J	0.00524	0.00145	mg/Kg		03/27/20 14:10	03/30/20 17:29	1
Xylenes, Total	0.00119	U	0.00524	0.00119	mg/Kg		03/27/20 14:10	03/30/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 130*	*03/27/20 14:10*	*03/30/20 17:29*	*1*
Dibromofluoromethane	*102*		*68 - 140*	*03/27/20 14:10*	*03/30/20 17:29*	*1*

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Released to Imaging: 5/25/2022 8:55:33 AM

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell17-Square200-5-2-3-200326 Lab Sample ID: 600-202930-4

Date Collected: 03/26/20 11:44 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*92*		*50 - 130*	*03/27/20 14:10*	*03/30/20 17:29*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*03/27/20 14:10*	*03/30/20 17:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.585	U	0.998	0.585	mg/Kg		03/27/20 10:19	03/30/20 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*03/27/20 10:19*	*03/30/20 13:39*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**481**		16.6	3.41	mg/Kg		03/30/20 09:49	04/01/20 07:52	2
C28-C36	**28.8**		16.6	9.97	mg/Kg		03/30/20 09:49	04/01/20 07:52	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*95*		*60 - 140*	*03/30/20 09:49*	*04/01/20 07:52*	*2*

Client Sample ID: Cell18-Square163-5-2-3-200326 Lab Sample ID: 600-202930-5

Date Collected: 03/26/20 12:15 **Matrix: Solid**
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00372**	**J**	0.00523	0.000659	mg/Kg		03/27/20 14:10	03/31/20 12:25	1
Ethylbenzene	0.00107	U	0.00523	0.00107	mg/Kg		03/27/20 14:10	03/31/20 12:25	1
Toluene	**0.00994**		0.00523	0.00144	mg/Kg		03/27/20 14:10	03/31/20 12:25	1
Xylenes, Total	**0.00241**	**J**	0.00523	0.00118	mg/Kg		03/27/20 14:10	03/31/20 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*61 - 130*	*03/27/20 14:10*	*03/31/20 12:25*	*1*
Dibromofluoromethane	*99*		*68 - 140*	*03/27/20 14:10*	*03/31/20 12:25*	*1*
Toluene-d8 (Surr)	*96*		*50 - 130*	*03/27/20 14:10*	*03/31/20 12:25*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*	*03/27/20 14:10*	*03/31/20 12:25*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.553	U	0.944	0.553	mg/Kg		03/27/20 10:19	03/30/20 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*114*		*70 - 130*	*03/27/20 10:19*	*03/30/20 14:03*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**53.1**		8.30	1.71	mg/Kg		03/30/20 09:49	03/31/20 18:07	1
C28-C36	**35.6**		8.30	5.00	mg/Kg		03/30/20 09:49	03/31/20 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*68*		*60 - 140*	*03/30/20 09:49*	*03/31/20 18:07*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell19-Square144-5-2-3-200326
Lab Sample ID: 600-202930-6
Date Collected: 03/26/20 12:40
Matrix: Solid
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00226**	**J**	0.00427	0.000539	mg/Kg		03/27/20 14:10	03/31/20 12:47	1
Ethylbenzene	0.000872	U	0.00427	0.000872	mg/Kg		03/27/20 14:10	03/31/20 12:47	1
Toluene	**0.00575**		0.00427	0.00118	mg/Kg		03/27/20 14:10	03/31/20 12:47	1
Xylenes, Total	**0.00156**	**J**	0.00427	0.000966	mg/Kg		03/27/20 14:10	03/31/20 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*61 - 130*	*03/27/20 14:10*	*03/31/20 12:47*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*03/27/20 14:10*	*03/31/20 12:47*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*	*03/27/20 14:10*	*03/31/20 12:47*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*03/27/20 14:10*	*03/31/20 12:47*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.570	U	0.973	0.570	mg/Kg		03/27/20 10:19	03/30/20 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*03/27/20 10:19*	*03/30/20 14:27*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10.2**	**J**	24.7	5.08	mg/Kg		03/30/20 09:49	04/01/20 08:28	1
C28-C36	14.9	U	24.7	14.9	mg/Kg		03/30/20 09:49	04/01/20 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*60 - 140*	*03/30/20 09:49*	*04/01/20 08:28*	*1*

Client Sample ID: Cell20-Square141-5-2-3-200326
Lab Sample ID: 600-202930-7
Date Collected: 03/26/20 13:30
Matrix: Solid
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00716**		0.00503	0.000633	mg/Kg		03/27/20 14:10	03/31/20 13:10	1
Ethylbenzene	**0.00115**	**J**	0.00503	0.00103	mg/Kg		03/27/20 14:10	03/31/20 13:10	1
Toluene	**0.0182**		0.00503	0.00139	mg/Kg		03/27/20 14:10	03/31/20 13:10	1
Xylenes, Total	**0.00450**	**J**	0.00503	0.00114	mg/Kg		03/27/20 14:10	03/31/20 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*	*03/27/20 14:10*	*03/31/20 13:10*	*1*
Dibromofluoromethane	*93*		*68 - 140*	*03/27/20 14:10*	*03/31/20 13:10*	*1*
Toluene-d8 (Surr)	*90*		*50 - 130*	*03/27/20 14:10*	*03/31/20 13:10*	*1*
4-Bromofluorobenzene	*103*		*57 - 140*	*03/27/20 14:10*	*03/31/20 13:10*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.601	U	1.03	0.601	mg/Kg		03/27/20 10:19	03/30/20 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*03/27/20 10:19*	*03/30/20 14:51*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell20-Square141-5-2-3-200326
Lab Sample ID: 600-202930-7
Date Collected: 03/26/20 13:30
Matrix: Solid
Date Received: 03/27/20 10:04

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	7.92	J	24.8	5.10	mg/Kg		03/30/20 09:49	04/01/20 09:02	1
C28-C36	14.9	U	24.8	14.9	mg/Kg		03/30/20 09:49	04/01/20 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*60 - 140*	*03/30/20 09:49*	*04/01/20 09:02*	*1*

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

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

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils 2020

Job ID: 600-202930-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-202930-1	Cell26-Square96-5-2-3-200326	90	99	93	104
600-202930-2	Cell25-Square3-5-2-3-200326	95	100	93	107
600-202930-3	Cell21-Square182-5-2-3-200326	91	102	94	106
600-202930-4	Cell17-Square200-5-2-3-200326	95	102	92	109
600-202930-5	Cell18-Square163-5-2-3-200326	93	99	96	105
600-202930-6	Cell19-Square144-5-2-3-200326	97	100	92	109
600-202930-7	Cell20-Square141-5-2-3-200326	83	93	90	103
LCS 600-291467/3	Lab Control Sample	74	84	79	94
LCS 600-291587/3	Lab Control Sample	88	101	97	109
LCSD 600-291467/4	Lab Control Sample Dup	72	85	78	95
LCSD 600-291587/4	Lab Control Sample Dup	78	99	97	108
MB 600-291467/6	Method Blank	89	88	79	88
MB 600-291587/6	Method Blank	102	103	95	110

Surrogate Legend

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

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-202930-1	Cell26-Square96-5-2-3-200326	107
600-202930-2	Cell25-Square3-5-2-3-200326	114
600-202930-3	Cell21-Square182-5-2-3-200326	98
600-202930-4	Cell17-Square200-5-2-3-200326	94
600-202930-5	Cell18-Square163-5-2-3-200326	114
600-202930-6	Cell19-Square144-5-2-3-200326	99
600-202930-7	Cell20-Square141-5-2-3-200326	100
LCS 600-291382/1-A	Lab Control Sample	125
LCSD 600-291382/2-A	Lab Control Sample Dup	117
MB 600-291382/3-A	Method Blank	122

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

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 (60-140)							
600-202930-1	Cell26-Square96-5-2-3-200326	74							
600-202930-2	Cell25-Square3-5-2-3-200326	73							
600-202930-3	Cell21-Square182-5-2-3-200326	104							
600-202930-4	Cell17-Square200-5-2-3-200326	95							
600-202930-5	Cell18-Square163-5-2-3-200326	68							
600-202930-6	Cell19-Square144-5-2-3-200326	95							
600-202930-7	Cell20-Square141-5-2-3-200326	85							
LCS 600-291501/2-A	Lab Control Sample	84							
MB 600-291501/1-A	Method Blank	103							

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

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

Lab Sample ID: MB 600-291467/6 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291467

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			03/30/20 12:15	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			03/30/20 12:15	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			03/30/20 12:15	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			03/30/20 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*		*03/30/20 12:15*	*1*
Dibromofluoromethane	*88*		*68 - 140*		*03/30/20 12:15*	*1*
Toluene-d8 (Surr)	*79*		*50 - 130*		*03/30/20 12:15*	*1*
4-Bromofluorobenzene	*88*		*57 - 140*		*03/30/20 12:15*	*1*

Lab Sample ID: LCS 600-291467/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04870		mg/Kg		97	70 - 131
Ethylbenzene	0.0500	0.05298		mg/Kg		106	66 - 130
Toluene	0.0500	0.04840		mg/Kg		97	67 - 130
Xylenes, Total	0.100	0.1012		mg/Kg		101	63 - 130
m-Xylene & p-Xylene	0.0500	0.04946		mg/Kg		99	64 - 130
o-Xylene	0.0500	0.05171		mg/Kg		103	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*74*		*61 - 130*
Dibromofluoromethane	*84*		*68 - 140*
Toluene-d8 (Surr)	*79*		*50 - 130*
4-Bromofluorobenzene	*94*		*57 - 140*

Lab Sample ID: LCSD 600-291467/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291467

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04800		mg/Kg		96	70 - 131	1	30
Ethylbenzene	0.0500	0.05060		mg/Kg		101	66 - 130	5	30
Toluene	0.0500	0.04658		mg/Kg		93	67 - 130	4	30
Xylenes, Total	0.100	0.09686		mg/Kg		97	63 - 130	4	30
m-Xylene & p-Xylene	0.0500	0.04741		mg/Kg		95	64 - 130	4	30
o-Xylene	0.0500	0.04945		mg/Kg		99	62 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*72*		*61 - 130*
Dibromofluoromethane	*85*		*68 - 140*
Toluene-d8 (Surr)	*78*		*50 - 130*
4-Bromofluorobenzene	*95*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

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

Lab Sample ID: MB 600-291587/6 **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291587

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			03/31/20 12:03	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			03/31/20 12:03	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			03/31/20 12:03	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			03/31/20 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 130*		*03/31/20 12:03*	*1*
Dibromofluoromethane	*103*		*68 - 140*		*03/31/20 12:03*	*1*
Toluene-d8 (Surr)	*95*		*50 - 130*		*03/31/20 12:03*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*		*03/31/20 12:03*	*1*

Lab Sample ID: LCS 600-291587/3 **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04866		mg/Kg		97	70 - 131
Ethylbenzene	0.0500	0.05377		mg/Kg		108	66 - 130
Toluene	0.0500	0.04902		mg/Kg		98	67 - 130
Xylenes, Total	0.100	0.1016		mg/Kg		102	63 - 130
m-Xylene & p-Xylene	0.0500	0.04992		mg/Kg		100	64 - 130
o-Xylene	0.0500	0.05164		mg/Kg		103	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*
Dibromofluoromethane	*101*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*109*		*57 - 140*

Lab Sample ID: LCSD 600-291587/4 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04745		mg/Kg		95	70 - 131	3	30
Ethylbenzene	0.0500	0.05229		mg/Kg		105	66 - 130	3	30
Toluene	0.0500	0.04738		mg/Kg		95	67 - 130	3	30
Xylenes, Total	0.100	0.1006		mg/Kg		101	63 - 130	1	30
m-Xylene & p-Xylene	0.0500	0.04921		mg/Kg		98	64 - 130	1	30
o-Xylene	0.0500	0.05141		mg/Kg		103	62 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*
Dibromofluoromethane	*99*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*108*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-291382/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 291384 — **Prep Batch: 291382**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		03/27/20 10:19	03/27/20 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*122*		*70 - 130*	*03/27/20 10:19*	*03/27/20 14:00*	*1*

Lab Sample ID: LCS 600-291382/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 291384 — **Prep Batch: 291382**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.00	5.291		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*125*		*70 - 130*

Lab Sample ID: LCSD 600-291382/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 291384 — **Prep Batch: 291382**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.00	4.790		mg/Kg		96	70 - 130	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*70 - 130*

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

Lab Sample ID: MB 600-291501/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 291598 — **Prep Batch: 291501**

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.71	U	8.30	1.71	mg/Kg		03/30/20 09:49	03/31/20 09:34	1
C28-C36	5.00	U	8.30	5.00	mg/Kg		03/30/20 09:49	03/31/20 09:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*60 - 140*	*03/30/20 09:49*	*03/31/20 09:34*	*1*

Lab Sample ID: LCS 600-291501/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 291598 — **Prep Batch: 291501**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	66.48		mg/Kg		100	66 - 134

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

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

Lab Sample ID: LCS 600-291501/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 291598 **Prep Batch: 291501**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	84		60 - 140

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

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

Prep: 5035

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

Method: 8015B - Gasoline Range Organics - (GC)

Prep: 5030B

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	1.00	0.586	mg/Kg

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

Prep: 3546

Analyte	MQL	MDL	Units
C28-C36	8.30	5.00	mg/Kg
Diesel Range Organics [C10-C28]	8.30	1.71	mg/Kg

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

GC/MS VOA

Prep Batch: 291430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	5035	
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	5035	
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	5035	
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	5035	
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	5035	
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	5035	
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	5035	

Analysis Batch: 291467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	8260B	291430
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	8260B	291430
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	8260B	291430
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	8260B	291430
MB 600-291467/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-291467/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-291467/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 291587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	8260B	291430
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	8260B	291430
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	8260B	291430
MB 600-291587/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-291587/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-291587/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC VOA

Prep Batch: 291382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	5030B	
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	5030B	
MB 600-291382/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-291382/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-291382/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 291384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-291382/3-A	Method Blank	Total/NA	Solid	8015B	291382
LCS 600-291382/1-A	Lab Control Sample	Total/NA	Solid	8015B	291382
LCSD 600-291382/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	291382

Analysis Batch: 291505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	8015B	291382

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

GC VOA (Continued)

Analysis Batch: 291505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	8015B	291382
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	8015B	291382
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	8015B	291382
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	8015B	291382
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	8015B	291382
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	8015B	291382

GC Semi VOA

Prep Batch: 291501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	3546	
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	3546	
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	3546	
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	3546	
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	3546	
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	3546	
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	3546	
MB 600-291501/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-291501/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 291598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-202930-1	Cell26-Square96-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-2	Cell25-Square3-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-3	Cell21-Square182-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-4	Cell17-Square200-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-5	Cell18-Square163-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-6	Cell19-Square144-5-2-3-200326	Total/NA	Solid	8015B	291501
600-202930-7	Cell20-Square141-5-2-3-200326	Total/NA	Solid	8015B	291501
MB 600-291501/1-A	Method Blank	Total/NA	Solid	8015B	291501
LCS 600-291501/2-A	Lab Control Sample	Total/NA	Solid	8015B	291501

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell26-Square96-5-2-3-200326 Lab Sample ID: 600-202930-1

Date Collected: 03/26/20 08:54 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291467	03/30/20 16:21	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 12:28	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	03/31/20 15:17	RJV	TAL HOU

Client Sample ID: Cell25-Square3-5-2-3-200326 Lab Sample ID: 600-202930-2

Date Collected: 03/26/20 10:36 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291467	03/30/20 16:44	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 12:52	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	03/31/20 15:51	RJV	TAL HOU

Client Sample ID: Cell21-Square182-5-2-3-200326 Lab Sample ID: 600-202930-3

Date Collected: 03/26/20 11:11 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291467	03/30/20 17:06	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 13:16	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	04/01/20 06:46	RJV	TAL HOU

Client Sample ID: Cell17-Square200-5-2-3-200326 Lab Sample ID: 600-202930-4

Date Collected: 03/26/20 11:44 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291467	03/30/20 17:29	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 13:39	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		2	291598	04/01/20 07:52	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Client Sample ID: Cell18-Square163-5-2-3-200326 Lab Sample ID: 600-202930-5

Date Collected: 03/26/20 12:15 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291587	03/31/20 12:25	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 14:03	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	03/31/20 18:07	RJV	TAL HOU

Client Sample ID: Cell19-Square144-5-2-3-200326 Lab Sample ID: 600-202930-6

Date Collected: 03/26/20 12:40 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291587	03/31/20 12:47	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 14:27	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	04/01/20 08:28	RJV	TAL HOU

Client Sample ID: Cell20-Square141-5-2-3-200326 Lab Sample ID: 600-202930-7

Date Collected: 03/26/20 13:30 **Matrix: Solid**
Date Received: 03/27/20 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			291430	03/27/20 14:10	WS1	TAL HOU
Total/NA	Analysis	8260B		1	291587	03/31/20 13:10	WS1	TAL HOU
Total/NA	Prep	5030B			291382	03/27/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015B		1	291505	03/30/20 14:51	WS1	TAL HOU
Total/NA	Prep	3546			291501	03/30/20 09:49	EAT	TAL HOU
Total/NA	Analysis	8015B		1	291598	04/01/20 09:02	RJV	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-202930-1
Project/Site: Chevron - Jal Land Farm Soils 2020

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
8015B	3546	Solid	C28-C36

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, , TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Justin Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-75417-20388.1
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested: —			
City: Midland	TAT Requested (days): Standard			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
Site: Jal Landfarm	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, 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/ ORO	8260B - BTEX Only	8015B_GRO - Gasoline Range Organics	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
Cell26 - Square 96 - S-2-3 - 200326	03262020	0854	G	Solid	N	N	✓	✓	✓	6	
Cell25 - Square 3 - S-2-3 - 200326	03262020	1036	G	Solid	N	N	✓	✓	✓	6	
Cell21 - Square 182 - S-2-3 - 200326	03262020	1111	G	Solid	N	N	✓	✓	✓	6	
Cell17 - Square 200 - S-2-3 - 200326	03262020	1144	G	Solid	N	N	✓	✓	✓	6	
Cell18 - Square 163 - S-2-3 - 200326	03262020	1215	G	Solid	N	N	✓	✓	✓	6	
Cell19 - Square 144 - S-2-3 - 200326	03262020	1240	G	Solid	N	N	✓	✓	✓	6	
Cell20 - Square 141 - S-2-3 - 200326	03262020	1330	G	Solid	N	N	✓	✓	✓	6	
				Solid							
				Solid							
	03262020			Solid							
				Solid							

600-202930 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:
	03262020 1500	Arcadis	YCRS	3/27/20 1009	EQ
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

Loc: 600
202930

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 MAR 27 10:04

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: YP CARRIER/DRIVER: Fed Ex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
4009	~~Y~~ / N	Y / ~~N~~	0.9	178	-0.1	0.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				3/27/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS: CS # 1075779

3/27/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-202930-1

Login Number: 202930 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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.

eurofins | Environment Testing America



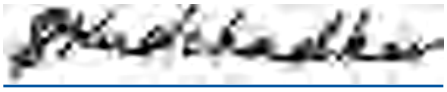
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204355-1
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:
5/12/2020 3:25:07 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204355-1

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Case Narrative

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

Job ID: 600-204355-1

Job ID: 600-204355-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204355-1

Receipt
The samples were received on 4/28/2020 10:01 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 2 coolers at receipt time were 1.8°C and 2.3°C

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

Department GC/MS Semi VOA
Method 8270C_LL: 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: Cell20-Square-105-S-2-3-200427 (600-204355-3). These results have been reported and qualifie

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

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

Department Diesel Range Organics
Cell20-Square-91-S-2-3-200427 (600-204355-1), Cell20-Square-99-S-2-3-200427 (600-204355-2), Cell20-Square-105-S-2-3-200427 (600-204355-3), Cell20-Square-187-S-2-3-200427 (600-204355-4) and Cell19-Square-171-S-2-3-200427 (600-204355-

Method 8015B_DRO: Surrogate recovery for the following sample was outside the upper control limit: Cell19-Square-171-S-2-3-200427 (600-204355-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performe

Method 8015B_DRO: The following samples needs to be re-digested/re-extracted due to low surrogate recovery.:
Cell20-Square-99-S-2-3-200427 (600-204355-2) and Cell20-Square-105-S-2-3-200427 (600-204355-3

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

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

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

Department Metals
Method 6020: Due to the high concentration of barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-469288 and analytical batch 160-469693 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.
(600-204355-C-1-B MS) and (600-204355-C-1-C MSD

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-469288 and analytical batch 160-469693 were outside control limits for Iron. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.
(600-204355-C-1-B MS) and (600-204355-C-1-C MSD

Method 6020: preparation batch 160-469288 and analytical batch 160-469693
The following samples were diluted due to the abundance of non-target analytes: Cell20-Square-91-S-2-3-200427 (600-204355-1), Cell20-Square-99-S-2-3-200427 (600-204355-2), Cell20-Square-105-S-2-3-200427 (600-204355-3), Cell20-Square-187-S-2-3-200427 (600-204355-4), Cell19-Square-171-S-2-3-200427 (600-204355-5), (600-204355-C-1-B MS), (600-204355-C-1-C MSD), (600-204355-C-1-A PDS) and (600-204355-C-1-A SD). Elevated reporting limits (RLs) are provide

Case Narrative

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

Job ID: 600-204355-1

Job ID: 600-204355-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

Method Summary

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

Job ID: 600-204355-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
6020	Metals (ICP/MS)	SW846	TAL SL
7471A	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
7471A	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU

Protocol References:

ASTM = ASTM International
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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL SL = Eurofins TestAmerica, 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: 600-204355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204355-1	Cell20-Square-91-S-2-3-200427	Solid	04/27/20 12:17	04/28/20 10:01	
600-204355-2	Cell20-Square-99-S-2-3-200427	Solid	04/27/20 12:48	04/28/20 10:01	
600-204355-3	Cell20-Square-105-S-2-3-200427	Solid	04/27/20 13:25	04/28/20 10:01	
600-204355-4	Cell20-Square-187-S-2-3-200427	Solid	04/27/20 13:49	04/28/20 10:01	
600-204355-5	Cell19-Square-171-S-2-3-200427	Solid	04/27/20 14:20	04/28/20 10:01	

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-91-S-2-3-200427

Date Collected: 04/27/20 12:17
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-1

Matrix: Solid
Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00111	U	0.0124	0.00111	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,1-Dichloroethene	0.00151	U	0.00618	0.00151	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
trans-1,2-Dichloroethene	0.00141	U	0.00618	0.00141	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Methyl tert-butyl ether	0.00226	U	0.00618	0.00226	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Methylene Chloride	**0.00707**	**J b**	0.0124	0.00271	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
cis-1,2-Dichloroethene	0.00103	U	0.00618	0.00103	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Carbon tetrachloride	0.00140	U	0.00618	0.00140	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Benzene	0.000779	U	0.00618	0.000779	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,2-Dichloroethane	0.00111	U	0.00618	0.00111	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Trichloroethene	0.00173	U	0.00618	0.00173	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,1,1-Trichloroethane	0.000915	U	0.00618	0.000915	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,1-Dichloroethane	0.00108	U	0.00618	0.00108	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,2-Dichloropropane	0.000878	U	0.00618	0.000878	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Chloroform	0.000816	U	0.0124	0.000816	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Toluene	**0.00636**		0.00618	0.00171	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,1,2-Trichloroethane	0.000902	U	0.00618	0.000902	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Tetrachloroethene	0.000878	U	0.00618	0.000878	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,2-Dibromoethane	0.00126	U	0.00618	0.00126	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Ethylbenzene	0.00126	U	0.00618	0.00126	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Xylenes, Total	**0.00290**	**J**	0.00618	0.00140	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
Styrene	0.000878	U	0.00618	0.000878	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,1,2,2-Tetrachloroethane	0.00108	U	0.00618	0.00108	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,4-Dichlorobenzene	0.000816	U	0.00618	0.000816	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,2-Dichlorobenzene	0.000989	U	0.00618	0.000989	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1
1,2,4-Trichlorobenzene	0.00243	U	0.00618	0.00243	mg/Kg	☼	04/28/20 13:12	04/29/20 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*	*04/28/20 13:12*	*04/29/20 16:06*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*04/28/20 13:12*	*04/29/20 16:06*	*1*
Toluene-d8 (Surr)	*112*		*50 - 130*	*04/28/20 13:12*	*04/29/20 16:06*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*04/28/20 13:12*	*04/29/20 16:06*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00126	U	0.0420	0.00126	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Anthracene	0.00161	U	0.0420	0.00161	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Benzo[a]anthracene	0.00174	U	0.0420	0.00174	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Benzo[b]fluoranthene	0.00217	U	0.0420	0.00217	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Benzo[k]fluoranthene	0.00188	U	0.0420	0.00188	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Benzo[g,h,i]perylene	0.00639	U	0.0420	0.00639	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Benzo[a]pyrene	0.00203	U	0.0420	0.00203	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Chrysene	0.00129	U	0.0420	0.00129	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Dibenz(a,h)anthracene	0.00457	U	0.0420	0.00457	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Fluoranthene	0.00392	U	0.0420	0.00392	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Fluorene	0.00297	U	0.0420	0.00297	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Indeno[1,2,3-cd]pyrene	0.00441	U	0.0420	0.00441	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
2-Methylnaphthalene	**0.00394**	**J**	0.0420	0.00345	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Phenanthrene	0.00624	U	0.0420	0.00624	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Pyrene	0.00231	U	0.0420	0.00231	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
1-Methylnaphthalene	**0.00232**	**J**	0.0420	0.00198	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-91-S-2-3-200427

Date Collected: 04/27/20 12:17
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-1

Matrix: Solid
Percent Solids: 79.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.00170	U	0.0420	0.00170	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Acenaphthene	0.00181	U	0.0420	0.00181	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Atrazine	0.00632	U	0.0420	0.00632	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1
Pentachlorophenol	0.00504	U	0.210	0.00504	mg/Kg	☼	05/05/20 08:03	05/06/20 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*38 - 130*	*05/05/20 08:03*	*05/06/20 09:22*	*1*
Nitrobenzene-d5	*73*		*10 - 155*	*05/05/20 08:03*	*05/06/20 09:22*	*1*
Terphenyl-d14	*100*		*53 - 134*	*05/05/20 08:03*	*05/06/20 09:22*	*1*
2-Fluorophenol	*78*		*25 - 132*	*05/05/20 08:03*	*05/06/20 09:22*	*1*
2,4,6-Tribromophenol	*84*		*10 - 148*	*05/05/20 08:03*	*05/06/20 09:22*	*1*
Phenol-d5 (Surr)	*71*		*27 - 130*	*05/05/20 08:03*	*05/06/20 09:22*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.773	U	1.32	0.773	mg/Kg	☼	04/30/20 09:48	04/30/20 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*04/30/20 09:48*	*04/30/20 12:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.15	U	6.30	2.15	mg/Kg	☼	05/05/20 12:09	05/06/20 19:16	1
Oil Range Organics (C28-C35)	**13.4**		6.30	6.30	mg/Kg	☼	05/05/20 12:09	05/06/20 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*60 - 140*	*05/05/20 12:09*	*05/06/20 19:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00202	U	0.0211	0.00202	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1221	0.0109	U	0.0211	0.0109	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1232	0.00845	U	0.0211	0.00845	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1242	0.00156	U	0.0211	0.00156	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1248	0.00314	U	0.0211	0.00314	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1254	0.00279	U	0.0211	0.00279	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1
PCB-1260	0.0170	U	0.0211	0.0170	mg/Kg	☼	05/08/20 08:12	05/11/20 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*10 - 150*	*05/08/20 08:12*	*05/11/20 15:13*	*1*
DCB Decachlorobiphenyl	*115*		*10 - 150*	*05/08/20 08:12*	*05/11/20 15:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.4**		5.05	0.675	mg/Kg	☼		05/07/20 01:59	1
Nitrate as N	**24.5**		2.53	0.317	mg/Kg	☼		05/07/20 01:59	1
Fluoride	**5.94**		2.53	0.760	mg/Kg	☼		05/07/20 01:59	1
Nitrite as N	0.375	U	2.53	0.375	mg/Kg	☼		05/07/20 01:59	1
Sulfate	**332**		6.32	1.21	mg/Kg	☼		05/07/20 01:59	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-91-S-2-3-200427

Lab Sample ID: 600-204355-1
Date Collected: 04/27/20 12:17
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 79.2

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.38	U	3.68	1.38	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Arsenic	7.35	U	18.4	7.35	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Barium	**552**		36.8	9.19	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Beryllium	0.735	U	1.84	0.735	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Cadmium	0.441	U	0.919	0.441	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Chromium	8.27	U	18.4	8.27	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Iron	**2050**	**b**	221	110	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Manganese	**28.5**		9.19	3.68	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Lead	2.30	U	5.51	2.30	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Antimony	3.68	U	9.19	3.68	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Selenium	5.88	U	9.19	5.88	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Thallium	3.68	U	9.19	3.68	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Zinc	36.8	U	91.9	36.8	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Sodium	**190**	**J**	368	138	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20
Uranium	0.735	U	1.84	0.735	mg/Kg	☼	05/01/20 09:43	05/05/20 16:43	20

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24.0**	**b**	19.5	4.11	ug/Kg	☼	05/06/20 10:29	05/08/20 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		1.0	1.0	%			04/30/20 08:58	1
Percent Solids	**79.2**		1.0	1.0	%			04/30/20 08:58	1
Cyanide, Total	0.0220	U ^	0.146	0.0220	mg/Kg	☼	04/30/20 11:50	05/01/20 10:32	1
pH	**9.2**		0.01	0.01	SU			04/30/20 10:52	1
Phenols, Total	0.265	U	0.316	0.265	mg/Kg	☼	04/30/20 11:57	05/01/20 07:13	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**117**		10.0	10.0	mg/L			05/06/20 12:50	1

Client Sample ID: Cell20-Square-99-S-2-3-200427

Lab Sample ID: 600-204355-2
Date Collected: 04/27/20 12:48
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00108	U	0.0120	0.00108	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,1-Dichloroethene	0.00146	U	0.00600	0.00146	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
trans-1,2-Dichloroethene	0.00137	U	0.00600	0.00137	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Methyl tert-butyl ether	0.00220	U	0.00600	0.00220	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Methylene Chloride	**0.00749**	**J b**	0.0120	0.00263	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
cis-1,2-Dichloroethene	0.000996	U	0.00600	0.000996	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Carbon tetrachloride	0.00136	U	0.00600	0.00136	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Benzene	0.000756	U	0.00600	0.000756	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,2-Dichloroethane	0.00108	U	0.00600	0.00108	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Trichloroethene	0.00168	U	0.00600	0.00168	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,1,1-Trichloroethane	0.000888	U	0.00600	0.000888	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,1-Dichloroethane	0.00104	U	0.00600	0.00104	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,2-Dichloropropane	0.000852	U	0.00600	0.000852	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-99-S-2-3-200427

Date Collected: 04/27/20 12:48
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-2

Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.000792	U	0.0120	0.000792	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Toluene	**0.00613**		0.00600	0.00166	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,1,2-Trichloroethane	0.000876	U	0.00600	0.000876	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Tetrachloroethene	0.000852	U	0.00600	0.000852	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,2-Dibromoethane	0.00122	U	0.00600	0.00122	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Ethylbenzene	0.00122	U	0.00600	0.00122	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Xylenes, Total	**0.00269**	**J**	0.00600	0.00136	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
Styrene	0.000852	U	0.00600	0.000852	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,1,2,2-Tetrachloroethane	0.00104	U	0.00600	0.00104	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,4-Dichlorobenzene	0.000792	U	0.00600	0.000792	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,2-Dichlorobenzene	0.000960	U	0.00600	0.000960	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1
1,2,4-Trichlorobenzene	0.00236	U	0.00600	0.00236	mg/Kg	☼	04/28/20 13:12	04/29/20 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*04/28/20 13:12*	*04/29/20 16:28*	*1*
Dibromofluoromethane	*94*		*68 - 140*	*04/28/20 13:12*	*04/29/20 16:28*	*1*
Toluene-d8 (Surr)	*110*		*50 - 130*	*04/28/20 13:12*	*04/29/20 16:28*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*04/28/20 13:12*	*04/29/20 16:28*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00116	U	0.0386	0.00116	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Anthracene	0.00148	U	0.0386	0.00148	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Benzo[a]anthracene	0.00160	U	0.0386	0.00160	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Benzo[b]fluoranthene	0.00199	U	0.0386	0.00199	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Benzo[k]fluoranthene	0.00173	U	0.0386	0.00173	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Benzo[g,h,i]perylene	0.00588	U	0.0386	0.00588	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Benzo[a]pyrene	0.00187	U	0.0386	0.00187	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Chrysene	0.00118	U	0.0386	0.00118	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Dibenz(a,h)anthracene	0.00421	U	0.0386	0.00421	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Fluoranthene	0.00361	U	0.0386	0.00361	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Fluorene	0.00274	U	0.0386	0.00274	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Indeno[1,2,3-cd]pyrene	0.00406	U	0.0386	0.00406	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
2-Methylnaphthalene	**0.0120**	**J**	0.0386	0.00318	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Phenanthrene	0.00574	U	0.0386	0.00574	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Pyrene	0.00212	U	0.0386	0.00212	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
1-Methylnaphthalene	**0.00651**	**J**	0.0386	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Naphthalene	0.00157	U	0.0386	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Acenaphthene	0.00167	U	0.0386	0.00167	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Atrazine	0.00582	U	0.0386	0.00582	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1
Pentachlorophenol	0.00464	U	0.194	0.00464	mg/Kg	☼	05/05/20 08:03	05/06/20 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*38 - 130*	*05/05/20 08:03*	*05/06/20 09:45*	*1*
Nitrobenzene-d5	*86*		*10 - 155*	*05/05/20 08:03*	*05/06/20 09:45*	*1*
Terphenyl-d14	*107*		*53 - 134*	*05/05/20 08:03*	*05/06/20 09:45*	*1*
2-Fluorophenol	*88*		*25 - 132*	*05/05/20 08:03*	*05/06/20 09:45*	*1*
2,4,6-Tribromophenol	*89*		*10 - 148*	*05/05/20 08:03*	*05/06/20 09:45*	*1*
Phenol-d5 (Surr)	*80*		*27 - 130*	*05/05/20 08:03*	*05/06/20 09:45*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-99-S-2-3-200427
Lab Sample ID: 600-204355-2
Date Collected: 04/27/20 12:48
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 86.3

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.728	U	1.24	0.728	mg/Kg	☼	04/30/20 09:48	04/30/20 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*70 - 130*	*04/30/20 09:48*	*04/30/20 13:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.97	U	5.77	1.97	mg/Kg	☼	05/05/20 12:09	05/06/20 19:50	1
Oil Range Organics (C28-C35)	**12.7**		5.77	5.77	mg/Kg	☼	05/05/20 12:09	05/06/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*42*	*X*	*60 - 140*	*05/05/20 12:09*	*05/06/20 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00185	U	0.0193	0.00185	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1221	0.00997	U	0.0193	0.00997	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1232	0.00774	U	0.0193	0.00774	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1242	0.00143	U	0.0193	0.00143	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1248	0.00288	U	0.0193	0.00288	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1254	0.00255	U	0.0193	0.00255	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1
PCB-1260	0.0156	U	0.0193	0.0156	mg/Kg	☼	05/08/20 08:12	05/11/20 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*10 - 150*	*05/08/20 08:12*	*05/11/20 15:39*	*1*
DCB Decachlorobiphenyl	*146*		*10 - 150*	*05/08/20 08:12*	*05/11/20 15:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.11**		4.64	0.619	mg/Kg	☼		05/07/20 03:09	1
Nitrate as N	**24.0**		2.32	0.291	mg/Kg	☼		05/07/20 03:09	1
Fluoride	**4.14**		2.32	0.697	mg/Kg	☼		05/07/20 03:09	1
Nitrite as N	0.344	U	2.32	0.344	mg/Kg	☼		05/07/20 03:09	1
Sulfate	**317**		5.80	1.11	mg/Kg	☼		05/07/20 03:09	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.782	U	2.08	0.782	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Arsenic	**4.46**	**J**	10.4	4.17	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Barium	**163**		20.8	5.21	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Beryllium	0.417	U	1.04	0.417	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Cadmium	0.250	U	0.521	0.250	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Chromium	4.69	U	10.4	4.69	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Iron	**1770**	**b**	125	62.5	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Manganese	**17.0**		5.21	2.08	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Lead	**1.33**	**J**	3.13	1.30	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Antimony	2.08	U	5.21	2.08	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Selenium	3.33	U	5.21	3.33	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Thallium	2.08	U	5.21	2.08	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Zinc	20.8	U	52.1	20.8	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20
Sodium	**151**	**J**	208	78.2	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-99-S-2-3-200427 Lab Sample ID: 600-204355-2

Date Collected: 04/27/20 12:48 Matrix: Solid
Date Received: 04/28/20 10:01 Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.436	J	1.04	0.417	mg/Kg	☼	05/01/20 09:43	05/05/20 17:17	20

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.61	J b	19.1	4.02	ug/Kg	☼	05/06/20 10:29	05/08/20 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		1.0	1.0	%			04/30/20 08:58	1
Percent Solids	86.3		1.0	1.0	%			04/30/20 08:58	1
Cyanide, Total	0.0203	U ^	0.135	0.0203	mg/Kg	☼	04/30/20 11:50	05/01/20 10:34	1
pH	9.0		0.01	0.01	SU			04/30/20 10:52	1
Phenols, Total	0.243	U	0.290	0.243	mg/Kg	☼	04/30/20 11:57	05/01/20 07:15	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	168		10.0	10.0	mg/L			05/06/20 12:50	1

Client Sample ID: Cell20-Square-105-S-2-3-200427 Lab Sample ID: 600-204355-3

Date Collected: 04/27/20 13:25 Matrix: Solid
Date Received: 04/28/20 10:01 Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00106	U	0.0117	0.00106	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,1-Dichloroethene	0.00143	U	0.00587	0.00143	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
trans-1,2-Dichloroethene	0.00134	U	0.00587	0.00134	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Methyl tert-butyl ether	0.00215	U	0.00587	0.00215	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Methylene Chloride	0.00669	J b	0.0117	0.00257	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
cis-1,2-Dichloroethene	0.000975	U	0.00587	0.000975	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Carbon tetrachloride	0.00133	U	0.00587	0.00133	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Benzene	0.000740	U	0.00587	0.000740	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,2-Dichloroethane	0.00106	U	0.00587	0.00106	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Trichloroethene	0.00164	U	0.00587	0.00164	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,1,1-Trichloroethane	0.000869	U	0.00587	0.000869	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,1-Dichloroethane	0.00102	U	0.00587	0.00102	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,2-Dichloropropane	0.000834	U	0.00587	0.000834	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Chloroform	0.000775	U	0.0117	0.000775	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Toluene	0.00570	J	0.00587	0.00162	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,1,2-Trichloroethane	0.000857	U	0.00587	0.000857	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Tetrachloroethene	0.000834	U	0.00587	0.000834	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,2-Dibromoethane	0.00120	U	0.00587	0.00120	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Ethylbenzene	0.00120	U	0.00587	0.00120	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Xylenes, Total	0.00259	J	0.00587	0.00133	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
Styrene	0.000834	U	0.00587	0.000834	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,1,2,2-Tetrachloroethane	0.00102	U	0.00587	0.00102	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,4-Dichlorobenzene	0.000775	U	0.00587	0.000775	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,2-Dichlorobenzene	0.000939	U	0.00587	0.000939	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1
1,2,4-Trichlorobenzene	0.00231	U	0.00587	0.00231	mg/Kg	☼	04/28/20 13:12	04/29/20 16:51	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-105-S-2-3-200427

Date Collected: 04/27/20 13:25
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-3

Matrix: Solid
Percent Solids: 86.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		61 - 130	04/28/20 13:12	04/29/20 16:51	1
Dibromofluoromethane	93		68 - 140	04/28/20 13:12	04/29/20 16:51	1
Toluene-d8 (Surr)	111		50 - 130	04/28/20 13:12	04/29/20 16:51	1
4-Bromofluorobenzene	102		57 - 140	04/28/20 13:12	04/29/20 16:51	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00116	U	0.0387	0.00116	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Anthracene	0.00149	U	0.0387	0.00149	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Benzo[a]anthracene	0.00160	U	0.0387	0.00160	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Benzo[b]fluoranthene	0.00200	U	0.0387	0.00200	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Benzo[k]fluoranthene	0.00173	U	0.0387	0.00173	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Benzo[g,h,i]perylene	0.00589	U	0.0387	0.00589	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Benzo[a]pyrene	0.00187	U	0.0387	0.00187	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Chrysene	0.00119	U	0.0387	0.00119	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Dibenz(a,h)anthracene	0.00422	U	0.0387	0.00422	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Fluoranthene	0.00361	U	0.0387	0.00361	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Fluorene	0.00274	U	0.0387	0.00274	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Indeno[1,2,3-cd]pyrene	0.00407	U	0.0387	0.00407	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
2-Methylnaphthalene	0.00318	U	0.0387	0.00318	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Phenanthrene	0.00575	U	0.0387	0.00575	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Pyrene	0.00213	U	0.0387	0.00213	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
1-Methylnaphthalene	**0.00246**	**J**	0.0387	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Naphthalene	0.00157	U	0.0387	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Acenaphthene	0.00167	U	0.0387	0.00167	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Atrazine	0.00584	U	0.0387	0.00584	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1
Pentachlorophenol	0.00465	U	0.194	0.00465	mg/Kg	☼	05/05/20 08:03	05/06/20 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		38 - 130	05/05/20 08:03	05/06/20 10:09	1
Nitrobenzene-d5	64		10 - 155	05/05/20 08:03	05/06/20 10:09	1
Terphenyl-d14	49	X	53 - 134	05/05/20 08:03	05/06/20 10:09	1
2-Fluorophenol	82		25 - 132	05/05/20 08:03	05/06/20 10:09	1
2,4,6-Tribromophenol	59		10 - 148	05/05/20 08:03	05/06/20 10:09	1
Phenol-d5 (Surr)	73		27 - 130	05/05/20 08:03	05/06/20 10:09	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.675	U	1.15	0.675	mg/Kg	☼	04/30/20 09:48	04/30/20 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	109		70 - 130	04/30/20 09:48	04/30/20 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.98	U	5.80	1.98	mg/Kg	☼	05/05/20 12:09	05/06/20 20:24	1
Oil Range Organics (C28-C35)	**13.4**		5.80	5.80	mg/Kg	☼	05/05/20 12:09	05/06/20 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	54	X	60 - 140	05/05/20 12:09	05/06/20 20:24	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-105-S-2-3-200427
Date Collected: 04/27/20 13:25
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-3
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00185	U	0.0193	0.00185	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1221	0.00998	U	0.0193	0.00998	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1232	0.00775	U	0.0193	0.00775	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1242	0.00143	U	0.0193	0.00143	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1248	0.00288	U	0.0193	0.00288	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1254	0.00256	U	0.0193	0.00256	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1
PCB-1260	0.0156	U	0.0193	0.0156	mg/Kg	☼	05/08/20 08:12	05/11/20 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*10 - 150*	*05/08/20 08:12*	*05/11/20 16:04*	*1*
DCB Decachlorobiphenyl	*148*		*10 - 150*	*05/08/20 08:12*	*05/11/20 16:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.48**	**J**	4.65	0.621	mg/Kg	☼		05/07/20 03:32	1
Nitrate as N	**3.76**		2.32	0.292	mg/Kg	☼		05/07/20 03:32	1
Fluoride	**4.36**		2.32	0.699	mg/Kg	☼		05/07/20 03:32	1
Nitrite as N	0.345	U	2.32	0.345	mg/Kg	☼		05/07/20 03:32	1
Sulfate	**98.1**		5.81	1.11	mg/Kg	☼		05/07/20 03:32	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.826	U	2.20	0.826	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Arsenic	**4.72**	**J**	11.0	4.40	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Barium	**318**		22.0	5.50	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Beryllium	0.440	U	1.10	0.440	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Cadmium	0.264	U	0.550	0.264	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Chromium	4.95	U	11.0	4.95	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Iron	**2460**	**b**	132	66.0	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Manganese	**21.5**		5.50	2.20	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Lead	**1.38**	**J**	3.30	1.38	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Antimony	2.20	U	5.50	2.20	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Selenium	3.52	U	5.50	3.52	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Thallium	2.20	U	5.50	2.20	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Zinc	**22.7**	**J**	55.0	22.0	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Sodium	**117**	**J**	220	82.6	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20
Uranium	**0.524**	**J**	1.10	0.440	mg/Kg	☼	05/01/20 09:43	05/05/20 17:23	20

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**12.0**	**J b**	19.4	4.09	ug/Kg	☼	05/06/20 10:29	05/08/20 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		1.0	1.0	%			04/30/20 08:58	1
Percent Solids	**86.0**		1.0	1.0	%			04/30/20 08:58	1
Cyanide, Total	0.0202	U ^	0.135	0.0202	mg/Kg	☼	04/30/20 11:50	05/01/20 10:35	1
pH	**9.1**		0.01	0.01	SU			04/30/20 10:52	1
Phenols, Total	**0.318**		0.291	0.244	mg/Kg	☼	04/30/20 11:57	05/01/20 07:16	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-105-S-2-3-200427 Lab Sample ID: 600-204355-3

Date Collected: 04/27/20 13:25 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 86.0**

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**106**		10.0	10.0	mg/L			05/06/20 12:50	1

Client Sample ID: Cell20-Square-187-S-2-3-200427 Lab Sample ID: 600-204355-4

Date Collected: 04/27/20 13:49 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 86.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00109	U	0.0121	0.00109	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,1-Dichloroethene	0.00147	U	0.00604	0.00147	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
trans-1,2-Dichloroethene	0.00138	U	0.00604	0.00138	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Methyl tert-butyl ether	0.00221	U	0.00604	0.00221	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Methylene Chloride	**0.00790**	**J b**	0.0121	0.00265	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
cis-1,2-Dichloroethene	0.00100	U	0.00604	0.00100	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Carbon tetrachloride	0.00136	U	0.00604	0.00136	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Benzene	0.000761	U	0.00604	0.000761	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,2-Dichloroethane	0.00109	U	0.00604	0.00109	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Trichloroethene	**0.00228**	**J**	0.00604	0.00169	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,1,1-Trichloroethane	0.000894	U	0.00604	0.000894	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,1-Dichloroethane	0.00105	U	0.00604	0.00105	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,2-Dichloropropane	0.000858	U	0.00604	0.000858	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Chloroform	0.000797	U	0.0121	0.000797	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Toluene	**0.0111**		0.00604	0.00167	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,1,2-Trichloroethane	0.000882	U	0.00604	0.000882	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Tetrachloroethene	0.000858	U	0.00604	0.000858	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,2-Dibromoethane	0.00123	U	0.00604	0.00123	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Ethylbenzene	0.00123	U	0.00604	0.00123	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Xylenes, Total	**0.00344**	**J**	0.00604	0.00136	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
Styrene	0.000858	U	0.00604	0.000858	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,1,2,2-Tetrachloroethane	0.00105	U	0.00604	0.00105	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,4-Dichlorobenzene	0.000797	U	0.00604	0.000797	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,2-Dichlorobenzene	0.000966	U	0.00604	0.000966	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1
1,2,4-Trichlorobenzene	0.00238	U	0.00604	0.00238	mg/Kg	☼	04/28/20 13:12	04/29/20 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*	*04/28/20 13:12*	*04/29/20 17:13*	*1*
Dibromofluoromethane	*101*		*68 - 140*	*04/28/20 13:12*	*04/29/20 17:13*	*1*
Toluene-d8 (Surr)	*118*		*50 - 130*	*04/28/20 13:12*	*04/29/20 17:13*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*04/28/20 13:12*	*04/29/20 17:13*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00116	U	0.0386	0.00116	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Anthracene	0.00148	U	0.0386	0.00148	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Benzo[a]anthracene	0.00160	U	0.0386	0.00160	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Benzo[b]fluoranthene	0.00199	U	0.0386	0.00199	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Benzo[k]fluoranthene	0.00173	U	0.0386	0.00173	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Benzo[g,h,i]perylene	0.00588	U	0.0386	0.00588	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Benzo[a]pyrene	0.00187	U	0.0386	0.00187	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Chrysene	0.00118	U	0.0386	0.00118	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-187-S-2-3-200427
Date Collected: 04/27/20 13:49
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-4
Matrix: Solid
Percent Solids: 86.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.00421	U	0.0386	0.00421	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Fluoranthene	0.00361	U	0.0386	0.00361	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Fluorene	0.00274	U	0.0386	0.00274	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Indeno[1,2,3-cd]pyrene	0.00406	U	0.0386	0.00406	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
2-Methylnaphthalene	0.00318	U	0.0386	0.00318	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Phenanthrene	0.00574	U	0.0386	0.00574	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Pyrene	0.00212	U	0.0386	0.00212	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
1-Methylnaphthalene	0.00182	U	0.0386	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Naphthalene	0.00157	U	0.0386	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Acenaphthene	0.00167	U	0.0386	0.00167	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Atrazine	0.00582	U	0.0386	0.00582	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1
Pentachlorophenol	0.00464	U	0.194	0.00464	mg/Kg	☼	05/05/20 08:03	05/06/20 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*38 - 130*	*05/05/20 08:03*	*05/06/20 10:32*	*1*
Nitrobenzene-d5	*87*		*10 - 155*	*05/05/20 08:03*	*05/06/20 10:32*	*1*
Terphenyl-d14	*106*		*53 - 134*	*05/05/20 08:03*	*05/06/20 10:32*	*1*
2-Fluorophenol	*91*		*25 - 132*	*05/05/20 08:03*	*05/06/20 10:32*	*1*
2,4,6-Tribromophenol	*92*		*10 - 148*	*05/05/20 08:03*	*05/06/20 10:32*	*1*
Phenol-d5 (Surr)	*82*		*27 - 130*	*05/05/20 08:03*	*05/06/20 10:32*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.731	U	1.25	0.731	mg/Kg	☼	04/30/20 09:48	04/30/20 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*70 - 130*	*04/30/20 09:48*	*04/30/20 13:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.98	U	5.77	1.98	mg/Kg	☼	05/05/20 12:09	05/06/20 20:57	1
Oil Range Organics (C28-C35)	**10.8**		5.77	5.77	mg/Kg	☼	05/05/20 12:09	05/06/20 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*60 - 140*	*05/05/20 12:09*	*05/06/20 20:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0193	0.00184	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1221	0.00995	U	0.0193	0.00995	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1232	0.00772	U	0.0193	0.00772	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1242	0.00143	U	0.0193	0.00143	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1248	0.00287	U	0.0193	0.00287	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1254	0.00255	U	0.0193	0.00255	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1
PCB-1260	0.0156	U	0.0193	0.0156	mg/Kg	☼	05/08/20 08:12	05/11/20 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*10 - 150*	*05/08/20 08:12*	*05/11/20 16:29*	*1*
DCB Decachlorobiphenyl	*127*		*10 - 150*	*05/08/20 08:12*	*05/11/20 16:29*	*1*

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-187-S-2-3-200427

Lab Sample ID: 600-204355-4
Date Collected: 04/27/20 13:49
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 86.2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.93**	**J**	4.64	0.619	mg/Kg	☼		05/07/20 03:55	1
Nitrate as N	**5.12**		2.32	0.291	mg/Kg	☼		05/07/20 03:55	1
Fluoride	**7.59**		2.32	0.697	mg/Kg	☼		05/07/20 03:55	1
Nitrite as N	0.344	U	2.32	0.344	mg/Kg	☼		05/07/20 03:55	1
Sulfate	**73.0**		5.80	1.11	mg/Kg	☼		05/07/20 03:55	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.846	U	2.26	0.846	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Arsenic	**6.95**	**J**	11.3	4.51	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Barium	**181**		22.6	5.64	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Beryllium	0.451	U	1.13	0.451	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Cadmium	0.271	U	0.564	0.271	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Chromium	5.08	U	11.3	5.08	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Iron	**2200**	**b**	135	67.7	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Manganese	**21.8**		5.64	2.26	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Lead	1.41	U	3.39	1.41	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Antimony	2.26	U	5.64	2.26	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Selenium	3.61	U	5.64	3.61	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Thallium	2.26	U	5.64	2.26	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Zinc	22.6	U	56.4	22.6	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Sodium	**167**	**J**	226	84.6	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20
Uranium	**0.826**	**J**	1.13	0.451	mg/Kg	☼	05/01/20 09:43	05/05/20 17:30	20

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**13.2**	**J b**	17.9	3.77	ug/Kg	☼	05/06/20 10:29	05/08/20 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		1.0	1.0	%			04/30/20 08:58	1
Percent Solids	**86.2**		1.0	1.0	%			04/30/20 08:58	1
Cyanide, Total	0.0193	U ^	0.129	0.0193	mg/Kg	☼	04/30/20 11:50	05/01/20 10:36	1
pH	**8.7**		0.01	0.01	SU			04/30/20 10:52	1
Phenols, Total	0.243	U	0.290	0.243	mg/Kg	☼	04/30/20 11:57	05/01/20 07:17	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**79.0**		10.0	10.0	mg/L			05/06/20 12:50	1

Client Sample ID: Cell19-Square-171-S-2-3-200427

Lab Sample ID: 600-204355-5
Date Collected: 04/27/20 14:20
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000977	U	0.0109	0.000977	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,1-Dichloroethene	0.00132	U	0.00543	0.00132	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
trans-1,2-Dichloroethene	0.00124	U	0.00543	0.00124	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Methyl tert-butyl ether	0.00199	U	0.00543	0.00199	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Methylene Chloride	**0.00664**	**J b**	0.0109	0.00238	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell19-Square-171-S-2-3-200427
Date Collected: 04/27/20 14:20
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-5
Matrix: Solid
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.000901	U	0.00543	0.000901	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Carbon tetrachloride	0.00123	U	0.00543	0.00123	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Benzene	0.000684	U	0.00543	0.000684	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,2-Dichloroethane	0.000977	U	0.00543	0.000977	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Trichloroethene	0.00152	U	0.00543	0.00152	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,1,1-Trichloroethane	0.000803	U	0.00543	0.000803	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,1-Dichloroethane	0.000945	U	0.00543	0.000945	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,2-Dichloropropane	0.000771	U	0.00543	0.000771	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Chloroform	0.000717	U	0.0109	0.000717	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Toluene	**0.00548**		0.00543	0.00150	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,1,2-Trichloroethane	0.000793	U	0.00543	0.000793	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Tetrachloroethene	0.000771	U	0.00543	0.000771	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,2-Dibromoethane	0.00111	U	0.00543	0.00111	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Ethylbenzene	0.00111	U	0.00543	0.00111	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Xylenes, Total	**0.00248**	**J**	0.00543	0.00123	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
Styrene	0.000771	U	0.00543	0.000771	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,1,2,2-Tetrachloroethane	0.000945	U	0.00543	0.000945	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,4-Dichlorobenzene	0.000717	U	0.00543	0.000717	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,2-Dichlorobenzene	0.000869	U	0.00543	0.000869	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1
1,2,4-Trichlorobenzene	0.00214	U	0.00543	0.00214	mg/Kg	☼	04/28/20 13:12	04/29/20 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*04/28/20 13:12*	*04/29/20 17:35*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*04/28/20 13:12*	*04/29/20 17:35*	*1*
Toluene-d8 (Surr)	*112*		*50 - 130*	*04/28/20 13:12*	*04/29/20 17:35*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*	*04/28/20 13:12*	*04/29/20 17:35*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.0111**	**J**	0.0369	0.00111	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Anthracene	**0.0234**	**J**	0.0369	0.00142	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Benzo[a]anthracene	0.00153	U	0.0369	0.00153	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Benzo[b]fluoranthene	0.00190	U	0.0369	0.00190	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Benzo[k]fluoranthene	0.00165	U	0.0369	0.00165	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Benzo[g,h,i]perylene	0.00561	U	0.0369	0.00561	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Benzo[a]pyrene	0.00178	U	0.0369	0.00178	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Chrysene	0.00113	U	0.0369	0.00113	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Dibenz(a,h)anthracene	0.00402	U	0.0369	0.00402	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Fluoranthene	**0.0135**	**J**	0.0369	0.00344	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Fluorene	**0.0233**	**J**	0.0369	0.00261	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Indeno[1,2,3-cd]pyrene	0.00388	U	0.0369	0.00388	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
2-Methylnaphthalene	**0.0243**	**J**	0.0369	0.00303	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Phenanthrene	**0.0279**	**J**	0.0369	0.00548	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Pyrene	**0.0131**	**J**	0.0369	0.00203	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
1-Methylnaphthalene	**0.0171**	**J**	0.0369	0.00174	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Naphthalene	0.00150	U	0.0369	0.00150	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Acenaphthene	**0.0162**	**J**	0.0369	0.00159	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Atrazine	0.00556	U	0.0369	0.00556	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1
Pentachlorophenol	0.00443	U	0.185	0.00443	mg/Kg	☼	05/05/20 08:03	05/06/20 10:55	1

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell19-Square-171-S-2-3-200427
Date Collected: 04/27/20 14:20
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-5
Matrix: Solid
Percent Solids: 90.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		38 - 130	05/05/20 08:03	05/06/20 10:55	1
Nitrobenzene-d5	75		10 - 155	05/05/20 08:03	05/06/20 10:55	1
Terphenyl-d14	105		53 - 134	05/05/20 08:03	05/06/20 10:55	1
2-Fluorophenol	87		25 - 132	05/05/20 08:03	05/06/20 10:55	1
2,4,6-Tribromophenol	90		10 - 148	05/05/20 08:03	05/06/20 10:55	1
Phenol-d5 (Surr)	78		27 - 130	05/05/20 08:03	05/06/20 10:55	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.641	U	1.09	0.641	mg/Kg	☼	04/30/20 09:48	04/30/20 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		70 - 130	04/30/20 09:48	04/30/20 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.88	U	5.51	1.88	mg/Kg	☼	05/05/20 12:09	05/06/20 21:31	1
Oil Range Organics (C28-C35)	5.51	U	5.51	5.51	mg/Kg	☼	05/05/20 12:09	05/06/20 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	152	X	60 - 140	05/05/20 12:09	05/06/20 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00176	U	0.0184	0.00176	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1221	0.00949	U	0.0184	0.00949	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1232	0.00737	U	0.0184	0.00737	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1242	0.00136	U	0.0184	0.00136	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1248	0.00274	U	0.0184	0.00274	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1254	0.00243	U	0.0184	0.00243	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1
PCB-1260	0.0149	U	0.0184	0.0149	mg/Kg	☼	05/08/20 08:12	05/11/20 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		10 - 150	05/08/20 08:12	05/11/20 16:55	1
DCB Decachlorobiphenyl	135		10 - 150	05/08/20 08:12	05/11/20 16:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.63**		4.43	0.591	mg/Kg	☼		05/07/20 04:18	1
Nitrate as N	**9.20**		2.21	0.278	mg/Kg	☼		05/07/20 04:18	1
Fluoride	**2.58**		2.21	0.666	mg/Kg	☼		05/07/20 04:18	1
Nitrite as N	0.329	U	2.21	0.329	mg/Kg	☼		05/07/20 04:18	1
Sulfate	**137**		5.54	1.06	mg/Kg	☼		05/07/20 04:18	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.809	U	2.16	0.809	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Arsenic	4.31	U	10.8	4.31	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Barium	**324**		21.6	5.39	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Beryllium	0.431	U	1.08	0.431	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Cadmium	0.259	U	0.539	0.259	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Chromium	4.85	U	10.8	4.85	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20

Client Sample Results

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

Job ID: 600-204355-1

Client Sample ID: Cell19-Square-171-S-2-3-200427

Lab Sample ID: 600-204355-5
Date Collected: 04/27/20 14:20
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1990**	**b**	129	64.7	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Manganese	**18.2**		5.39	2.16	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Lead	1.35	U	3.24	1.35	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Antimony	2.16	U	5.39	2.16	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Selenium	3.45	U	5.39	3.45	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Thallium	2.16	U	5.39	2.16	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Zinc	21.6	U	53.9	21.6	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Sodium	**120**	**J**	216	80.9	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20
Uranium	**0.438**	**J**	1.08	0.431	mg/Kg	☼	05/01/20 09:43	05/05/20 17:57	20

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**10.5**	**J b**	18.5	3.90	ug/Kg	☼	05/06/20 10:29	05/08/20 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		1.0	1.0	%			04/30/20 08:58	1
Percent Solids	**90.3**		1.0	1.0	%			04/30/20 08:58	1
Cyanide, Total	**1.18**		0.123	0.0185	mg/Kg	☼	04/30/20 11:50	05/01/20 11:19	1
pH	**8.8**		0.01	0.01	SU			04/30/20 10:52	1
Phenols, Total	**0.414**		0.277	0.232	mg/Kg	☼	04/30/20 11:57	05/01/20 07:20	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**90.0**		10.0	10.0	mg/L			05/06/20 12:50	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

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.
X	Surrogate recovery exceeds control limits

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.
X	Surrogate recovery exceeds control limits

HPLC/IC

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

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
F	Duplicate RPD exceeds the control limit
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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
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)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Surrogate Summary

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

Job ID: 600-204355-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-204355-1	Cell20-Square-91-S-2-3-200427	80	97	112	108
600-204355-2	Cell20-Square-99-S-2-3-200427	79	94	110	106
600-204355-3	Cell20-Square-105-S-2-3-200427	75	93	111	102
600-204355-4	Cell20-Square-187-S-2-3-200427	81	101	118	111
600-204355-5	Cell19-Square-171-S-2-3-200427	75	95	112	105
LCS 600-293518/3	Lab Control Sample	80	100	107	98
LCSD 600-293518/4	Lab Control Sample Dup	75	98	102	94
MB 600-293518/6	Method Blank	67	91	113	109

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (38-130)	NBZ (10-155)	TPHL (53-134)	2FP (25-132)	TBP (10-148)	PHL (27-130)
600-204355-1	Cell20-Square-91-S-2-3-200427	78	73	100	78	84	71
600-204355-2	Cell20-Square-99-S-2-3-200427	92	86	107	88	89	80
600-204355-3	Cell20-Square-105-S-2-3-200427	67	64	49 X	82	59	73
600-204355-4	Cell20-Square-187-S-2-3-200427	89	87	106	91	92	82
600-204355-5	Cell19-Square-171-S-2-3-200427	88	75	105	87	90	78
LCS 600-293845/2-A	Lab Control Sample	63	52	107	53	75	45
MB 600-293845/1-A	Method Blank	93	92	110	98	58	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-204355-1	Cell20-Square-91-S-2-3-200427	101
600-204355-2	Cell20-Square-99-S-2-3-200427	108

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-204355-3	Cell20-Square-105-S-2-3-20042	109
600-204355-4	Cell20-Square-187-S-2-3-20042	111
600-204355-5	Cell19-Square-171-S-2-3-20042	110
LCS 600-293597/1-A	Lab Control Sample	105
LCSD 600-293597/2-A	Lab Control Sample Dup	104
MB 600-293597/3-A	Method Blank	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-204355-1	Cell20-Square-91-S-2-3-200427	101
600-204355-2	Cell20-Square-99-S-2-3-20042	42 X
600-204355-3	Cell20-Square-105-S-2-3-20042	54 X
600-204355-4	Cell20-Square-187-S-2-3-20042	96
600-204355-5	Cell19-Square-171-S-2-3-20042	152 X
LCS 600-293878/2-A	Lab Control Sample	69
LCSD 600-293878/23-A	Lab Control Sample Dup	88
MB 600-293878/1-A	Method Blank	73

Surrogate Legend

OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-204355-1	Cell20-Square-91-S-2-3-200427	77	115
600-204355-2	Cell20-Square-99-S-2-3-20042	107	146
600-204355-3	Cell20-Square-105-S-2-3-20042	118	148
600-204355-4	Cell20-Square-187-S-2-3-20042	89	127
600-204355-5	Cell19-Square-171-S-2-3-20042	97	135
LCS 600-294110/2-A	Lab Control Sample	53	113
MB 600-294110/1-A	Method Blank	61	104

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: MB 600-293518/6
Matrix: Solid
Analysis Batch: 293518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			04/29/20 15:44	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			04/29/20 15:44	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			04/29/20 15:44	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			04/29/20 15:44	1
Methylene Chloride	0.007476	J	0.0100	0.00219	mg/Kg			04/29/20 15:44	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			04/29/20 15:44	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			04/29/20 15:44	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			04/29/20 15:44	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			04/29/20 15:44	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			04/29/20 15:44	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			04/29/20 15:44	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			04/29/20 15:44	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			04/29/20 15:44	1
Chloroform	0.000660	U	0.0100	0.000660	mg/Kg			04/29/20 15:44	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			04/29/20 15:44	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			04/29/20 15:44	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			04/29/20 15:44	1
1,2-Dibromoethane	0.00102	U	0.00500	0.00102	mg/Kg			04/29/20 15:44	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			04/29/20 15:44	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			04/29/20 15:44	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			04/29/20 15:44	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			04/29/20 15:44	1
1,4-Dichlorobenzene	0.000660	U	0.00500	0.000660	mg/Kg			04/29/20 15:44	1
1,2-Dichlorobenzene	0.000800	U	0.00500	0.000800	mg/Kg			04/29/20 15:44	1
1,2,4-Trichlorobenzene	0.00197	U	0.00500	0.00197	mg/Kg			04/29/20 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*61 - 130*		*04/29/20 15:44*	*1*
Dibromofluoromethane	*91*		*68 - 140*		*04/29/20 15:44*	*1*
Toluene-d8 (Surr)	*113*		*50 - 130*		*04/29/20 15:44*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*		*04/29/20 15:44*	*1*

Lab Sample ID: LCS 600-293518/3
Matrix: Solid
Analysis Batch: 293518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.0500	0.04446		mg/Kg		89	40 - 148
1,1-Dichloroethene	0.0500	0.03929		mg/Kg		79	62 - 142
trans-1,2-Dichloroethene	0.0500	0.04194		mg/Kg		84	69 - 130
Methyl tert-butyl ether	0.0500	0.04973		mg/Kg		99	63 - 132
Methylene Chloride	0.0500	0.04532		mg/Kg		91	61 - 150
cis-1,2-Dichloroethene	0.0500	0.04541		mg/Kg		91	70 - 130
Carbon tetrachloride	0.0500	0.04106		mg/Kg		82	58 - 130
Benzene	0.0500	0.04466		mg/Kg		89	70 - 131
1,2-Dichloroethane	0.0500	0.04017		mg/Kg		80	58 - 137
Trichloroethene	0.0500	0.05577		mg/Kg		112	63 - 135
1,1,1-Trichloroethane	0.0500	0.04110		mg/Kg		82	59 - 130

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: LCS 600-293518/3
Matrix: Solid
Analysis Batch: 293518

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.04056		mg/Kg		81	63 - 140
1,2-Dichloropropane	0.0500	0.04545		mg/Kg		91	70 - 130
Chloroform	0.0500	0.04967		mg/Kg		99	69 - 130
Toluene	0.0500	0.04972		mg/Kg		99	67 - 130
1,1,2-Trichloroethane	0.0500	0.05148		mg/Kg		103	67 - 134
Tetrachloroethene	0.0500	0.06053		mg/Kg		121	43 - 143
1,2-Dibromoethane	0.0500	0.05324		mg/Kg		106	65 - 136
Ethylbenzene	0.0500	0.05507		mg/Kg		110	66 - 130
m-Xylene & p-Xylene	0.0500	0.04945		mg/Kg		99	64 - 130
Xylenes, Total	0.100	0.1037		mg/Kg		104	63 - 130
o-Xylene	0.0500	0.05427		mg/Kg		109	62 - 130
Styrene	0.0500	0.05955		mg/Kg		119	65 - 133
1,1,2,2-Tetrachloroethane	0.0500	0.03853		mg/Kg		77	61 - 138
1,4-Dichlorobenzene	0.0500	0.05232		mg/Kg		105	65 - 131
1,2-Dichlorobenzene	0.0500	0.05439		mg/Kg		109	61 - 131
1,2,4-Trichlorobenzene	0.0500	0.06555		mg/Kg		131	53 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
Dibromofluoromethane	*100*		*68 - 140*
Toluene-d8 (Surr)	*107*		*50 - 130*
4-Bromofluorobenzene	*98*		*57 - 140*

Lab Sample ID: LCSD 600-293518/4
Matrix: Solid
Analysis Batch: 293518

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
Vinyl chloride	0.0500	0.04223		mg/Kg		84	40 - 148	5	30
1,1-Dichloroethene	0.0500	0.03981		mg/Kg		80	62 - 142	1	30
trans-1,2-Dichloroethene	0.0500	0.04210		mg/Kg		84	69 - 130	0	30
Methyl tert-butyl ether	0.0500	0.04744		mg/Kg		95	63 - 132	5	30
Methylene Chloride	0.0500	0.04256		mg/Kg		85	61 - 150	6	30
cis-1,2-Dichloroethene	0.0500	0.04493		mg/Kg		90	70 - 130	1	30
Carbon tetrachloride	0.0500	0.04153		mg/Kg		83	58 - 130	1	30
Benzene	0.0500	0.04505		mg/Kg		90	70 - 131	1	30
1,2-Dichloroethane	0.0500	0.03799		mg/Kg		76	58 - 137	6	30
Trichloroethene	0.0500	0.05580		mg/Kg		112	63 - 135	0	30
1,1,1-Trichloroethane	0.0500	0.04063		mg/Kg		81	59 - 130	1	30
1,1-Dichloroethane	0.0500	0.04042		mg/Kg		81	63 - 140	0	30
1,2-Dichloropropane	0.0500	0.04468		mg/Kg		89	70 - 130	2	30
Chloroform	0.0500	0.04762		mg/Kg		95	69 - 130	4	30
Toluene	0.0500	0.04766		mg/Kg		95	67 - 130	4	30
1,1,2-Trichloroethane	0.0500	0.04863		mg/Kg		97	67 - 134	6	30
Tetrachloroethene	0.0500	0.05968		mg/Kg		119	43 - 143	1	30
1,2-Dibromoethane	0.0500	0.05018		mg/Kg		100	65 - 136	6	30
Ethylbenzene	0.0500	0.05415		mg/Kg		108	66 - 130	2	30
m-Xylene & p-Xylene	0.0500	0.04885		mg/Kg		98	64 - 130	1	30

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: LCSD 600-293518/4
Matrix: Solid
Analysis Batch: 293518

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
Xylenes, Total			0.100	0.1018		mg/Kg		102	63 - 130	2	30
o-Xylene			0.0500	0.05295		mg/Kg		106	62 - 130	2	30
Styrene			0.0500	0.05810		mg/Kg		116	65 - 133	2	30
1,1,2,2-Tetrachloroethane			0.0500	0.03555		mg/Kg		71	61 - 138	8	30
1,4-Dichlorobenzene			0.0500	0.05046		mg/Kg		101	65 - 131	4	30
1,2-Dichlorobenzene			0.0500	0.05147		mg/Kg		103	61 - 131	6	30
1,2,4-Trichlorobenzene			0.0500	0.06062		mg/Kg		121	53 - 136	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*98*		*68 - 140*
Toluene-d8 (Surr)	*102*		*50 - 130*
4-Bromofluorobenzene	*94*		*57 - 140*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.000999	U	0.0333	0.000999	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Anthracene	0.00128	U	0.0333	0.00128	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]anthracene	0.00138	U	0.0333	0.00138	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[b]fluoranthene	0.00172	U	0.0333	0.00172	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[k]fluoranthene	0.00149	U	0.0333	0.00149	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[g,h,i]perylene	0.00507	U	0.0333	0.00507	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]pyrene	0.00161	U	0.0333	0.00161	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Chrysene	0.00102	U	0.0333	0.00102	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Dibenz(a,h)anthracene	0.00363	U	0.0333	0.00363	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Fluoranthene	0.00311	U	0.0333	0.00311	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Fluorene	0.00236	U	0.0333	0.00236	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0333	0.00350	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
2-Methylnaphthalene	0.00274	U	0.0333	0.00274	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Phenanthrene	0.00495	U	0.0333	0.00495	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pyrene	0.00183	U	0.0333	0.00183	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
1-Methylnaphthalene	0.00157	U	0.0333	0.00157	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Naphthalene	0.00135	U	0.0333	0.00135	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Acenaphthene	0.00144	U	0.0333	0.00144	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Atrazine	0.00502	U	0.0333	0.00502	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/05/20 08:03	05/06/20 07:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*38 - 130*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Nitrobenzene-d5	*92*		*10 - 155*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Terphenyl-d14	*110*		*53 - 134*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2-Fluorophenol	*98*		*25 - 132*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2,4,6-Tribromophenol	*58*		*10 - 148*	*05/05/20 08:03*	*05/06/20 07:25*	*1*

QC Sample Results

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

Job ID: 600-204355-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	83		27 - 130	05/05/20 08:03	05/06/20 07:25	1

Lab Sample ID: LCS 600-293845/2-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.667	0.5186		mg/Kg		78	39 - 130
Anthracene	0.667	0.6980		mg/Kg		105	51 - 130
Benzo[a]anthracene	0.667	0.7441		mg/Kg		112	54 - 130
Benzo[b]fluoranthene	0.667	0.8595		mg/Kg		129	41 - 139
Benzo[k]fluoranthene	0.667	0.7915		mg/Kg		119	42 - 134
Benzo[g,h,i]perylene	0.667	0.7469		mg/Kg		112	38 - 142
Benzo[a]pyrene	0.667	0.7112		mg/Kg		107	44 - 131
Chrysene	0.667	0.7604		mg/Kg		114	52 - 130
Dibenz(a,h)anthracene	0.667	0.7360		mg/Kg		110	40 - 137
Fluoranthene	0.667	0.7534		mg/Kg		113	53 - 130
Fluorene	0.667	0.5893		mg/Kg		88	46 - 130
Indeno[1,2,3-cd]pyrene	0.667	0.7732		mg/Kg		116	35 - 146
2-Methylnaphthalene	0.667	0.5127		mg/Kg		77	43 - 130
Phenanthrene	0.667	0.6682		mg/Kg		100	51 - 130
Pyrene	0.667	0.7264		mg/Kg		109	53 - 130
1-Methylnaphthalene	0.667	0.4654		mg/Kg		70	43 - 130
Naphthalene	0.667	0.4054		mg/Kg		61	40 - 130
Acenaphthene	0.667	0.5042		mg/Kg		76	42 - 130
Atrazine	0.667	0.4546		mg/Kg		68	10 - 140
Pentachlorophenol	1.33	1.046		mg/Kg		78	40 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	63		38 - 130
Nitrobenzene-d5	52		10 - 155
Terphenyl-d14	107		53 - 134
2-Fluorophenol	53		25 - 132
2,4,6-Tribromophenol	75		10 - 148
Phenol-d5 (Surr)	45		27 - 130

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-293597/3-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		04/30/20 09:48	04/30/20 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130	04/30/20 09:48	04/30/20 12:20	1

QC Sample Results

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

Job ID: 600-204355-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 600-293597/1-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			5.00	5.562		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*

Lab Sample ID: LCSD 600-293597/2-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.539		mg/Kg		111	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*70 - 130*

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

Lab Sample ID: MB 600-293878/1-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		05/05/20 12:09	05/06/20 16:26	1
Oil Range Organics (C28-C35)	4.97	U	4.97	4.97	mg/Kg		05/05/20 12:09	05/06/20 16:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*60 - 140*	*05/05/20 12:09*	*05/06/20 16:26*	*1*

Lab Sample ID: LCS 600-293878/2-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.5	80.80		mg/Kg		122	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*60 - 140*

Lab Sample ID: LCSD 600-293878/23-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.4	88.25		mg/Kg		133	66 - 134	9	30

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: LCSD 600-293878/23-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293878

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	88		60 - 140

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

Lab Sample ID: MB 600-294110/1-A
Matrix: Solid
Analysis Batch: 294210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1221	0.00858	U	0.0166	0.00858	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1232	0.00666	U	0.0166	0.00666	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1242	0.00123	U	0.0166	0.00123	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		05/08/20 08:11	05/11/20 10:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		10 - 150	05/08/20 08:11	05/11/20 10:34	1
DCB Decachlorobiphenyl	104		10 - 150	05/08/20 08:11	05/11/20 10:34	1

Lab Sample ID: LCS 600-294110/2-A
Matrix: Solid
Analysis Batch: 294210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1302		mg/Kg		79	42 - 130
PCB-1260	0.166	0.1408		mg/Kg		85	59 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	53		10 - 150
DCB Decachlorobiphenyl	113		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-293968/1-A
Matrix: Solid
Analysis Batch: 293998

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	40.0	5.34	mg/Kg			05/06/20 18:23	10
Fluoride	6.01	U	20.0	6.01	mg/Kg			05/06/20 18:23	10
Sulfate	9.57	U	50.0	9.57	mg/Kg			05/06/20 18:23	10

QC Sample Results

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

Job ID: 600-204355-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-293968/2-A
Matrix: Solid
Analysis Batch: 293998

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2000	1915		mg/Kg		96	90 - 110
Fluoride	750	781.3		mg/Kg		104	90 - 110
Sulfate	2000	2113		mg/Kg		106	90 - 110

Lab Sample ID: MB 600-293968/1-A
Matrix: Solid
Analysis Batch: 293999

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.51	U	20.0	2.51	mg/Kg			05/06/20 18:23	10
Nitrite as N	2.97	U	20.0	2.97	mg/Kg			05/06/20 18:23	10

Lab Sample ID: LCS 600-293968/2-A
Matrix: Solid
Analysis Batch: 293999

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1000	970.1		mg/Kg		97	90 - 110
Nitrite as N	1000	1010		mg/Kg		101	90 - 110

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469288/1-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0679	U	0.181	0.0679	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Arsenic	0.362	U	0.906	0.362	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Barium	0.453	U	1.81	0.453	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Beryllium	0.0362	U	0.0906	0.0362	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Cadmium	0.0217	U	0.0453	0.0217	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Chromium	0.408	U	0.906	0.408	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Iron	6.088	J	10.9	5.43	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Manganese	0.181	U	0.453	0.181	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Lead	0.113	U	0.272	0.113	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Antimony	0.181	U	0.453	0.181	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Selenium	0.290	U	0.453	0.290	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Thallium	0.181	U	0.453	0.181	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Zinc	1.81	U	4.53	1.81	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Sodium	6.79	U	18.1	6.79	mg/Kg		05/01/20 09:43	05/05/20 16:30	2
Uranium	0.0362	U	0.0906	0.0362	mg/Kg		05/01/20 09:43	05/05/20 16:30	2

Lab Sample ID: LCSSRM 160-469288/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469288

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	34.3	32.05		mg/Kg		93.4	68.8 - 131.5

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: LCSSRM 160-469288/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469288

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	143	133.2		mg/Kg		93.2	69.9 - 130.1
Barium	415	382.7		mg/Kg		92.2	74.9 - 125.1
Beryllium	179	180.6		mg/Kg		100.9	74.9 - 125.1
Cadmium	56.2	53.60		mg/Kg		95.4	75.1 - 125.1
Chromium	101	85.67		mg/Kg		84.8	69.8 - 129.7
Iron	15700	11200		mg/Kg		71.4	38.2 - 161.8
Manganese	382	352.2		mg/Kg		92.2	75.9 - 124.1
Lead	125	119.6		mg/Kg		95.7	71.4 - 128.0
Antimony	147	88.42		mg/Kg		60.1	19.2 - 249.0
Selenium	77.9	76.62		mg/Kg		98.4	63.2 - 137.4
Thallium	113	111.2		mg/Kg		98.4	68.2 - 131.9
Zinc	240	230.0		mg/Kg		95.8	70.0 - 130.0
Sodium	145	124.7		mg/Kg		86.0	37.4 - 162.1
Uranium	104	94.59		mg/Kg		91.0	69.1 - 129.8

Lab Sample ID: 600-204355-1 MS
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Cell20-Square-91-S-2-3-200427
Prep Type: Total/NA
Prep Batch: 469288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	1.38	U	24.7	23.44		mg/Kg	☼	95	75 - 125
Arsenic	7.35	U	124	129.2		mg/Kg	☼	105	75 - 125
Barium	552		124	793.4	4	mg/Kg	☼	195	75 - 125
Beryllium	0.735	U	12.4	12.44		mg/Kg	☼	101	75 - 125
Cadmium	0.441	U	124	117.3		mg/Kg	☼	95	75 - 125
Chromium	8.27	U	124	115.1		mg/Kg	☼	93	75 - 125
Iron	2050	b	1240	3294		mg/Kg	☼	101	75 - 125
Manganese	28.5		124	143.2		mg/Kg	☼	93	75 - 125
Lead	2.30	U	124	120.2		mg/Kg	☼	97	75 - 125
Antimony	3.68	U	61.8	48.54		mg/Kg	☼	79	75 - 125
Selenium	5.88	U	61.8	62.64		mg/Kg	☼	101	75 - 125
Thallium	3.68	U	24.7	23.33		mg/Kg	☼	94	75 - 125
Zinc	36.8	U	124	137.1		mg/Kg	☼	111	75 - 125
Sodium	190	J	1240	1418		mg/Kg	☼	99	75 - 125
Uranium	0.735	U	124	125.8		mg/Kg	☼	102	75 - 125

QC Sample Results

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

Job ID: 600-204355-1

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

Lab Sample ID: 600-204355-1 MSD — **Client Sample ID: Cell20-Square-91-S-2-3-200427**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469693 — **Prep Batch: 469288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	1.38	U	24.9	22.88		mg/Kg	☼	92	75 - 125	2	30
Arsenic	7.35	U	124	134.2		mg/Kg	☼	108	75 - 125	4	30
Barium	552		124	713.5	4	mg/Kg	☼	130	75 - 125	11	30
Beryllium	0.735	U	12.4	12.19		mg/Kg	☼	98	75 - 125	2	30
Cadmium	0.441	U	124	115.0		mg/Kg	☼	92	75 - 125	2	30
Chromium	8.27	U	124	117.6		mg/Kg	☼	94	75 - 125	2	30
Iron	2050	b	1240	3625	N1	mg/Kg	☼	127	75 - 125	10	30
Manganese	28.5		124	153.9		mg/Kg	☼	101	75 - 125	7	30
Lead	2.30	U	124	117.1		mg/Kg	☼	94	75 - 125	3	30
Antimony	3.68	U	62.2	47.04		mg/Kg	☼	76	75 - 125	3	30
Selenium	5.88	U	62.2	64.72		mg/Kg	☼	104	75 - 125	3	30
Thallium	3.68	U	24.9	22.86		mg/Kg	☼	92	75 - 125	2	30
Zinc	36.8	U	124	131.6		mg/Kg	☼	106	75 - 125	4	30
Sodium	190	J	1240	1434		mg/Kg	☼	100	75 - 125	1	30
Uranium	0.735	U	124	122.8		mg/Kg	☼	99	75 - 125	2	30

Method: 7471A - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 600-293954/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294178 — **Prep Batch: 293954**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.802	J	16.2	3.41	ug/Kg		05/06/20 10:29	05/08/20 12:57	1

Lab Sample ID: LCS 600-293954/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294178 — **Prep Batch: 293954**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	242	248.1		ug/Kg		103	70 - 130

Lab Sample ID: 600-204355-1 MS — **Client Sample ID: Cell20-Square-91-S-2-3-200427**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294178 — **Prep Batch: 293954**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	24.0	b	287	313.2		ug/Kg	☼	101	75 - 125

Lab Sample ID: 600-204355-1 DU — **Client Sample ID: Cell20-Square-91-S-2-3-200427**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294178 — **Prep Batch: 293954**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	24.0	b	17.87	J F	ug/Kg	☼	29	20

QC Sample Results

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

Job ID: 600-204355-1

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-293928/1-A
Matrix: Solid
Analysis Batch: 293966

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	10.0	U	10.0	10.0	mg/L			05/06/20 12:50	1

Lab Sample ID: 600-204355-1 DU
Matrix: Solid
Analysis Batch: 293966

Client Sample ID: Cell20-Square-91-S-2-3-200427
Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	117		121.0		mg/L		3	10

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-293610/1-A
Matrix: Solid
Analysis Batch: 293689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U ^	0.0100	0.00150	mg/Kg		04/30/20 11:50	05/01/20 10:30	1

Lab Sample ID: LCS 600-293610/2-A
Matrix: Solid
Analysis Batch: 293689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1043	^	mg/Kg		104	90 - 110

Lab Sample ID: 600-204355-1 MS
Matrix: Solid
Analysis Batch: 293689

Client Sample ID: Cell20-Square-91-S-2-3-200427
Prep Type: Total/NA
Prep Batch: 293610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0220	U ^	1.44	0.3022	N1 ^	mg/Kg	☼	21	90 - 110

Lab Sample ID: 600-204355-1 MSD
Matrix: Solid
Analysis Batch: 293689

Client Sample ID: Cell20-Square-91-S-2-3-200427
Prep Type: Total/NA
Prep Batch: 293610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0220	U ^	1.48	0.4298	^ N1 N2	mg/Kg	☼	29	90 - 110	35	20

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-293611/1-A
Matrix: Solid
Analysis Batch: 293647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		04/30/20 11:57	05/01/20 07:06	1

QC Sample Results

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

Job ID: 600-204355-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation) (Continued)

Lab Sample ID: LCS 600-293611/2-A
Matrix: Solid
Analysis Batch: 293647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09573		mg/Kg		96	90 - 110

QC Association Summary

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

Job ID: 600-204355-1

GC/MS VOA

Prep Batch: 293422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	5030B	

Analysis Batch: 293518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	8260B	293422
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	8260B	293422
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	8260B	293422
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	8260B	293422
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	8260B	293422
MB 600-293518/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-293518/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-293518/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 293845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3546	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	3546	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	3546	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	3546	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	3546	
MB 600-293845/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 293891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	8270C LL	293845
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	8270C LL	293845
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	8270C LL	293845
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	8270C LL	293845
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	8270C LL	293845
MB 600-293845/1-A	Method Blank	Total/NA	Solid	8270C LL	293845
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	293845

GC VOA

Prep Batch: 293597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	5030B	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	5030B	
MB 600-293597/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

QC Association Summary

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

Job ID: 600-204355-1

GC VOA

Analysis Batch: 293600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	8015B	293597
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	8015B	293597
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	8015B	293597
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	8015B	293597
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	8015B	293597
MB 600-293597/3-A	Method Blank	Total/NA	Solid	8015B	293597
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	8015B	293597
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293597

GC Semi VOA

Prep Batch: 293878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3546	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	3546	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	3546	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	3546	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	3546	
MB 600-293878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 293930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	8015B	293878
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	8015B	293878
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	8015B	293878
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	8015B	293878
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	8015B	293878
MB 600-293878/1-A	Method Blank	Total/NA	Solid	8015B	293878
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	8015B	293878
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293878

Prep Batch: 294110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3546	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	3546	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	3546	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	3546	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	3546	
MB 600-294110/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294110/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 294210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	8082	294110
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	8082	294110
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	8082	294110
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	8082	294110
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	8082	294110
MB 600-294110/1-A	Method Blank	Total/NA	Solid	8082	294110

QC Association Summary

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

Job ID: 600-204355-1

GC Semi VOA (Continued)

Analysis Batch: 294210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-294110/2-A	Lab Control Sample	Total/NA	Solid	8082	294110

HPLC/IC

Leach Batch: 293968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Soluble	Solid	DI Leach	
600-204355-2	Cell20-Square-99-S-2-3-200427	Soluble	Solid	DI Leach	
600-204355-3	Cell20-Square-105-S-2-3-200427	Soluble	Solid	DI Leach	
600-204355-4	Cell20-Square-187-S-2-3-200427	Soluble	Solid	DI Leach	
600-204355-5	Cell19-Square-171-S-2-3-200427	Soluble	Solid	DI Leach	
MB 600-293968/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 293998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-2	Cell20-Square-99-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-3	Cell20-Square-105-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-4	Cell20-Square-187-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-5	Cell19-Square-171-S-2-3-200427	Soluble	Solid	300.0	293968
MB 600-293968/1-A	Method Blank	Soluble	Solid	300.0	293968
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	300.0	293968

Analysis Batch: 293999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-2	Cell20-Square-99-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-3	Cell20-Square-105-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-4	Cell20-Square-187-S-2-3-200427	Soluble	Solid	300.0	293968
600-204355-5	Cell19-Square-171-S-2-3-200427	Soluble	Solid	300.0	293968
MB 600-293968/1-A	Method Blank	Soluble	Solid	300.0	293968
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	300.0	293968

Metals

Prep Batch: 293954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	7471A	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	7471A	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	7471A	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	7471A	
MB 600-293954/7-A	Method Blank	Total/NA	Solid	7471A	
LCS 600-293954/8-A	Lab Control Sample	Total/NA	Solid	7471A	
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	

Analysis Batch: 294178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	293954
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	7471A	293954

QC Association Summary

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

Job ID: 600-204355-1

Metals (Continued)

Analysis Batch: 294178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	7471A	293954
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	7471A	293954
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	7471A	293954
MB 600-293954/7-A	Method Blank	Total/NA	Solid	7471A	293954
LCS 600-293954/8-A	Lab Control Sample	Total/NA	Solid	7471A	293954
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	293954
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	7471A	293954

Prep Batch: 469288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3050B	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	3050B	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	3050B	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	3050B	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	3050B	
MB 160-469288/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-469288/2-A	Lab Control Sample	Total/NA	Solid	3050B	
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3050B	
600-204355-1 MSD	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	3050B	

Analysis Batch: 469693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	6020	469288
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	6020	469288
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	6020	469288
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	6020	469288
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	6020	469288
MB 160-469288/1-A	Method Blank	Total/NA	Solid	6020	469288
LCSSRM 160-469288/2-A	Lab Control Sample	Total/NA	Solid	6020	469288
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	6020	469288
600-204355-1 MSD	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	6020	469288

General Chemistry

Analysis Batch: 293592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	2540B	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	2540B	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	2540B	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	2540B	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	2540B	

Analysis Batch: 293604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9045D	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	9045D	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	9045D	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	9045D	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	9045D	
LCS 600-293604/1	Lab Control Sample	Total/NA	Solid	9045D	

QC Association Summary

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

Job ID: 600-204355-1

General Chemistry

Prep Batch: 293610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	9012B	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	9012B	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	9012B	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	9012B	
MB 600-293610/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-293610/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	
600-204355-1 MSD	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	

Prep Batch: 293611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	Distill/Phenol	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	Distill/Phenol	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	Distill/Phenol	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	Distill/Phenol	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	Distill/Phenol	
MB 600-293611/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-293611/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 293647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9066	293611
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	9066	293611
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	9066	293611
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	9066	293611
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	9066	293611
MB 600-293611/1-A	Method Blank	Total/NA	Solid	9066	293611
LCS 600-293611/2-A	Lab Control Sample	Total/NA	Solid	9066	293611

Analysis Batch: 293689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	293610
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	9012B	293610
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	9012B	293610
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	9012B	293610
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	9012B	293610
MB 600-293610/1-A	Method Blank	Total/NA	Solid	9012B	293610
LCS 600-293610/2-A	Lab Control Sample	Total/NA	Solid	9012B	293610
600-204355-1 MS	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	293610
600-204355-1 MSD	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	9012B	293610

Leach Batch: 293928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	7 Day Leach	Solid	335.521	
600-204355-2	Cell20-Square-99-S-2-3-200427	7 Day Leach	Solid	335.521	
600-204355-3	Cell20-Square-105-S-2-3-200427	7 Day Leach	Solid	335.521	
600-204355-4	Cell20-Square-187-S-2-3-200427	7 Day Leach	Solid	335.521	
600-204355-5	Cell19-Square-171-S-2-3-200427	7 Day Leach	Solid	335.521	
LB 600-293928/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	7 Day Leach	Solid	335.521	

QC Association Summary

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

Job ID: 600-204355-1

General Chemistry

Analysis Batch: 293966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928
600-204355-2	Cell20-Square-99-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928
600-204355-3	Cell20-Square-105-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928
600-204355-4	Cell20-Square-187-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928
600-204355-5	Cell19-Square-171-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928
LB 600-293928/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	293928
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	7 Day Leach	Solid	2540 C-1997	293928

Lab Chronicle

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-91-S-2-3-200427
Lab Sample ID: 600-204355-1
Date Collected: 04/27/20 12:17
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	293928	04/29/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	293966	05/06/20 12:50	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293592	04/30/20 08:58	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.11 g	20 mL	293604	04/30/20 10:52	AAZ	TAL HOU

Client Sample ID: Cell20-Square-91-S-2-3-200427
Lab Sample ID: 600-204355-1
Date Collected: 04/27/20 12:17
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.11 g	5 mL	293422	04/28/20 13:12	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293518	04/29/20 16:06	KLV	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 09:22	LPL	TAL HOU
Total/NA	Prep	5030B			9.58 g	10 mL	293597	04/30/20 09:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293600	04/30/20 12:43	WS1	TAL HOU
Total/NA	Prep	3546			15.05 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 19:16	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 15:13	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 01:59	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 01:59	W1N	TAL HOU
Total/NA	Prep	3050B			0.3436 g	50 mL	469288	05/01/20 09:43	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 16:43	LKP	TAL SL
Total/NA	Prep	7471A			0.66 g	50 mL	293954	05/06/20 10:29	SOT	TAL HOU
Total/NA	Analysis	7471A		1			294178	05/08/20 13:29	TWR	TAL HOU
Total/NA	Prep	9012B			0.518 g	6.0 mL	293610	04/30/20 11:50	AML	TAL HOU
Total/NA	Analysis	9012B		1			293689	05/01/20 10:32	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	293611	04/30/20 11:57	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	293647	05/01/20 07:13	AML	TAL HOU

Client Sample ID: Cell20-Square-99-S-2-3-200427
Lab Sample ID: 600-204355-2
Date Collected: 04/27/20 12:48
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	293928	04/29/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	293966	05/06/20 12:50	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293592	04/30/20 08:58	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.13 g	20 mL	293604	04/30/20 10:52	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-99-S-2-3-200427 Lab Sample ID: 600-204355-2

Date Collected: 04/27/20 12:48 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 86.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.83 g	5 mL	293422	04/28/20 13:12	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293518	04/29/20 16:28	KLV	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 09:45	LPL	TAL HOU
Total/NA	Prep	5030B			9.33 g	10 mL	293597	04/30/20 09:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293600	04/30/20 13:07	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 19:50	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 15:39	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 03:09	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 03:09	W1N	TAL HOU
Total/NA	Prep	3050B			0.5562 g	50 mL	469288	05/01/20 09:43	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 17:17	LKP	TAL SL
Total/NA	Prep	7471A			0.62 g	50 mL	293954	05/06/20 10:29	SOT	TAL HOU
Total/NA	Analysis	7471A		1			294178	05/08/20 13:35	TWR	TAL HOU
Total/NA	Prep	9012B			0.515 g	6.0 mL	293610	04/30/20 11:50	AML	TAL HOU
Total/NA	Analysis	9012B		1			293689	05/01/20 10:34	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	293611	04/30/20 11:57	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	293647	05/01/20 07:15	AML	TAL HOU

Client Sample ID: Cell20-Square-105-S-2-3-200427 Lab Sample ID: 600-204355-3

Date Collected: 04/27/20 13:25 **Matrix: Solid**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	293928	04/29/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	293966	05/06/20 12:50	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293592	04/30/20 08:58	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.13 g	20 mL	293604	04/30/20 10:52	AAZ	TAL HOU

Client Sample ID: Cell20-Square-105-S-2-3-200427 Lab Sample ID: 600-204355-3

Date Collected: 04/27/20 13:25 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	293422	04/28/20 13:12	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293518	04/29/20 16:51	KLV	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 10:09	LPL	TAL HOU
Total/NA	Prep	5030B			10.09 g	10 mL	293597	04/30/20 09:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293600	04/30/20 13:31	WS1	TAL HOU

Lab Chronicle

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

Job ID: 600-204355-1

Client Sample ID: Cell20-Square-105-S-2-3-200427
Lab Sample ID: 600-204355-3
Date Collected: 04/27/20 13:25
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 20:24	RJV	TAL HOU
Total/NA	Prep	3546			15.07 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 16:04	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 03:32	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 03:32	W1N	TAL HOU
Total/NA	Prep	3050B			0.5280 g	50 mL	469288	05/01/20 09:43	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 17:23	LKP	TAL SL
Total/NA	Prep	7471A			0.61 g	50 mL	293954	05/06/20 10:29	SOT	TAL HOU
Total/NA	Analysis	7471A		1			294178	05/08/20 13:37	TWR	TAL HOU
Total/NA	Prep	9012B			0.518 g	6.0 mL	293610	04/30/20 11:50	AML	TAL HOU
Total/NA	Analysis	9012B		1			293689	05/01/20 10:35	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	293611	04/30/20 11:57	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	293647	05/01/20 07:16	AML	TAL HOU

Client Sample ID: Cell20-Square-187-S-2-3-200427
Lab Sample ID: 600-204355-4
Date Collected: 04/27/20 13:49
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	293928	04/29/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	293966	05/06/20 12:50	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293592	04/30/20 08:58	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.03 g	20 mL	293604	04/30/20 10:52	AAZ	TAL HOU

Client Sample ID: Cell20-Square-187-S-2-3-200427
Lab Sample ID: 600-204355-4
Date Collected: 04/27/20 13:49
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.80 g	5 mL	293422	04/28/20 13:12	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293518	04/29/20 17:13	KLV	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 10:32	LPL	TAL HOU
Total/NA	Prep	5030B			9.29 g	10 mL	293597	04/30/20 09:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293600	04/30/20 13:54	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 20:57	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 16:29	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 03:55	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-187-S-2-3-200427 Lab Sample ID: 600-204355-4

Date Collected: 04/27/20 13:49 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:51	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 03:55	W1N	TAL HOU
Total/NA	Prep	3050B			0.5138 g	50 mL	469288	05/01/20 09:43	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 17:30	LKP	TAL SL
Total/NA	Prep	7471A			0.66 g	50 mL	293954	05/06/20 10:29	SOT	TAL HOU
Total/NA	Analysis	7471A		1			294178	05/08/20 13:39	TWR	TAL HOU
Total/NA	Prep	9012B			0.540 g	6.0 mL	293610	04/30/20 11:50	AML	TAL HOU
Total/NA	Analysis	9012B		1			293689	05/01/20 10:36	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	293611	04/30/20 11:57	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	293647	05/01/20 07:17	AML	TAL HOU

Client Sample ID: Cell19-Square-171-S-2-3-200427 Lab Sample ID: 600-204355-5

Date Collected: 04/27/20 14:20 **Matrix: Solid**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	293928	04/29/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	293966	05/06/20 12:50	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293592	04/30/20 08:58	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.20 g	20 mL	293604	04/30/20 10:52	AAZ	TAL HOU

Client Sample ID: Cell19-Square-171-S-2-3-200427 Lab Sample ID: 600-204355-5

Date Collected: 04/27/20 14:20 **Matrix: Solid**
Date Received: 04/28/20 10:01 **Percent Solids: 90.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.10 g	5 mL	293422	04/28/20 13:12	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293518	04/29/20 17:35	KLV	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 10:55	LPL	TAL HOU
Total/NA	Prep	5030B			10.12 g	10 mL	293597	04/30/20 09:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293600	04/30/20 14:18	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 21:31	RJV	TAL HOU
Total/NA	Prep	3546			15.10 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 16:55	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:52	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 04:18	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:52	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 04:18	W1N	TAL HOU
Total/NA	Prep	3050B			0.5134 g	50 mL	469288	05/01/20 09:43	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 17:57	LKP	TAL SL
Total/NA	Prep	7471A			0.61 g	50 mL	293954	05/06/20 10:29	SOT	TAL HOU
Total/NA	Analysis	7471A		1			294178	05/08/20 13:45	TWR	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-171-S-2-3-200427
Lab Sample ID: 600-204355-5
Date Collected: 04/27/20 14:20
Matrix: Solid
Date Received: 04/28/20 10:01
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			0.539 g	6.0 mL	293610	04/30/20 11:50	AML	TAL HOU
Total/NA	Analysis	9012B		1			293689	05/01/20 11:19	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	293611	04/30/20 11:57	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	293647	05/01/20 07:20	AML	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	Oil Range Organics (C28-C35)
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204355-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432-288-0870	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Rush TAT			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
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)	TPH-GRO-8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride-300	6020/7471-Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6020-(MOD) Copy Acct/yrs	2540 C-Color-Lab/Method	300_0/R6FM-7RD-300-ORGFM	6A_01_2_RA_(MOD)Rad	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	N	N	N	N						
Cell 20-Square-91-S-23-200427	04/27/20	1217	G	Solid			X	X	X	X	X	X	X	X	X	3	
Cell 20-Square-99-S-2-3-200427	04/27/20	1248	G	Solid			X	X	X	X	X	X	X	X	X	3	
Cell 20-Square-105-S-2-3-200427	04/27/20	1325	G	Solid			X	X	X	X	X	X	X	X	X	3	
Cell 20-Square-187-S-2-3-200427	04/27/20	1349	G	Solid			X	X	X	X	X	X	X	X	X	3	
Cell 19-Square-171-S-2-3-200427	04/27/20	1420	G	Solid			X	X	X	X	X	X	X	X	X	3	
				Solid													
				Solid													
				Solid													
				Solid													
				Solid													
				Solid													
				Solid													

600-204355 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 S. Longwell	Date/Time: 04/28/20 1631	Company: ARCADIS	Received by:	Date/Time: 4/28/20 1001	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:

'20 APR 28 10:01

Loc: 600
204355

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: FF CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 2

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
5060	Y / N	Y / N	1.9	678	-0.1	1.8
5071	Y / N	Y / N	2.4	1	1	2.3
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				4/28/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

4/28/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44585.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204355-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/1/2020			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel), 314-298-8757(Fax)	WO #:			
Email:	Project #: 60012253			
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 - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sewage, Solid, Oil/waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
Preservation Code:										
Cell20-Square-91-S-2-3-200427 (600-204355-1)	4/27/20	12:17 Central		Solid			X	X	1	
Cell20-Square-99-S-2-3-200427 (600-204355-2)	4/27/20	12:48 Central		Solid			X	X	1	
Cell20-Square-105-S-2-3-200427 (600-204355-3)	4/27/20	13:25 Central		Solid			X	X	1	
Cell20-Square-187-S-2-3-200427 (600-204355-4)	4/27/20	13:49 Central		Solid			X	X	1	
Cell19-Square-171-S-2-3-200427 (600-204355-5)	4/27/20	14:20 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
	4-29-2020 1700	EDM	FED EX		
FED EX					
				4/30/2020 0946	ETA SIL
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: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44585.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204355-2
Address: 13715 Rider Trail North	Due Date Requested: 5/22/2020			
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 #: 60012253			
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 (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square-91-S-2-3-200427 (600-204355-1)	4/27/20	12:17 Central		Solid			X	1	
Cell20-Square-99-S-2-3-200427 (600-204355-2)	4/27/20	12:48 Central		Solid			X	1	
Cell20-Square-105-S-2-3-200427 (600-204355-3)	4/27/20	13:25 Central		Solid			X	1	
Cell20-Square-187-S-2-3-200427 (600-204355-4)	4/27/20	13:49 Central		Solid			X	1	
Cell19-Square-171-S-2-3-200427 (600-204355-5)	4/27/20	14:20 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	4-29-20 1700	CVT	FED EX		
FED EX			[signature]	4/30/2020 0846	ETA STL

Custody Seals Intact: ☐ Yes ☐ 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: 600-204355-1

Login Number: 204355 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	1.8,2.3
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204355-1

Login Number: 204355
List Number: 2
Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/30/20 01:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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.	N/A	

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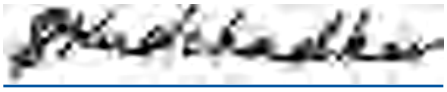
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204355-2
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:
5/26/2020 1:39:51 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204355-2

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Case Narrative

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

Job ID: 600-204355-2

Job ID: 600-204355-2

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204355-2

Comments
No additional comments.

Receipt
The samples were received on 4/28/2020 10:01 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.8º C and 2.3º C.

RAD
Method Fill_Geo-21: Gamma Prep Batch 160-469478:

Insufficient samples were provided for the following samples to fill a geometry (e.g. tuna can) calibrated for Ra-226 analysis by gamma spectroscopy: Cell20-Square-91-S-2-3-200427 (600-204355-1), Cell20-Square-99-S-2-3-200427 (600-204355-2), Cell20-Square-105-S-2-3-200427 (600-204355-3), Cell20-Square-187-S-2-3-200427 (600-204355-4), Cell19-Square-171-S-2-3-200427 (600-204355-5) and (600-204355-C-1-D DU). The use of a different geometry could potentially bias the results low due to the loss of radon into the headspace of the container.

Method GA-01-R: Gamma Prep Batch 160-469478
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

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

Cell20-Square-91-S-2-3-200427 (600-204355-1), Cell20-Square-99-S-2-3-200427 (600-204355-2), Cell20-Square-105-S-2-3-200427 (600-204355-3), Cell20-Square-187-S-2-3-200427 (600-204355-4), Cell19-Square-171-S-2-3-200427 (600-204355-5), (LCS 160-469478/2-A), (MB 160-469478/1-A) and (600-204355-C-1-F DU)

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

Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

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

Job ID: 600-204355-2

Job ID: 600-204355-2 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

General Chemistry

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

Method Summary

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

Job ID: 600-204355-2

Method	Method Description	Protocol	Laboratory
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

Protocol References:

DOE = U.S. Department of Energy
None = None

Laboratory References:

TAL SL = Eurofins TestAmerica, 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: 600-204355-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204355-1	Cell20-Square-91-S-2-3-200427	Solid	04/27/20 12:17	04/28/20 10:01	
600-204355-2	Cell20-Square-99-S-2-3-200427	Solid	04/27/20 12:48	04/28/20 10:01	
600-204355-3	Cell20-Square-105-S-2-3-200427	Solid	04/27/20 13:25	04/28/20 10:01	
600-204355-4	Cell20-Square-187-S-2-3-200427	Solid	04/27/20 13:49	04/28/20 10:01	
600-204355-5	Cell19-Square-171-S-2-3-200427	Solid	04/27/20 14:20	04/28/20 10:01	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204355-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-91-S-2-3-200427 Lab Sample ID: 600-204355-1

Date Collected: 04/27/20 12:17 **Matrix: Solid**
Date Received: 04/28/20 10:01

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	**0.884**		0.208	0.227	1.00	0.174	pCi/g	05/04/20 07:24	05/25/20 13:12	1
Radium-228	0.0330	U	0.0850	0.0850		0.273	pCi/g	05/04/20 07:24	05/25/20 13:12	1
Combined Radium 226 + 228	**0.917**		0.225	0.242		0.273	pCi/g	05/04/20 07:24	05/25/20 13:12	1

Client Sample ID: Cell20-Square-99-S-2-3-200427 Lab Sample ID: 600-204355-2

Date Collected: 04/27/20 12:48 **Matrix: Solid**
Date Received: 04/28/20 10:01

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	**1.39**		0.311	0.339	1.00	0.285	pCi/g	05/04/20 07:24	05/25/20 12:49	1
Radium-228	-0.00440	U	0.0132	0.0132		0.573	pCi/g	05/04/20 07:24	05/25/20 12:49	1
Combined Radium 226 + 228	**1.38**		0.311	0.339		0.573	pCi/g	05/04/20 07:24	05/25/20 12:49	1

Client Sample ID: Cell20-Square-105-S-2-3-200427 Lab Sample ID: 600-204355-3

Date Collected: 04/27/20 13:25 **Matrix: Solid**
Date Received: 04/28/20 10:01

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	**1.60**		0.277	0.322	1.00	0.213	pCi/g	05/04/20 07:24	05/25/20 13:13	1
Radium-228	**0.518**		0.219	0.225		0.196	pCi/g	05/04/20 07:24	05/25/20 13:13	1
Combined Radium 226 + 228	**2.12**		0.353	0.393		0.213	pCi/g	05/04/20 07:24	05/25/20 13:13	1

Client Sample ID: Cell20-Square-187-S-2-3-200427 Lab Sample ID: 600-204355-4

Date Collected: 04/27/20 13:49 **Matrix: Solid**
Date Received: 04/28/20 10:01

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	**1.41**		0.215	0.258	1.00	0.165	pCi/g	05/04/20 07:24	05/25/20 14:36	1
Radium-228	0.186	U	0.161	0.162		0.203	pCi/g	05/04/20 07:24	05/25/20 14:36	1
Combined Radium 226 + 228	**1.59**		0.269	0.305		0.203	pCi/g	05/04/20 07:24	05/25/20 14:36	1

Client Sample Results

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

Job ID: 600-204355-2

Client Sample ID: Cell19-Square-171-S-2-3-200427
Date Collected: 04/27/20 14:20
Date Received: 04/28/20 10:01

Lab Sample ID: 600-204355-5
Matrix: Solid

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**		0.198	0.241	1.00	0.129	pCi/g	05/04/20 07:24	05/25/20 22:06	1
Radium-228	0.126	U	0.218	0.219		0.224	pCi/g	05/04/20 07:24	05/25/20 22:06	1
Combined Radium 226 + 228	**1.48**		0.294	0.326		0.224	pCi/g	05/04/20 07:24	05/25/20 22:06	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204355-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Sample Results

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

Job ID: 600-204355-2

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-469478/1-A
Matrix: Solid
Analysis Batch: 471217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469478

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.008824	U	0.0125	0.0126	1.00	0.291	pCi/g	05/04/20 07:24	05/25/20 12:04	1
Radium-228	0.01351	U	0.149	0.149		0.216	pCi/g	05/04/20 07:24	05/25/20 12:04	1
Combined Radium 226 + 228	0.004689	U	0.150	0.150		0.291	pCi/g	05/04/20 07:24	05/25/20 12:04	1

Lab Sample ID: LCS 160-469478/2-A
Matrix: Solid
Analysis Batch: 471216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469478

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	100	93.04		10.9		0.831	pCi/g	93	87 - 116
Cesium-137	31.0	30.81		3.22		0.267	pCi/g	99	87 - 120
Cobalt-60	18.4	17.27		1.77		0.176	pCi/g	94	87 - 115

Lab Sample ID: 600-204355-1 DU
Matrix: Solid
Analysis Batch: 471216

Client Sample ID: Cell20-Square-91-S-2-3-200427
Prep Type: Total/NA
Prep Batch: 469478

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.884		1.081		0.216	1.00	0.133	pCi/g	0.44	1
Radium-228	0.0330	U	0.1295	U	0.201		0.312	pCi/g	0.34	1
Combined Radium 226 + 228	0.917		1.210		0.295		0.312	pCi/g	0.54	1

QC Association Summary

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

Job ID: 600-204355-2

Rad

Leach Batch: 469337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	Dry and Grind	
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	Dry and Grind	
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	Dry and Grind	
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	Dry and Grind	
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	Dry and Grind	
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	Dry and Grind	

Prep Batch: 469478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204355-1	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337
600-204355-2	Cell20-Square-99-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337
600-204355-3	Cell20-Square-105-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337
600-204355-4	Cell20-Square-187-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337
600-204355-5	Cell19-Square-171-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337
MB 160-469478/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-469478/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-204355-1 DU	Cell20-Square-91-S-2-3-200427	Total/NA	Solid	Fill_Geo-21	469337

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204355-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell20-Square-91-S-2-3-200427
Lab Sample ID: 600-204355-1
Date Collected: 04/27/20 12:17
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469337	05/01/20 19:28	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			145 g	1.0 g	469478	05/04/20 07:24	SEC	TAL SL
Total/NA	Analysis	GA-01-R		1			471217	05/25/20 13:12	KLS	TAL SL

Client Sample ID: Cell20-Square-99-S-2-3-200427
Lab Sample ID: 600-204355-2
Date Collected: 04/27/20 12:48
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469337	05/01/20 19:28	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			117.5 g	1.0 g	469478	05/04/20 07:24	SEC	TAL SL
Total/NA	Analysis	GA-01-R		1			471188	05/25/20 12:49	AJD	TAL SL

Client Sample ID: Cell20-Square-105-S-2-3-200427
Lab Sample ID: 600-204355-3
Date Collected: 04/27/20 13:25
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469337	05/01/20 19:28	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			128.5 g	1.0 g	469478	05/04/20 07:24	SEC	TAL SL
Total/NA	Analysis	GA-01-R		1			471216	05/25/20 13:13	KLS	TAL SL

Client Sample ID: Cell20-Square-187-S-2-3-200427
Lab Sample ID: 600-204355-4
Date Collected: 04/27/20 13:49
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469337	05/01/20 19:28	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			131.2 g	1.0 g	469478	05/04/20 07:24	SEC	TAL SL
Total/NA	Analysis	GA-01-R		1			471217	05/25/20 14:36	KLS	TAL SL

Client Sample ID: Cell19-Square-171-S-2-3-200427
Lab Sample ID: 600-204355-5
Date Collected: 04/27/20 14:20
Matrix: Solid
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469337	05/01/20 19:28	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			141.1 g	1.0 g	469478	05/04/20 07:24	SEC	TAL SL
Total/NA	Analysis	GA-01-R		1			471217	05/25/20 22:06	KLS	TAL SL

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-204355-2
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44585.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204355-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/1/2020			
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 #: 60012253			
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 (Wastewater, Sewage, Solid, Oil/waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
Preservation Code:										
Cell20-Square-91-S-2-3-200427 (600-204355-1)	4/27/20	12:17 Central		Solid			X	X	1	
Cell20-Square-99-S-2-3-200427 (600-204355-2)	4/27/20	12:48 Central		Solid			X	X	1	
Cell20-Square-105-S-2-3-200427 (600-204355-3)	4/27/20	13:25 Central		Solid			X	X	1	
Cell20-Square-187-S-2-3-200427 (600-204355-4)	4/27/20	13:49 Central		Solid			X	X	1	
Cell19-Square-171-S-2-3-200427 (600-204355-5)	4/27/20	14:20 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
	4-29-2020 1700	EOM	FED EX		
FED EX					
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				4/30/2020 0946	ETA SIL
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: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44585.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204355-2
Address: 13715 Rider Trail North	Due Date Requested: 5/22/2020			
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 #: 60012253			
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 (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell20-Square-91-S-2-3-200427 (600-204355-1)	4/27/20	12:17 Central		Solid			X	1	
Cell20-Square-99-S-2-3-200427 (600-204355-2)	4/27/20	12:48 Central		Solid			X	1	
Cell20-Square-105-S-2-3-200427 (600-204355-3)	4/27/20	13:25 Central		Solid			X	1	
Cell20-Square-187-S-2-3-200427 (600-204355-4)	4/27/20	13:49 Central		Solid			X	1	
Cell19-Square-171-S-2-3-200427 (600-204355-5)	4/27/20	14:20 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	4-29-20 1700	EMT	FED EX		
FED EX			[signature]	4/30/2020 0846	ETA STL

Custody Seals Intact: ☐ Yes ☐ 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: 600-204355-2

Login Number: 204355 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	1.8,2.3
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204355-2

Login Number: 204355 **List Source: Eurofins TestAmerica, St. Louis**
List Number: 2 **List Creation: 04/30/20 01:46 PM**
Creator: Mazariegos, Leonel A

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

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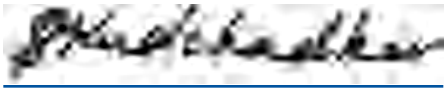
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204524-1
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:
6/17/2020 10:56:56 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204524-1

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Case Narrative

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

Job ID: 600-204524-1

Job ID: 600-204524-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204524-1

The report was revised on 06/17/20 to to correct the sample ID for sample 600-204524-10 per the COC.

Receipt
The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 5 coolers at receipt time were 1.1°C, 1.8°C, 2.8°C, 3.0°C and 5.6°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 8270C_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 600-294022 and analytical batch 600-294132 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

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

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

Diesel Range Organics
Method 8015B_DRO: The following samples needs to be re-digested/re-extracted due to low surrogate recovery. :
Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-85-S-2-3-200429 (600-204524-8) and
Cell26-Square-167-S-2-3-200429 (600-204524-9).

Method 8015B_DRO: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure:
Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-85-S-2-3-200429 (600-204524-8) and
Cell26-Square-167-S-2-3-200429 (600-204524-9). The reporting limits (RLs) have been adjusted proportionately.

Method 8015B_DRO: The following samples were analyzed outside of analytical holding time due to having been re-extracted out of hold.:
Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-85-S-2-3-200429 (600-204524-8) and
Cell26-Square-167-S-2-3-200429 (600-204524-9).

Method 8015B_DRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-294384 and analytical batch 600-294371 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.

PCBs
Method 8082: Surrogate recovery for the following sample was outside control limits: Cell25-Square-162-S-2-3-200429 (600-204524-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-294035 and analytical batch 600-294024 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-204524-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 300_ORGFMS: The matrix spike duplicate (MSD) recoveries for preparation batch 600-294035 and analytical batch 600-294025 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.

Metals

Method 6020: preparation batch 160-469562 and analytical batch 160-469693 The following samples were diluted due to the abundance of non-target analytes: Cell17-Square-37-S-2-3-200429 (600-204524-1), Cell17-Square-91-S-2-3-200429 (600-204524-2), Cell17-Square-129-S-2-3-200429 (600-204524-3), Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-162-S-2-3-200429 (600-204524-6), Cell25-Square-85-S-2-3-200429 (600-204524-8), Cell26-Square-167-S-2-3-200429 (600-204524-9), Cell26-Square-110-S-2-3-200429 (600-204524-11), Cell26-Square-169-S-2-3-200429 (600-204524-12), (600-204524-C-1-B MS), (600-204524-C-1-C MSD), (600-204524-C-1-A PDS) and (600-204524-C-1-A SD). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-469562 and analytical batch 160-469693 were outside control limits for Barium, Iron, and Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.(600-204524-C-1-B MS) and (600-204524-C-1-C MSD)

Method 6020: The laboratory control sample (LCS) for preparation batch 160-469562 and analytical batch 160-469693 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.(LCSSRM 160-469562/2-A)

Method 6020: Cell17-Square-37-S-2-3-200429 (600-204524-1), Cell17-Square-91-S-2-3-200429 (600-204524-2), Cell17-Square-129-S-2-3-200429 (600-204524-3), Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-162-S-2-3-200429 (600-204524-6), Cell25-Square-85-S-2-3-200429 (600-204524-8), Cell26-Square-167-S-2-3-200429 (600-204524-9), Cell26-Square-110-S-2-3-200429 (600-204524-11), Cell26-Square-169-S-2-3-200429 (600-204524-12), (600-204524-C-1-B MS), (600-204524-C-1-C MSD), (600-204524-C-1-A PDS) and (600-204524-C-1-A SD) The following sample(s) was diluted due to the nature of the sample matrix. The samples caused internal standard and instrument QC failure when run at a lesser dilution: Cell17-Square-37-S-2-3-200429 (600-204524-1), Cell17-Square-91-S-2-3-200429 (600-204524-2), Cell17-Square-129-S-2-3-200429 (600-204524-3), Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-162-S-2-3-200429 (600-204524-6), Cell25-Square-85-S-2-3-200429 (600-204524-8), Cell26-Square-167-S-2-3-200429 (600-204524-9), Cell26-Square-110-S-2-3-200429 (600-204524-11), Cell26-Square-169-S-2-3-200429 (600-204524-12), (600-204524-C-1-B MS), (600-204524-C-1-C MSD), (600-204524-C-1-A PDS) and (600-204524-C-1-A SD). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Method Summary

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

Job ID: 600-204524-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
6020	Metals (ICP/MS)	SW846	TAL SL
7471A	Mercury (CVAA)	SW846	TAL SL
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
7471A	Preparation, Mercury	SW846	TAL SL
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU

Protocol References:

ASTM = ASTM International
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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL SL = Eurofins TestAmerica, 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: 600-204524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204524-1	Cell17-Square-37-S-2-3-200429	Solid	04/29/20 08:48	04/30/20 10:37	
600-204524-2	Cell17-Square-91-S-2-3-200429	Solid	04/29/20 09:15	04/30/20 10:37	
600-204524-3	Cell17-Square-129-S-2-3-200429	Solid	04/29/20 09:46	04/30/20 10:37	
600-204524-4	Cell17-Square-190-S-2-3-200429	Solid	04/29/20 10:01	04/30/20 10:37	
600-204524-5	Cell25-Square-187-S-2-3-200429	Solid	04/29/20 10:18	04/30/20 10:37	
600-204524-6	Cell25-Square-162-S-2-3-200429	Solid	04/29/20 10:40	04/30/20 10:37	
600-204524-7	Cell25-Square-179-S-2-3-200429	Solid	04/29/20 11:08	04/30/20 10:37	
600-204524-8	Cell25-Square-85-S-2-3-200429	Solid	04/29/20 11:39	04/30/20 10:37	
600-204524-9	Cell26-Square-167-S-2-3-200429	Solid	04/29/20 11:55	04/30/20 10:37	
600-204524-10	Cell26-Square-79-S-2-3-200429	Solid	04/29/20 12:22	04/30/20 10:37	
600-204524-11	Cell26-Square-110-S-2-3-200429	Solid	04/29/20 12:52	04/30/20 10:37	
600-204524-12	Cell26-Square-169-S-2-3-200429	Solid	04/29/20 13:10	04/30/20 10:37	

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-37-S-2-3-200429

Date Collected: 04/29/20 08:48
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-1

Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00110	U	0.0122	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,1-Dichloroethene	0.00149	U	0.00612	0.00149	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
trans-1,2-Dichloroethene	0.00140	U	0.00612	0.00140	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Methyl tert-butyl ether	0.00224	U	0.00612	0.00224	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Methylene Chloride	**0.00790**	**J b**	0.0122	0.00268	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
cis-1,2-Dichloroethene	0.00102	U	0.00612	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Carbon tetrachloride	0.00138	U	0.00612	0.00138	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Benzene	0.000772	U	0.00612	0.000772	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,2-Dichloroethane	0.00110	U	0.00612	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Trichloroethene	0.00171	U	0.00612	0.00171	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,1,1-Trichloroethane	0.000906	U	0.00612	0.000906	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,1-Dichloroethane	0.00107	U	0.00612	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,2-Dichloropropane	0.000870	U	0.00612	0.000870	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Chloroform	0.000808	U	0.0122	0.000808	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Toluene	0.00169	U	0.00612	0.00169	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,1,2-Trichloroethane	0.000894	U	0.00612	0.000894	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Tetrachloroethene	0.000870	U	0.00612	0.000870	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,2-Dibromoethane	0.00125	U	0.00612	0.00125	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Ethylbenzene	0.00125	U	0.00612	0.00125	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Xylenes, Total	0.00138	U	0.00612	0.00138	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
Styrene	0.000870	U	0.00612	0.000870	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,1,2,2-Tetrachloroethane	0.00107	U	0.00612	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,4-Dichlorobenzene	0.000808	U	0.00612	0.000808	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,2-Dichlorobenzene	0.000980	U	0.00612	0.000980	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1
1,2,4-Trichlorobenzene	0.00241	U	0.00612	0.00241	mg/Kg	☼	04/30/20 17:13	05/01/20 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*	*04/30/20 17:13*	*05/01/20 10:19*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*04/30/20 17:13*	*05/01/20 10:19*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*04/30/20 17:13*	*05/01/20 10:19*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*	*04/30/20 17:13*	*05/01/20 10:19*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00112	U	0.0374	0.00112	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Anthracene	0.00144	U	0.0374	0.00144	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Benzo[a]anthracene	0.00155	U	0.0374	0.00155	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Benzo[b]fluoranthene	0.00193	U	0.0374	0.00193	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Benzo[k]fluoranthene	0.00167	U	0.0374	0.00167	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Benzo[g,h,i]perylene	0.00569	U	0.0374	0.00569	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Benzo[a]pyrene	0.00181	U	0.0374	0.00181	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Chrysene	0.00114	U	0.0374	0.00114	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Dibenz(a,h)anthracene	0.00407	U	0.0374	0.00407	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Fluoranthene	0.00349	U	0.0374	0.00349	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Fluorene	0.00265	U	0.0374	0.00265	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Indeno[1,2,3-cd]pyrene	0.00393	U	0.0374	0.00393	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
2-Methylnaphthalene	0.00307	U	0.0374	0.00307	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Phenanthrene	0.00555	U	0.0374	0.00555	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Pyrene	0.00205	U	0.0374	0.00205	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
1-Methylnaphthalene	0.00176	U	0.0374	0.00176	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square-37-S-2-3-200429 **Lab Sample ID: 600-204524-1**
Date Collected: 04/29/20 08:48 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 89.1**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.00151	U	0.0374	0.00151	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Acenaphthene	0.00162	U	0.0374	0.00162	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Atrazine	0.00563	U	0.0374	0.00563	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1
Pentachlorophenol	0.00449	U	0.187	0.00449	mg/Kg	☼	05/05/20 08:03	05/06/20 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*38 - 130*	*05/05/20 08:03*	*05/06/20 16:27*	*1*
Nitrobenzene-d5	*78*		*10 - 155*	*05/05/20 08:03*	*05/06/20 16:27*	*1*
Terphenyl-d14	*103*		*53 - 134*	*05/05/20 08:03*	*05/06/20 16:27*	*1*
2-Fluorophenol	*87*		*25 - 132*	*05/05/20 08:03*	*05/06/20 16:27*	*1*
2,4,6-Tribromophenol	*80*		*10 - 148*	*05/05/20 08:03*	*05/06/20 16:27*	*1*
Phenol-d5 (Surr)	*77*		*27 - 130*	*05/05/20 08:03*	*05/06/20 16:27*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.685	U	1.17	0.685	mg/Kg	☼	04/30/20 17:48	05/01/20 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*04/30/20 17:48*	*05/01/20 08:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.91	U	5.60	1.91	mg/Kg	☼	05/05/20 12:09	05/13/20 12:12	1
Oil Range Organics (C28-C35)	**11.5**		5.60	5.60	mg/Kg	☼	05/05/20 12:09	05/13/20 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*60 - 140*	*05/05/20 12:09*	*05/13/20 12:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00179	U	0.0187	0.00179	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1221	0.00966	U	0.0187	0.00966	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1232	0.00750	U	0.0187	0.00750	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1254	0.00247	U	0.0187	0.00247	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	☼	05/08/20 08:12	05/11/20 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*10 - 150*	*05/08/20 08:12*	*05/11/20 17:20*	*1*
DCB Decachlorobiphenyl	*116*		*10 - 150*	*05/08/20 08:12*	*05/11/20 17:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.6**		4.49	0.599	mg/Kg	☼		05/07/20 17:47	1
Nitrate as N	**31.3**		2.24	0.282	mg/Kg	☼		05/07/20 17:47	1
Fluoride	**3.36**		2.24	0.675	mg/Kg	☼		05/07/20 17:47	1
Nitrite as N	0.333	U	2.24	0.333	mg/Kg	☼		05/07/20 17:47	1
Sulfate	**163**		5.61	1.07	mg/Kg	☼		05/07/20 17:47	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-37-S-2-3-200429

Lab Sample ID: 600-204524-1
Date Collected: 04/29/20 08:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 89.1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.728	U *	1.94	0.728	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Arsenic	3.88	U	9.71	3.88	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Barium	**130**		19.4	4.85	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Beryllium	0.388	U	0.971	0.388	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Cadmium	0.233	U	0.485	0.233	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Chromium	4.37	U	9.71	4.37	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Iron	**2130**		116	58.2	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Manganese	**20.0**		4.85	1.94	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Lead	**1.48**	**J**	2.91	1.21	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Antimony	1.94	U	4.85	1.94	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Selenium	3.11	U	4.85	3.11	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Thallium	1.94	U	4.85	1.94	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Zinc	19.4	U	48.5	19.4	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20
Sodium	**143**	**J**	194	72.8	mg/Kg	☼	05/05/20 08:35	05/06/20 18:14	20
Uranium	**0.408**	**J**	0.971	0.388	mg/Kg	☼	05/05/20 08:35	05/05/20 20:52	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0110	U	0.0331	0.0110	mg/Kg	☼	05/05/20 10:23	05/06/20 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**89.1**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0185	U	0.123	0.0185	mg/Kg	☼	05/06/20 14:16	05/06/20 20:19	1
pH	**8.9**		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	**0.249**	**J**	0.278	0.233	mg/Kg	☼	05/12/20 13:33	05/12/20 19:30	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**318**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell17-Square-91-S-2-3-200429

Lab Sample ID: 600-204524-2
Date Collected: 04/29/20 09:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00105	U	0.0117	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,1-Dichloroethene	0.00143	U	0.00586	0.00143	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
trans-1,2-Dichloroethene	0.00134	U	0.00586	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Methyl tert-butyl ether	0.00214	U	0.00586	0.00214	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Methylene Chloride	0.00257	U	0.0117	0.00257	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
cis-1,2-Dichloroethene	0.000972	U	0.00586	0.000972	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Carbon tetrachloride	0.00132	U	0.00586	0.00132	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Benzene	0.000738	U	0.00586	0.000738	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,2-Dichloroethane	0.00105	U	0.00586	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Trichloroethene	0.00164	U	0.00586	0.00164	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,1,1-Trichloroethane	0.000867	U	0.00586	0.000867	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,1-Dichloroethane	0.00102	U	0.00586	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,2-Dichloropropane	0.000832	U	0.00586	0.000832	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-91-S-2-3-200429

Date Collected: 04/29/20 09:15
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-2

Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.000773	U	0.0117	0.000773	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Toluene	0.00162	U	0.00586	0.00162	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,1,2-Trichloroethane	0.000855	U	0.00586	0.000855	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Tetrachloroethene	0.000832	U	0.00586	0.000832	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,2-Dibromoethane	0.00119	U	0.00586	0.00119	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Ethylbenzene	0.00119	U	0.00586	0.00119	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Xylenes, Total	0.00132	U	0.00586	0.00132	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
Styrene	0.000832	U	0.00586	0.000832	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,1,2,2-Tetrachloroethane	0.00102	U	0.00586	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,4-Dichlorobenzene	0.000773	U	0.00586	0.000773	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,2-Dichlorobenzene	0.000937	U	0.00586	0.000937	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1
1,2,4-Trichlorobenzene	0.00231	U	0.00586	0.00231	mg/Kg	☼	04/30/20 17:13	05/01/20 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*	*04/30/20 17:13*	*05/01/20 10:41*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*04/30/20 17:13*	*05/01/20 10:41*	*1*
Toluene-d8 (Surr)	*112*		*50 - 130*	*04/30/20 17:13*	*05/01/20 10:41*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*04/30/20 17:13*	*05/01/20 10:41*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00113	U	0.0376	0.00113	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Anthracene	**0.00230**	**J**	0.0376	0.00145	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Benzo[a]anthracene	0.00156	U	0.0376	0.00156	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Benzo[b]fluoranthene	0.00194	U	0.0376	0.00194	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Benzo[k]fluoranthene	0.00168	U	0.0376	0.00168	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Benzo[g,h,i]perylene	0.00573	U	0.0376	0.00573	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Benzo[a]pyrene	0.00182	U	0.0376	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Chrysene	0.00115	U	0.0376	0.00115	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Dibenz(a,h)anthracene	0.00410	U	0.0376	0.00410	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Fluoranthene	0.00351	U	0.0376	0.00351	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Fluorene	0.00267	U	0.0376	0.00267	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Indeno[1,2,3-cd]pyrene	0.00395	U	0.0376	0.00395	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
2-Methylnaphthalene	0.00309	U	0.0376	0.00309	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Phenanthrene	0.00559	U	0.0376	0.00559	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Pyrene	0.00207	U	0.0376	0.00207	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
1-Methylnaphthalene	**0.00266**	**J**	0.0376	0.00177	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Naphthalene	0.00152	U	0.0376	0.00152	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Acenaphthene	0.00163	U	0.0376	0.00163	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Atrazine	0.00567	U	0.0376	0.00567	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1
Pentachlorophenol	0.00452	U	0.189	0.00452	mg/Kg	☼	05/05/20 08:03	05/06/20 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*38 - 130*	*05/05/20 08:03*	*05/06/20 16:51*	*1*
Nitrobenzene-d5	*77*		*10 - 155*	*05/05/20 08:03*	*05/06/20 16:51*	*1*
Terphenyl-d14	*102*		*53 - 134*	*05/05/20 08:03*	*05/06/20 16:51*	*1*
2-Fluorophenol	*81*		*25 - 132*	*05/05/20 08:03*	*05/06/20 16:51*	*1*
2,4,6-Tribromophenol	*79*		*10 - 148*	*05/05/20 08:03*	*05/06/20 16:51*	*1*
Phenol-d5 (Surr)	*75*		*27 - 130*	*05/05/20 08:03*	*05/06/20 16:51*	*1*

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-91-S-2-3-200429

Date Collected: 04/29/20 09:15
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-2

Matrix: Solid
Percent Solids: 88.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.675	U	1.15	0.675	mg/Kg	☼	04/30/20 17:48	05/01/20 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*04/30/20 17:48*	*05/01/20 08:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.06**	**J**	5.67	1.94	mg/Kg	☼	05/13/20 09:15	05/13/20 17:02	1
Oil Range Organics (C28-C35)	5.67	U	5.67	5.67	mg/Kg	☼	05/13/20 09:15	05/13/20 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*128*		*60 - 140*	*05/13/20 09:15*	*05/13/20 17:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00181	U	0.0189	0.00181	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1221	0.00977	U	0.0189	0.00977	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1232	0.00758	U	0.0189	0.00758	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1242	0.00140	U	0.0189	0.00140	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1248	0.00282	U	0.0189	0.00282	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1254	0.00250	U	0.0189	0.00250	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1
PCB-1260	0.0153	U	0.0189	0.0153	mg/Kg	☼	05/08/20 08:12	05/11/20 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*10 - 150*	*05/08/20 08:12*	*05/11/20 17:46*	*1*
DCB Decachlorobiphenyl	*148*		*10 - 150*	*05/08/20 08:12*	*05/11/20 17:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.1**		4.54	0.606	mg/Kg	☼		05/07/20 18:07	1
Nitrate as N	**37.1**		2.27	0.285	mg/Kg	☼		05/07/20 18:07	1
Fluoride	**9.26**		2.27	0.682	mg/Kg	☼		05/07/20 18:07	1
Nitrite as N	0.337	U	2.27	0.337	mg/Kg	☼		05/07/20 18:07	1
Sulfate	**185**		5.67	1.09	mg/Kg	☼		05/07/20 18:07	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.761	U *	2.03	0.761	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Arsenic	**4.32**	**J**	10.1	4.06	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Barium	**414**		20.3	5.07	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Beryllium	0.406	U	1.01	0.406	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Cadmium	0.243	U	0.507	0.243	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Chromium	4.56	U	10.1	4.56	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Iron	**1980**		122	60.9	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Manganese	**20.1**		5.07	2.03	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Lead	**1.33**	**J**	3.04	1.27	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Antimony	2.03	U	5.07	2.03	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Selenium	3.25	U	5.07	3.25	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Thallium	2.03	U	5.07	2.03	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Zinc	20.3	U	50.7	20.3	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20
Sodium	**242**		203	76.1	mg/Kg	☼	05/05/20 08:35	05/06/20 18:48	20

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-91-S-2-3-200429

Lab Sample ID: 600-204524-2
Date Collected: 04/29/20 09:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.503**	**J**	1.01	0.406	mg/Kg	☼	05/05/20 08:35	05/05/20 21:25	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0116	U	0.0347	0.0116	mg/Kg	☼	05/05/20 10:23	05/06/20 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**88.2**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0198	U	0.132	0.0198	mg/Kg	☼	05/06/20 14:16	05/06/20 20:21	1
pH	**9.1**		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	0.238	U	0.284	0.238	mg/Kg	☼	05/12/20 13:33	05/12/20 19:31	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**211**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell17-Square-129-S-2-3-200429

Lab Sample ID: 600-204524-3
Date Collected: 04/29/20 09:46
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00107	U	0.0119	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,1-Dichloroethene	0.00145	U	0.00594	0.00145	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
trans-1,2-Dichloroethene	0.00135	U	0.00594	0.00135	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Methyl tert-butyl ether	0.00217	U	0.00594	0.00217	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Methylene Chloride	0.00260	U	0.0119	0.00260	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
cis-1,2-Dichloroethene	0.000986	U	0.00594	0.000986	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Carbon tetrachloride	0.00134	U	0.00594	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Benzene	0.000748	U	0.00594	0.000748	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,2-Dichloroethane	0.00107	U	0.00594	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Trichloroethene	0.00166	U	0.00594	0.00166	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,1,1-Trichloroethane	0.000879	U	0.00594	0.000879	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,1-Dichloroethane	0.00103	U	0.00594	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,2-Dichloropropane	0.000843	U	0.00594	0.000843	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Chloroform	0.000784	U	0.0119	0.000784	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Toluene	0.00164	U	0.00594	0.00164	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,1,2-Trichloroethane	0.000867	U	0.00594	0.000867	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Tetrachloroethene	0.000843	U	0.00594	0.000843	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,2-Dibromoethane	0.00121	U	0.00594	0.00121	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Ethylbenzene	0.00121	U	0.00594	0.00121	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Xylenes, Total	0.00134	U	0.00594	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
Styrene	0.000843	U	0.00594	0.000843	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,1,2,2-Tetrachloroethane	0.00103	U	0.00594	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,4-Dichlorobenzene	0.000784	U	0.00594	0.000784	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,2-Dichlorobenzene	0.000950	U	0.00594	0.000950	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1
1,2,4-Trichlorobenzene	0.00234	U	0.00594	0.00234	mg/Kg	☼	04/30/20 17:13	05/01/20 11:04	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-129-S-2-3-200429

Date Collected: 04/29/20 09:46
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-3

Matrix: Solid
Percent Solids: 91.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130	04/30/20 17:13	05/01/20 11:04	1
Dibromofluoromethane	100		68 - 140	04/30/20 17:13	05/01/20 11:04	1
Toluene-d8 (Surr)	109		50 - 130	04/30/20 17:13	05/01/20 11:04	1
4-Bromofluorobenzene	110		57 - 140	04/30/20 17:13	05/01/20 11:04	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00109	U	0.0364	0.00109	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Anthracene	0.00140	U	0.0364	0.00140	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Benzo[a]anthracene	0.00151	U	0.0364	0.00151	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Benzo[b]fluoranthene	0.00188	U	0.0364	0.00188	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Benzo[k]fluoranthene	0.00163	U	0.0364	0.00163	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Benzo[g,h,i]perylene	0.00554	U	0.0364	0.00554	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Benzo[a]pyrene	0.00176	U	0.0364	0.00176	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Chrysene	0.00111	U	0.0364	0.00111	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Dibenz(a,h)anthracene	0.00397	U	0.0364	0.00397	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Fluoranthene	0.00340	U	0.0364	0.00340	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Fluorene	0.00258	U	0.0364	0.00258	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Indeno[1,2,3-cd]pyrene	0.00383	U	0.0364	0.00383	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
2-Methylnaphthalene	**0.0421**		0.0364	0.00299	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Phenanthrene	**0.00804**	**J**	0.0364	0.00541	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Pyrene	0.00200	U	0.0364	0.00200	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
1-Methylnaphthalene	**0.0239**	**J**	0.0364	0.00172	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Naphthalene	**0.0361**	**J**	0.0364	0.00148	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Acenaphthene	0.00157	U	0.0364	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Atrazine	0.00549	U	0.0364	0.00549	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1
Pentachlorophenol	0.00437	U	0.183	0.00437	mg/Kg	☼	05/05/20 08:03	05/06/20 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		38 - 130	05/05/20 08:03	05/06/20 17:15	1
Nitrobenzene-d5	78		10 - 155	05/05/20 08:03	05/06/20 17:15	1
Terphenyl-d14	105		53 - 134	05/05/20 08:03	05/06/20 17:15	1
2-Fluorophenol	90		25 - 132	05/05/20 08:03	05/06/20 17:15	1
2,4,6-Tribromophenol	82		10 - 148	05/05/20 08:03	05/06/20 17:15	1
Phenol-d5 (Surr)	79		27 - 130	05/05/20 08:03	05/06/20 17:15	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.602	U	1.03	0.602	mg/Kg	☼	04/30/20 17:48	05/01/20 09:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		70 - 130	04/30/20 17:48	05/01/20 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.87	U	5.46	1.87	mg/Kg	☼	05/13/20 09:15	05/13/20 17:37	1
Oil Range Organics (C28-C35)	**10.4**		5.46	5.46	mg/Kg	☼	05/13/20 09:15	05/13/20 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	110		60 - 140	05/13/20 09:15	05/13/20 17:37	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-129-S-2-3-200429
Date Collected: 04/29/20 09:46
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-3
Matrix: Solid
Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00175	U	0.0183	0.00175	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1221	0.00944	U	0.0183	0.00944	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1232	0.00733	U	0.0183	0.00733	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1242	0.00136	U	0.0183	0.00136	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1248	0.00272	U	0.0183	0.00272	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1254	0.00242	U	0.0183	0.00242	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1
PCB-1260	0.0148	U	0.0183	0.0148	mg/Kg	☼	05/08/20 08:12	05/11/20 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*10 - 150*	*05/08/20 08:12*	*05/11/20 18:11*	*1*
DCB Decachlorobiphenyl	*125*		*10 - 150*	*05/08/20 08:12*	*05/11/20 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		4.39	0.586	mg/Kg	☼		05/07/20 18:28	1
Nitrate as N	**10.9**		2.19	0.275	mg/Kg	☼		05/07/20 18:28	1
Fluoride	**6.32**		2.19	0.660	mg/Kg	☼		05/07/20 18:28	1
Nitrite as N	0.326	U	2.19	0.326	mg/Kg	☼		05/07/20 18:28	1
Sulfate	**68.5**		5.49	1.05	mg/Kg	☼		05/07/20 18:28	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.704	U *	1.88	0.704	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Arsenic	3.75	U	9.39	3.75	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Barium	**319**		18.8	4.69	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Beryllium	0.375	U	0.939	0.375	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Cadmium	0.225	U	0.469	0.225	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Chromium	4.22	U	9.39	4.22	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Iron	**3830**		113	56.3	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Manganese	**50.8**		4.69	1.88	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Lead	**2.45**	**J**	2.82	1.17	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Antimony	1.88	U	4.69	1.88	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Selenium	3.00	U	4.69	3.00	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Thallium	1.88	U	4.69	1.88	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Zinc	18.8	U	46.9	18.8	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20
Sodium	**86.0**	**J**	188	70.4	mg/Kg	☼	05/05/20 08:35	05/06/20 18:55	20
Uranium	0.375	U	0.939	0.375	mg/Kg	☼	05/05/20 08:35	05/05/20 21:32	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0114	U	0.0341	0.0114	mg/Kg	☼	05/05/20 10:23	05/06/20 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**91.1**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0197	U	0.131	0.0197	mg/Kg	☼	05/06/20 14:16	05/06/20 20:22	1
pH	**8.7**		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	**0.321**		0.269	0.226	mg/Kg	☼	05/12/20 13:33	05/12/20 19:32	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-129-S-2-3-200429

Lab Sample ID: 600-204524-3
Date Collected: 04/29/20 09:46
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**288**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell17-Square-190-S-2-3-200429

Lab Sample ID: 600-204524-4
Date Collected: 04/29/20 10:01
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00117	U	0.0130	0.00117	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,1-Dichloroethene	0.00159	U	0.00650	0.00159	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
trans-1,2-Dichloroethene	0.00148	U	0.00650	0.00148	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Methyl tert-butyl ether	0.00238	U	0.00650	0.00238	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Methylene Chloride	**0.00855**	**J b**	0.0130	0.00285	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
cis-1,2-Dichloroethene	0.00108	U	0.00650	0.00108	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Carbon tetrachloride	0.00147	U	0.00650	0.00147	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Benzene	0.000819	U	0.00650	0.000819	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,2-Dichloroethane	0.00117	U	0.00650	0.00117	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Trichloroethene	0.00182	U	0.00650	0.00182	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,1,1-Trichloroethane	0.000962	U	0.00650	0.000962	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,1-Dichloroethane	0.00113	U	0.00650	0.00113	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,2-Dichloropropane	0.000923	U	0.00650	0.000923	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Chloroform	0.000858	U	0.0130	0.000858	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Toluene	0.00179	U	0.00650	0.00179	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,1,2-Trichloroethane	0.000949	U	0.00650	0.000949	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Tetrachloroethene	0.000923	U	0.00650	0.000923	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,2-Dibromoethane	0.00133	U	0.00650	0.00133	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Ethylbenzene	0.00133	U	0.00650	0.00133	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Xylenes, Total	0.00147	U	0.00650	0.00147	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
Styrene	0.000923	U	0.00650	0.000923	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,1,2,2-Tetrachloroethane	0.00113	U	0.00650	0.00113	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,4-Dichlorobenzene	0.000858	U	0.00650	0.000858	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,2-Dichlorobenzene	0.00104	U	0.00650	0.00104	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1
1,2,4-Trichlorobenzene	0.00256	U	0.00650	0.00256	mg/Kg	☼	04/30/20 17:13	05/01/20 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*04/30/20 17:13*	*05/01/20 11:26*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*04/30/20 17:13*	*05/01/20 11:26*	*1*
Toluene-d8 (Surr)	*109*		*50 - 130*	*04/30/20 17:13*	*05/01/20 11:26*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*04/30/20 17:13*	*05/01/20 11:26*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00118	U	0.0393	0.00118	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Anthracene	0.00151	U	0.0393	0.00151	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Benzo[a]anthracene	0.00163	U	0.0393	0.00163	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Benzo[b]fluoranthene	0.00203	U	0.0393	0.00203	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Benzo[k]fluoranthene	0.00176	U	0.0393	0.00176	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Benzo[g,h,i]perylene	0.00599	U	0.0393	0.00599	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Benzo[a]pyrene	0.00190	U	0.0393	0.00190	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Chrysene	0.00120	U	0.0393	0.00120	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-190-S-2-3-200429
Date Collected: 04/29/20 10:01
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-4
Matrix: Solid
Percent Solids: 84.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.00429	U	0.0393	0.00429	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Fluoranthene	0.00367	U	0.0393	0.00367	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Fluorene	0.00279	U	0.0393	0.00279	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Indeno[1,2,3-cd]pyrene	0.00413	U	0.0393	0.00413	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
2-Methylnaphthalene	**0.00846**	**J**	0.0393	0.00324	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Phenanthrene	0.00584	U	0.0393	0.00584	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Pyrene	0.00216	U	0.0393	0.00216	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
1-Methylnaphthalene	**0.00636**	**J**	0.0393	0.00185	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Naphthalene	0.00159	U	0.0393	0.00159	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Acenaphthene	0.00170	U	0.0393	0.00170	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Atrazine	0.00593	U	0.0393	0.00593	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1
Pentachlorophenol	0.00472	U	0.197	0.00472	mg/Kg	☼	05/05/20 08:03	05/06/20 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*38 - 130*	*05/05/20 08:03*	*05/06/20 17:39*	*1*
Nitrobenzene-d5	*73*		*10 - 155*	*05/05/20 08:03*	*05/06/20 17:39*	*1*
Terphenyl-d14	*97*		*53 - 134*	*05/05/20 08:03*	*05/06/20 17:39*	*1*
2-Fluorophenol	*81*		*25 - 132*	*05/05/20 08:03*	*05/06/20 17:39*	*1*
2,4,6-Tribromophenol	*73*		*10 - 148*	*05/05/20 08:03*	*05/06/20 17:39*	*1*
Phenol-d5 (Surr)	*70*		*27 - 130*	*05/05/20 08:03*	*05/06/20 17:39*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.670	U	1.14	0.670	mg/Kg	☼	04/30/20 17:48	05/01/20 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*04/30/20 17:48*	*05/01/20 09:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.02	U	5.89	2.02	mg/Kg	☼	05/13/20 09:15	05/13/20 18:46	1
Oil Range Organics (C28-C35)	**14.2**		5.89	5.89	mg/Kg	☼	05/13/20 09:15	05/13/20 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*43*	*X*	*60 - 140*	*05/13/20 09:15*	*05/13/20 18:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00188	U	0.0196	0.00188	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1221	0.0101	U	0.0196	0.0101	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1232	0.00787	U	0.0196	0.00787	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1242	0.00146	U	0.0196	0.00146	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1248	0.00292	U	0.0196	0.00292	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1254	0.00260	U	0.0196	0.00260	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1
PCB-1260	0.0159	U	0.0196	0.0159	mg/Kg	☼	05/08/20 08:12	05/11/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*10 - 150*	*05/08/20 08:12*	*05/11/20 18:37*	*1*
DCB Decachlorobiphenyl	*119*		*10 - 150*	*05/08/20 08:12*	*05/11/20 18:37*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square-190-S-2-3-200429 Lab Sample ID: 600-204524-4

Date Collected: 04/29/20 10:01 Matrix: Solid
Date Received: 04/30/20 10:37 Percent Solids: 84.7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		4.72	0.631	mg/Kg	☼		05/07/20 19:50	1
Nitrate as N	21.3		2.36	0.296	mg/Kg	☼		05/07/20 19:50	1
Fluoride	4.91		2.36	0.710	mg/Kg	☼		05/07/20 19:50	1
Nitrite as N	0.351	U	2.36	0.351	mg/Kg	☼		05/07/20 19:50	1
Sulfate	66.5		5.90	1.13	mg/Kg	☼		05/07/20 19:50	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.810	U *	2.16	0.810	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Arsenic	4.32	U	10.8	4.32	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Barium	341		21.6	5.40	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Beryllium	0.432	U	1.08	0.432	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Cadmium	0.259	U	0.540	0.259	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Chromium	4.86	U	10.8	4.86	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Iron	2550		130	64.8	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Manganese	25.8		5.40	2.16	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Lead	1.40	J	3.24	1.35	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Antimony	2.16	U	5.40	2.16	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Selenium	3.46	U	5.40	3.46	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Thallium	2.16	U	5.40	2.16	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Zinc	21.6	U	54.0	21.6	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20
Sodium	160	J	216	81.0	mg/Kg	☼	05/05/20 08:35	05/06/20 19:01	20
Uranium	0.581	J	1.08	0.432	mg/Kg	☼	05/05/20 08:35	05/05/20 21:39	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0121	U	0.0362	0.0121	mg/Kg	☼	05/05/20 10:23	05/06/20 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	84.7		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0209	U	0.139	0.0209	mg/Kg	☼	05/06/20 14:16	05/06/20 20:23	1
pH	8.7		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	0.240	U	0.287	0.240	mg/Kg	☼	05/12/20 13:33	05/12/20 19:33	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	126		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell25-Square-187-S-2-3-200429 Lab Sample ID: 600-204524-5

Date Collected: 04/29/20 10:18 Matrix: Solid
Date Received: 04/30/20 10:37 Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00101	U	0.0112	0.00101	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,1-Dichloroethene	0.00137	U	0.00561	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
trans-1,2-Dichloroethene	0.00128	U	0.00561	0.00128	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Methyl tert-butyl ether	0.00205	U	0.00561	0.00205	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Methylene Chloride	0.00246	U	0.0112	0.00246	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-187-S-2-3-200429
Date Collected: 04/29/20 10:18
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-5
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.000931	U	0.00561	0.000931	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Carbon tetrachloride	0.00127	U	0.00561	0.00127	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Benzene	0.000706	U	0.00561	0.000706	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,2-Dichloroethane	0.00101	U	0.00561	0.00101	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Trichloroethene	0.00157	U	0.00561	0.00157	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,1,1-Trichloroethane	0.000830	U	0.00561	0.000830	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,1-Dichloroethane	0.000975	U	0.00561	0.000975	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,2-Dichloropropane	0.000796	U	0.00561	0.000796	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Chloroform	0.000740	U	0.0112	0.000740	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Toluene	0.00155	U	0.00561	0.00155	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,1,2-Trichloroethane	0.000818	U	0.00561	0.000818	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Tetrachloroethene	0.000796	U	0.00561	0.000796	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,2-Dibromoethane	0.00114	U	0.00561	0.00114	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Ethylbenzene	0.00114	U	0.00561	0.00114	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Xylenes, Total	0.00127	U	0.00561	0.00127	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
Styrene	0.000796	U	0.00561	0.000796	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,1,2,2-Tetrachloroethane	0.000975	U	0.00561	0.000975	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,4-Dichlorobenzene	0.000740	U	0.00561	0.000740	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,2-Dichlorobenzene	0.000897	U	0.00561	0.000897	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1
1,2,4-Trichlorobenzene	0.00221	U	0.00561	0.00221	mg/Kg	☼	04/30/20 17:13	05/01/20 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*04/30/20 17:13*	*05/01/20 11:48*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*04/30/20 17:13*	*05/01/20 11:48*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*04/30/20 17:13*	*05/01/20 11:48*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*04/30/20 17:13*	*05/01/20 11:48*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00115	U	0.0382	0.00115	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Anthracene	0.00147	U	0.0382	0.00147	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Benzo[a]anthracene	0.00158	U	0.0382	0.00158	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Benzo[b]fluoranthene	0.00197	U	0.0382	0.00197	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Benzo[k]fluoranthene	0.00171	U	0.0382	0.00171	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Benzo[g,h,i]perylene	0.00581	U	0.0382	0.00581	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Benzo[a]pyrene	0.00184	U	0.0382	0.00184	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Chrysene	0.00117	U	0.0382	0.00117	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Dibenz(a,h)anthracene	0.00416	U	0.0382	0.00416	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Fluoranthene	0.00356	U	0.0382	0.00356	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Fluorene	0.00270	U	0.0382	0.00270	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Indeno[1,2,3-cd]pyrene	0.00401	U	0.0382	0.00401	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
2-Methylnaphthalene	0.00314	U	0.0382	0.00314	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Phenanthrene	0.00567	U	0.0382	0.00567	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Pyrene	0.00210	U	0.0382	0.00210	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
1-Methylnaphthalene	**0.00306**	**J**	0.0382	0.00180	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Naphthalene	0.00155	U	0.0382	0.00155	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Acenaphthene	0.00165	U	0.0382	0.00165	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Atrazine	0.00575	U	0.0382	0.00575	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1
Pentachlorophenol	0.00458	U	0.191	0.00458	mg/Kg	☼	05/07/20 07:49	05/08/20 16:40	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-187-S-2-3-200429

Date Collected: 04/29/20 10:18
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-5

Matrix: Solid
Percent Solids: 87.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		38 - 130	05/07/20 07:49	05/08/20 16:40	1
Nitrobenzene-d5	71		10 - 155	05/07/20 07:49	05/08/20 16:40	1
Terphenyl-d14	99		53 - 134	05/07/20 07:49	05/08/20 16:40	1
2-Fluorophenol	81		25 - 132	05/07/20 07:49	05/08/20 16:40	1
2,4,6-Tribromophenol	68		10 - 148	05/07/20 07:49	05/08/20 16:40	1
Phenol-d5 (Surr)	69		27 - 130	05/07/20 07:49	05/08/20 16:40	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.675	U	1.15	0.675	mg/Kg	☼	04/30/20 17:48	05/01/20 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	04/30/20 17:48	05/01/20 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**19.1**		5.72	1.96	mg/Kg	☼	05/13/20 09:15	05/13/20 19:21	1
Oil Range Organics (C28-C35)	**11.7**		5.72	5.72	mg/Kg	☼	05/13/20 09:15	05/13/20 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	117		60 - 140	05/13/20 09:15	05/13/20 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00182	U	0.0190	0.00182	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1221	0.00982	U	0.0190	0.00982	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1232	0.00763	U	0.0190	0.00763	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1242	0.00141	U	0.0190	0.00141	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1248	0.00283	U	0.0190	0.00283	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1254	0.00252	U	0.0190	0.00252	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1
PCB-1260	0.0154	U	0.0190	0.0154	mg/Kg	☼	05/08/20 08:12	05/11/20 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		10 - 150	05/08/20 08:12	05/11/20 19:02	1
DCB Decachlorobiphenyl	140		10 - 150	05/08/20 08:12	05/11/20 19:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.24**	**J**	4.58	0.612	mg/Kg	☼		05/07/20 20:10	1
Nitrate as N	**8.30**		2.29	0.288	mg/Kg	☼		05/07/20 20:10	1
Fluoride	**4.45**		2.29	0.689	mg/Kg	☼		05/07/20 20:10	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	☼		05/07/20 20:10	1
Sulfate	**26.4**		5.73	1.10	mg/Kg	☼		05/07/20 20:10	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0811	U	0.216	0.0811	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Arsenic	**3.47**		1.08	0.433	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Barium	**49.7**		2.16	0.541	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Beryllium	**0.606**		0.108	0.0433	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Cadmium	**0.0381**	**J**	0.0541	0.0260	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Chromium	**7.71**		1.08	0.487	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-187-S-2-3-200429

Lab Sample ID: 600-204524-5
Date Collected: 04/29/20 10:18
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**9030**		13.0	6.49	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Manganese	**41.8**		0.541	0.216	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Lead	**5.90**		0.325	0.135	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Antimony	0.216	U ^	0.541	0.216	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Selenium	**0.589**		0.541	0.346	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Thallium	0.216	U	0.541	0.216	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Zinc	**16.6**		5.41	2.16	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Sodium	**19.3**	**J**	21.6	8.11	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2
Uranium	**0.185**		0.108	0.0433	mg/Kg	☼	05/05/20 08:35	05/06/20 19:28	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0110	U	0.0331	0.0110	mg/Kg	☼	05/05/20 10:23	05/06/20 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**87.3**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	**0.0282**	**J**	0.132	0.0198	mg/Kg	☼	05/06/20 14:16	05/06/20 20:24	1
pH	**8.1**		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	0.240	U	0.286	0.240	mg/Kg	☼	05/12/20 13:33	05/12/20 19:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**141**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell25-Square-162-S-2-3-200429

Lab Sample ID: 600-204524-6
Date Collected: 04/29/20 10:40
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00101	U	0.0113	0.00101	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,1-Dichloroethene	0.00137	U	0.00563	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
trans-1,2-Dichloroethene	0.00128	U	0.00563	0.00128	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Methyl tert-butyl ether	0.00206	U	0.00563	0.00206	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Methylene Chloride	**0.00865**	**J b**	0.0113	0.00247	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
cis-1,2-Dichloroethene	0.000935	U	0.00563	0.000935	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Carbon tetrachloride	0.00127	U	0.00563	0.00127	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Benzene	0.000710	U	0.00563	0.000710	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,2-Dichloroethane	0.00101	U	0.00563	0.00101	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Trichloroethene	0.00158	U	0.00563	0.00158	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,1,1-Trichloroethane	0.000834	U	0.00563	0.000834	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,1-Dichloroethane	0.000980	U	0.00563	0.000980	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,2-Dichloropropane	0.000800	U	0.00563	0.000800	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Chloroform	0.000744	U	0.0113	0.000744	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Toluene	0.00155	U	0.00563	0.00155	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,1,2-Trichloroethane	0.000822	U	0.00563	0.000822	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Tetrachloroethene	0.000800	U	0.00563	0.000800	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,2-Dibromoethane	0.00115	U	0.00563	0.00115	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Ethylbenzene	0.00115	U	0.00563	0.00115	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-162-S-2-3-200429
Date Collected: 04/29/20 10:40
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-6
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.00127	U	0.00563	0.00127	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
Styrene	0.000800	U	0.00563	0.000800	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,1,2,2-Tetrachloroethane	0.000980	U	0.00563	0.000980	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,4-Dichlorobenzene	0.000744	U	0.00563	0.000744	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,2-Dichlorobenzene	0.000901	U	0.00563	0.000901	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1
1,2,4-Trichlorobenzene	0.00222	U	0.00563	0.00222	mg/Kg	☼	04/30/20 17:13	05/01/20 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*	*04/30/20 17:13*	*05/01/20 12:10*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*04/30/20 17:13*	*05/01/20 12:10*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*04/30/20 17:13*	*05/01/20 12:10*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*04/30/20 17:13*	*05/01/20 12:10*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00112	U	0.0373	0.00112	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Anthracene	0.00143	U	0.0373	0.00143	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Benzo[a]anthracene	0.00155	U	0.0373	0.00155	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Benzo[b]fluoranthene	0.00193	U	0.0373	0.00193	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Benzo[k]fluoranthene	0.00167	U	0.0373	0.00167	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Benzo[g,h,i]perylene	0.00568	U	0.0373	0.00568	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Benzo[a]pyrene	0.00180	U	0.0373	0.00180	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Chrysene	0.00114	U	0.0373	0.00114	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Dibenz(a,h)anthracene	0.00406	U	0.0373	0.00406	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Fluoranthene	0.00348	U	0.0373	0.00348	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Fluorene	0.00264	U	0.0373	0.00264	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Indeno[1,2,3-cd]pyrene	0.00392	U	0.0373	0.00392	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
2-Methylnaphthalene	0.00307	U	0.0373	0.00307	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Phenanthrene	0.00554	U	0.0373	0.00554	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Pyrene	0.00205	U	0.0373	0.00205	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
1-Methylnaphthalene	0.00176	U	0.0373	0.00176	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Naphthalene	0.00151	U	0.0373	0.00151	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Acenaphthene	0.00161	U	0.0373	0.00161	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Atrazine	0.00562	U	0.0373	0.00562	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1
Pentachlorophenol	0.00448	U	0.187	0.00448	mg/Kg	☼	05/07/20 07:49	05/08/20 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*38 - 130*	*05/07/20 07:49*	*05/08/20 17:05*	*1*
Nitrobenzene-d5	*70*		*10 - 155*	*05/07/20 07:49*	*05/08/20 17:05*	*1*
Terphenyl-d14	*92*		*53 - 134*	*05/07/20 07:49*	*05/08/20 17:05*	*1*
2-Fluorophenol	*82*		*25 - 132*	*05/07/20 07:49*	*05/08/20 17:05*	*1*
2,4,6-Tribromophenol	*67*		*10 - 148*	*05/07/20 07:49*	*05/08/20 17:05*	*1*
Phenol-d5 (Surr)	*69*		*27 - 130*	*05/07/20 07:49*	*05/08/20 17:05*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.679	U	1.16	0.679	mg/Kg	☼	04/30/20 17:48	05/01/20 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*04/30/20 17:48*	*05/01/20 10:14*	*1*

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-162-S-2-3-200429

Date Collected: 04/29/20 10:40
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-6

Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.58	J	5.61	1.92	mg/Kg	☼	05/13/20 09:15	05/13/20 21:05	1
Oil Range Organics (C28-C35)	12.9		5.61	5.61	mg/Kg	☼	05/13/20 09:15	05/13/20 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*109*		*60 - 140*	*05/13/20 09:15*	*05/13/20 21:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00179	U	0.0187	0.00179	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1221	0.00966	U	0.0187	0.00966	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1232	0.00750	U	0.0187	0.00750	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1254	0.00247	U	0.0187	0.00247	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	☼	05/08/20 08:12	05/11/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*10 - 150*	*05/08/20 08:12*	*05/11/20 19:28*	*1*
DCB Decachlorobiphenyl	*161*	*X*	*10 - 150*	*05/08/20 08:12*	*05/11/20 19:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.27	J	4.49	0.599	mg/Kg	☼		05/07/20 20:30	1
Nitrate as N	3.67		2.24	0.282	mg/Kg	☼		05/07/20 20:30	1
Fluoride	3.63		2.24	0.675	mg/Kg	☼		05/07/20 20:30	1
Nitrite as N	0.333	U	2.24	0.333	mg/Kg	☼		05/07/20 20:30	1
Sulfate	29.0		5.61	1.07	mg/Kg	☼		05/07/20 20:30	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.756	U *	2.02	0.756	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Arsenic	4.03	U	10.1	4.03	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Barium	81.2		20.2	5.04	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Beryllium	0.474	J	1.01	0.403	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Cadmium	0.242	U	0.504	0.242	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Chromium	7.23	J	10.1	4.54	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Iron	7360		121	60.5	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Manganese	50.8		5.04	2.02	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Lead	5.36		3.02	1.26	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Antimony	2.02	U	5.04	2.02	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Selenium	3.23	U	5.04	3.23	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Thallium	2.02	U	5.04	2.02	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Zinc	20.2	U	50.4	20.2	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20
Sodium	75.6	U	202	75.6	mg/Kg	☼	05/05/20 08:35	05/06/20 19:35	20
Uranium	0.403	U	1.01	0.403	mg/Kg	☼	05/05/20 08:35	05/05/20 21:52	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0111	J	0.0319	0.0106	mg/Kg	☼	05/05/20 10:23	05/06/20 11:31	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-162-S-2-3-200429

Lab Sample ID: 600-204524-6
Date Collected: 04/29/20 10:40
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 89.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**89.1**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0204	U	0.136	0.0204	mg/Kg	☼	05/06/20 14:16	05/06/20 20:25	1
pH	**8.8**		0.01	0.01	SU			05/05/20 11:10	1
Phenols, Total	0.231	U	0.275	0.231	mg/Kg	☼	05/12/20 13:33	05/12/20 19:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**143**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell25-Square-179-S-2-3-200429

Lab Sample ID: 600-204524-7
Date Collected: 04/29/20 11:08
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00103	U	0.0114	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,1-Dichloroethene	0.00140	U	0.00572	0.00140	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
trans-1,2-Dichloroethene	0.00130	U	0.00572	0.00130	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Methyl tert-butyl ether	0.00209	U	0.00572	0.00209	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Methylene Chloride	**0.00823**	**J b**	0.0114	0.00251	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
cis-1,2-Dichloroethene	0.000950	U	0.00572	0.000950	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Carbon tetrachloride	0.00129	U	0.00572	0.00129	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Benzene	0.000721	U	0.00572	0.000721	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,2-Dichloroethane	0.00103	U	0.00572	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Trichloroethene	0.00160	U	0.00572	0.00160	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,1,1-Trichloroethane	0.000847	U	0.00572	0.000847	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,1-Dichloroethane	0.000995	U	0.00572	0.000995	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,2-Dichloropropane	0.000812	U	0.00572	0.000812	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Chloroform	0.000755	U	0.0114	0.000755	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Toluene	0.00158	U	0.00572	0.00158	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,1,2-Trichloroethane	0.000835	U	0.00572	0.000835	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Tetrachloroethene	0.000812	U	0.00572	0.000812	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,2-Dibromoethane	0.00117	U	0.00572	0.00117	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Ethylbenzene	0.00117	U	0.00572	0.00117	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Xylenes, Total	0.00129	U	0.00572	0.00129	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
Styrene	0.000812	U	0.00572	0.000812	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,1,2,2-Tetrachloroethane	0.000995	U	0.00572	0.000995	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,4-Dichlorobenzene	0.000755	U	0.00572	0.000755	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,2-Dichlorobenzene	0.000915	U	0.00572	0.000915	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1
1,2,4-Trichlorobenzene	0.00225	U	0.00572	0.00225	mg/Kg	☼	04/30/20 17:13	05/01/20 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*04/30/20 17:13*	*05/01/20 12:33*	*1*
Dibromofluoromethane	*99*		*68 - 140*	*04/30/20 17:13*	*05/01/20 12:33*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*04/30/20 17:13*	*05/01/20 12:33*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*04/30/20 17:13*	*05/01/20 12:33*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00119	U	0.0395	0.00119	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-179-S-2-3-200429
Date Collected: 04/29/20 11:08
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-7
Matrix: Solid
Percent Solids: 84.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.00152	U	0.0395	0.00152	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Benzo[a]anthracene	0.00164	U	0.0395	0.00164	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Benzo[b]fluoranthene	0.00204	U	0.0395	0.00204	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Benzo[k]fluoranthene	0.00177	U	0.0395	0.00177	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Benzo[g,h,i]perylene	0.00601	U	0.0395	0.00601	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Benzo[a]pyrene	0.00191	U	0.0395	0.00191	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Chrysene	0.00121	U	0.0395	0.00121	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Dibenz(a,h)anthracene	0.00430	U	0.0395	0.00430	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Fluoranthene	0.00369	U	0.0395	0.00369	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Fluorene	0.00280	U	0.0395	0.00280	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Indeno[1,2,3-cd]pyrene	0.00415	U	0.0395	0.00415	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
2-Methylnaphthalene	**0.0177**	**J**	0.0395	0.00325	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Phenanthrene	0.00587	U	0.0395	0.00587	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Pyrene	0.00217	U	0.0395	0.00217	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
1-Methylnaphthalene	**0.00893**	**J**	0.0395	0.00186	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Naphthalene	**0.00740**	**J**	0.0395	0.00160	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Acenaphthene	0.00171	U	0.0395	0.00171	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Atrazine	0.00595	U	0.0395	0.00595	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1
Pentachlorophenol	0.00474	U	0.198	0.00474	mg/Kg	☼	05/07/20 07:49	05/08/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*38 - 130*	*05/07/20 07:49*	*05/08/20 17:29*	*1*
Nitrobenzene-d5	*22*		*10 - 155*	*05/07/20 07:49*	*05/08/20 17:29*	*1*
Terphenyl-d14	*102*		*53 - 134*	*05/07/20 07:49*	*05/08/20 17:29*	*1*
2-Fluorophenol	*68*		*25 - 132*	*05/07/20 07:49*	*05/08/20 17:29*	*1*
2,4,6-Tribromophenol	*86*		*10 - 148*	*05/07/20 07:49*	*05/08/20 17:29*	*1*
Phenol-d5 (Surr)	*58*		*27 - 130*	*05/07/20 07:49*	*05/08/20 17:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.742	U	1.27	0.742	mg/Kg	☼	04/30/20 17:48	05/01/20 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*04/30/20 17:48*	*05/01/20 10:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.34**		5.92	2.03	mg/Kg	☼	05/13/20 09:15	05/13/20 21:40	1
Oil Range Organics (C28-C35)	**11.7**		5.92	5.92	mg/Kg	☼	05/13/20 09:15	05/13/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*60 - 140*	*05/13/20 09:15*	*05/13/20 21:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00189	U	0.0197	0.00189	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1
PCB-1221	0.0102	U	0.0197	0.0102	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1
PCB-1232	0.00791	U	0.0197	0.00791	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1
PCB-1242	0.00146	U	0.0197	0.00146	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1
PCB-1248	0.00294	U	0.0197	0.00294	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1
PCB-1254	0.00261	U	0.0197	0.00261	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square-179-S-2-3-200429 **Lab Sample ID: 600-204524-7**
Date Collected: 04/29/20 11:08 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 84.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.0159	U	0.0197	0.0159	mg/Kg	☼	05/08/20 08:12	05/11/20 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*10 - 150*	*05/08/20 08:12*	*05/11/20 19:53*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*05/08/20 08:12*	*05/11/20 19:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.24**	**J**	4.74	0.633	mg/Kg	☼		05/07/20 20:51	1
Nitrate as N	**9.65**		2.37	0.297	mg/Kg	☼		05/07/20 20:51	1
Fluoride	**4.04**		2.37	0.713	mg/Kg	☼		05/07/20 20:51	1
Nitrite as N	0.352	U	2.37	0.352	mg/Kg	☼		05/07/20 20:51	1
Sulfate	**32.5**		5.93	1.13	mg/Kg	☼		05/07/20 20:51	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0869	U	0.232	0.0869	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Arsenic	**3.52**		1.16	0.463	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Barium	**49.3**		2.32	0.579	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Beryllium	**0.646**		0.116	0.0463	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Cadmium	**0.0429**	**J**	0.0579	0.0278	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Chromium	**8.58**		1.16	0.521	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Iron	**10300**		13.9	6.95	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Manganese	**59.4**		0.579	0.232	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Lead	**5.65**		0.348	0.145	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Antimony	0.232	U ^	0.579	0.232	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Selenium	**0.606**		0.579	0.371	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Thallium	0.232	U	0.579	0.232	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Zinc	**21.9**		5.79	2.32	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Sodium	**33.9**		23.2	8.69	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2
Uranium	**0.309**		0.116	0.0463	mg/Kg	☼	05/05/20 08:35	05/06/20 19:42	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0119	U	0.0358	0.0119	mg/Kg	☼	05/05/20 10:23	05/06/20 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.6**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**84.4**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	**0.0284**	**J**	0.142	0.0213	mg/Kg	☼	05/06/20 14:16	05/06/20 20:27	1
pH	**7.8**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	0.249	U	0.296	0.249	mg/Kg	☼	05/12/20 13:33	05/12/20 19:39	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**4780**		100	100	mg/L			05/12/20 13:01	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-85-S-2-3-200429

Date Collected: 04/29/20 11:39
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-8

Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00106	U	0.0118	0.00106	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,1-Dichloroethene	0.00143	U	0.00588	0.00143	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
trans-1,2-Dichloroethene	0.00134	U	0.00588	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Methyl tert-butyl ether	0.00215	U	0.00588	0.00215	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Methylene Chloride	**0.00815**	**J b**	0.0118	0.00257	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
cis-1,2-Dichloroethene	0.000976	U	0.00588	0.000976	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Carbon tetrachloride	0.00133	U	0.00588	0.00133	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Benzene	0.000741	U	0.00588	0.000741	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,2-Dichloroethane	0.00106	U	0.00588	0.00106	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Trichloroethene	0.00165	U	0.00588	0.00165	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,1,1-Trichloroethane	0.000870	U	0.00588	0.000870	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,1-Dichloroethane	0.00102	U	0.00588	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,2-Dichloropropane	0.000835	U	0.00588	0.000835	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Chloroform	0.000776	U	0.0118	0.000776	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Toluene	0.00162	U	0.00588	0.00162	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,1,2-Trichloroethane	0.000858	U	0.00588	0.000858	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Tetrachloroethene	0.000835	U	0.00588	0.000835	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,2-Dibromoethane	0.00120	U	0.00588	0.00120	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Ethylbenzene	0.00120	U	0.00588	0.00120	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Xylenes, Total	0.00133	U	0.00588	0.00133	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
Styrene	0.000835	U	0.00588	0.000835	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,1,2,2-Tetrachloroethane	0.00102	U	0.00588	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,4-Dichlorobenzene	0.000776	U	0.00588	0.000776	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,2-Dichlorobenzene	0.000941	U	0.00588	0.000941	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1
1,2,4-Trichlorobenzene	0.00232	U	0.00588	0.00232	mg/Kg	☼	04/30/20 17:13	05/01/20 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*04/30/20 17:13*	*05/01/20 12:55*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*04/30/20 17:13*	*05/01/20 12:55*	*1*
Toluene-d8 (Surr)	*111*		*50 - 130*	*04/30/20 17:13*	*05/01/20 12:55*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*	*04/30/20 17:13*	*05/01/20 12:55*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00114	U	0.0381	0.00114	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Anthracene	0.00146	U	0.0381	0.00146	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Benzo[a]anthracene	0.00158	U	0.0381	0.00158	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Benzo[b]fluoranthene	0.00197	U	0.0381	0.00197	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Benzo[k]fluoranthene	0.00170	U	0.0381	0.00170	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Benzo[g,h,i]perylene	0.00579	U	0.0381	0.00579	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Benzo[a]pyrene	0.00184	U	0.0381	0.00184	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Chrysene	0.00117	U	0.0381	0.00117	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Dibenz(a,h)anthracene	0.00415	U	0.0381	0.00415	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Fluoranthene	0.00355	U	0.0381	0.00355	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Fluorene	0.00270	U	0.0381	0.00270	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Indeno[1,2,3-cd]pyrene	0.00400	U	0.0381	0.00400	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
2-Methylnaphthalene	**0.00318**	**J**	0.0381	0.00313	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Phenanthrene	0.00566	U	0.0381	0.00566	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Pyrene	0.00209	U	0.0381	0.00209	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
1-Methylnaphthalene	**0.00290**	**J**	0.0381	0.00179	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-85-S-2-3-200429
Date Collected: 04/29/20 11:39
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-8
Matrix: Solid
Percent Solids: 87.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.00154	U	0.0381	0.00154	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Acenaphthene	0.00165	U	0.0381	0.00165	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Atrazine	0.00574	U	0.0381	0.00574	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1
Pentachlorophenol	0.00457	U	0.191	0.00457	mg/Kg	☼	05/07/20 07:49	05/08/20 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*38 - 130*	*05/07/20 07:49*	*05/08/20 18:42*	*1*
Nitrobenzene-d5	*66*		*10 - 155*	*05/07/20 07:49*	*05/08/20 18:42*	*1*
Terphenyl-d14	*104*		*53 - 134*	*05/07/20 07:49*	*05/08/20 18:42*	*1*
2-Fluorophenol	*80*		*25 - 132*	*05/07/20 07:49*	*05/08/20 18:42*	*1*
2,4,6-Tribromophenol	*81*		*10 - 148*	*05/07/20 07:49*	*05/08/20 18:42*	*1*
Phenol-d5 (Surr)	*66*		*27 - 130*	*05/07/20 07:49*	*05/08/20 18:42*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.668	U	1.14	0.668	mg/Kg	☼	04/30/20 17:48	05/01/20 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*04/30/20 17:48*	*05/01/20 11:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.96	U	5.72	1.96	mg/Kg	☼	05/13/20 09:15	05/13/20 22:14	1
Oil Range Organics (C28-C35)	5.72	U	5.72	5.72	mg/Kg	☼	05/13/20 09:15	05/13/20 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*	*X*	*60 - 140*	*05/13/20 09:15*	*05/13/20 22:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1221	0.00985	U	0.0191	0.00985	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1232	0.00765	U	0.0191	0.00765	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1242	0.00142	U	0.0191	0.00142	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1248	0.00284	U	0.0191	0.00284	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1254	0.00252	U	0.0191	0.00252	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	☼	05/08/20 08:12	05/11/20 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*10 - 150*	*05/08/20 08:12*	*05/11/20 20:18*	*1*
DCB Decachlorobiphenyl	*119*		*10 - 150*	*05/08/20 08:12*	*05/11/20 20:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.58**	**J**	4.58	0.612	mg/Kg	☼		05/07/20 21:11	1
Nitrate as N	**11.0**		2.29	0.287	mg/Kg	☼		05/07/20 21:11	1
Fluoride	**6.93**		2.29	0.689	mg/Kg	☼		05/07/20 21:11	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	☼		05/07/20 21:11	1
Sulfate	**79.4**		5.73	1.10	mg/Kg	☼		05/07/20 21:11	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-85-S-2-3-200429

Lab Sample ID: 600-204524-8
Date Collected: 04/29/20 11:39
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.796	U *	2.12	0.796	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Arsenic	4.24	U	10.6	4.24	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Barium	**557**		21.2	5.30	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Beryllium	0.424	U	1.06	0.424	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Cadmium	0.255	U	0.530	0.255	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Chromium	4.77	U	10.6	4.77	mg/Kg	☼	05/05/20 08:35	05/06/20 19:48	20
Iron	**2150**		127	63.6	mg/Kg	☼	05/05/20 08:35	05/06/20 19:48	20
Manganese	**25.7**		5.30	2.12	mg/Kg	☼	05/05/20 08:35	05/06/20 19:48	20
Lead	1.33	U	3.18	1.33	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Antimony	2.12	U	5.30	2.12	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Selenium	3.39	U	5.30	3.39	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Thallium	2.12	U	5.30	2.12	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Zinc	21.2	U	53.0	21.2	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20
Sodium	79.6	U	212	79.6	mg/Kg	☼	05/05/20 08:35	05/06/20 19:48	20
Uranium	**0.513**	**J**	1.06	0.424	mg/Kg	☼	05/05/20 08:35	05/05/20 22:26	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0115	U	0.0346	0.0115	mg/Kg	☼	05/05/20 10:23	05/06/20 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**87.3**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0191	U	0.127	0.0191	mg/Kg	☼	05/06/20 14:16	05/06/20 20:28	1
pH	**8.8**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	0.235	U	0.281	0.235	mg/Kg	☼	05/12/20 13:33	05/12/20 19:40	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**99.0**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell26-Square-167-S-2-3-200429

Lab Sample ID: 600-204524-9
Date Collected: 04/29/20 11:55
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000974	U	0.0108	0.000974	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,1-Dichloroethene	0.00132	U	0.00541	0.00132	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
trans-1,2-Dichloroethene	0.00123	U	0.00541	0.00123	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Methyl tert-butyl ether	0.00198	U	0.00541	0.00198	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Methylene Chloride	**0.00754**	**J b**	0.0108	0.00237	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
cis-1,2-Dichloroethene	0.000898	U	0.00541	0.000898	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Carbon tetrachloride	0.00122	U	0.00541	0.00122	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Benzene	0.000682	U	0.00541	0.000682	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,2-Dichloroethane	0.000974	U	0.00541	0.000974	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Trichloroethene	0.00151	U	0.00541	0.00151	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,1,1-Trichloroethane	0.000801	U	0.00541	0.000801	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,1-Dichloroethane	0.000941	U	0.00541	0.000941	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,2-Dichloropropane	0.000768	U	0.00541	0.000768	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-167-S-2-3-200429 **Lab Sample ID: 600-204524-9**
Date Collected: 04/29/20 11:55 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 87.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.000714	U	0.0108	0.000714	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Toluene	0.00149	U	0.00541	0.00149	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,1,2-Trichloroethane	0.000790	U	0.00541	0.000790	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Tetrachloroethene	0.000768	U	0.00541	0.000768	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,2-Dibromoethane	0.00110	U	0.00541	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Ethylbenzene	0.00110	U	0.00541	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Xylenes, Total	0.00122	U	0.00541	0.00122	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
Styrene	0.000768	U	0.00541	0.000768	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,1,2,2-Tetrachloroethane	0.000941	U	0.00541	0.000941	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,4-Dichlorobenzene	0.000714	U	0.00541	0.000714	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,2-Dichlorobenzene	0.000866	U	0.00541	0.000866	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1
1,2,4-Trichlorobenzene	0.00213	U	0.00541	0.00213	mg/Kg	☼	04/30/20 17:13	05/01/20 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*	*04/30/20 17:13*	*05/01/20 13:17*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*04/30/20 17:13*	*05/01/20 13:17*	*1*
Toluene-d8 (Surr)	*113*		*50 - 130*	*04/30/20 17:13*	*05/01/20 13:17*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*04/30/20 17:13*	*05/01/20 13:17*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00114	U	0.0379	0.00114	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Anthracene	0.00146	U	0.0379	0.00146	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Benzo[a]anthracene	0.00157	U	0.0379	0.00157	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Benzo[b]fluoranthene	0.00196	U	0.0379	0.00196	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Benzo[k]fluoranthene	0.00170	U	0.0379	0.00170	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Benzo[g,h,i]perylene	0.00577	U	0.0379	0.00577	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Benzo[a]pyrene	0.00183	U	0.0379	0.00183	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Chrysene	0.00116	U	0.0379	0.00116	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Dibenz(a,h)anthracene	0.00413	U	0.0379	0.00413	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Fluoranthene	0.00354	U	0.0379	0.00354	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Fluorene	0.00269	U	0.0379	0.00269	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Indeno[1,2,3-cd]pyrene	0.00399	U	0.0379	0.00399	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
2-Methylnaphthalene	**0.0106**	**J**	0.0379	0.00312	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Phenanthrene	0.00564	U	0.0379	0.00564	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Pyrene	0.00208	U	0.0379	0.00208	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
1-Methylnaphthalene	**0.00530**	**J**	0.0379	0.00179	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Naphthalene	0.00154	U	0.0379	0.00154	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Acenaphthene	0.00164	U	0.0379	0.00164	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Atrazine	0.00572	U	0.0379	0.00572	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1
Pentachlorophenol	0.00456	U	0.190	0.00456	mg/Kg	☼	05/07/20 07:49	05/08/20 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*38 - 130*	*05/07/20 07:49*	*05/08/20 19:06*	*1*
Nitrobenzene-d5	*80*		*10 - 155*	*05/07/20 07:49*	*05/08/20 19:06*	*1*
Terphenyl-d14	*100*		*53 - 134*	*05/07/20 07:49*	*05/08/20 19:06*	*1*
2-Fluorophenol	*82*		*25 - 132*	*05/07/20 07:49*	*05/08/20 19:06*	*1*
2,4,6-Tribromophenol	*76*		*10 - 148*	*05/07/20 07:49*	*05/08/20 19:06*	*1*
Phenol-d5 (Surr)	*73*		*27 - 130*	*05/07/20 07:49*	*05/08/20 19:06*	*1*

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-167-S-2-3-200429

Date Collected: 04/29/20 11:55
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-9

Matrix: Solid
Percent Solids: 87.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.0325	U	0.0555	0.0325	mg/Kg	☼	04/30/20 17:48	05/01/20 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*70 - 130*	*04/30/20 17:48*	*05/01/20 11:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.95	U	5.71	1.95	mg/Kg	☼	05/13/20 09:15	05/13/20 22:49	1
Oil Range Organics (C28-C35)	**11.0**		5.71	5.71	mg/Kg	☼	05/13/20 09:15	05/13/20 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0.7*	*X*	*60 - 140*	*05/13/20 09:15*	*05/13/20 22:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1221	0.00986	U	0.0191	0.00986	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1232	0.00766	U	0.0191	0.00766	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1242	0.00142	U	0.0191	0.00142	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1248	0.00285	U	0.0191	0.00285	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1254	0.00253	U	0.0191	0.00253	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	☼	05/08/20 08:12	05/11/20 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*10 - 150*	*05/08/20 08:12*	*05/11/20 20:44*	*1*
DCB Decachlorobiphenyl	*132*		*10 - 150*	*05/08/20 08:12*	*05/11/20 20:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.35**	**J**	4.57	0.610	mg/Kg	☼		05/07/20 21:32	1
Nitrate as N	**3.04**		2.29	0.287	mg/Kg	☼		05/07/20 21:32	1
Fluoride	**4.46**		2.29	0.687	mg/Kg	☼		05/07/20 21:32	1
Nitrite as N	0.339	U	2.29	0.339	mg/Kg	☼		05/07/20 21:32	1
Sulfate	**26.9**		5.71	1.09	mg/Kg	☼		05/07/20 21:32	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.766	U *	2.04	0.766	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Arsenic	4.08	U	10.2	4.08	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Barium	**604**		20.4	5.10	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Beryllium	0.408	U	1.02	0.408	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Cadmium	0.245	U	0.510	0.245	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Chromium	4.59	U	10.2	4.59	mg/Kg	☼	05/05/20 08:35	05/06/20 19:55	20
Iron	**2600**		123	61.3	mg/Kg	☼	05/05/20 08:35	05/06/20 19:55	20
Manganese	**28.2**		5.10	2.04	mg/Kg	☼	05/05/20 08:35	05/06/20 19:55	20
Lead	**1.68**	**J**	3.06	1.28	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Antimony	2.04	U	5.10	2.04	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Selenium	3.27	U	5.10	3.27	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Thallium	2.04	U	5.10	2.04	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Zinc	20.4	U	51.0	20.4	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20
Sodium	**77.5**	**J**	204	76.6	mg/Kg	☼	05/05/20 08:35	05/06/20 19:55	20

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-167-S-2-3-200429

Lab Sample ID: 600-204524-9
Date Collected: 04/29/20 11:55
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	**0.498**	**J**	1.02	0.408	mg/Kg	☼	05/05/20 08:35	05/05/20 22:32	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0117	U	0.0351	0.0117	mg/Kg	☼	05/05/20 10:23	05/06/20 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**87.5**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0205	U	0.137	0.0205	mg/Kg	☼	05/06/20 14:16	05/06/20 20:29	1
pH	**8.9**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	**0.304**		0.277	0.233	mg/Kg	☼	05/12/20 13:33	05/12/20 19:41	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**68.0**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell26-Square-79-S-2-3-200429

Lab Sample ID: 600-204524-10
Date Collected: 04/29/20 12:22
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00114	U	0.0127	0.00114	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,1-Dichloroethene	0.00155	U	0.00634	0.00155	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
trans-1,2-Dichloroethene	0.00145	U	0.00634	0.00145	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Methyl tert-butyl ether	0.00232	U	0.00634	0.00232	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Methylene Chloride	**0.00844**	**J b**	0.0127	0.00278	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
cis-1,2-Dichloroethene	0.00105	U	0.00634	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Carbon tetrachloride	0.00143	U	0.00634	0.00143	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Benzene	0.000799	U	0.00634	0.000799	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,2-Dichloroethane	0.00114	U	0.00634	0.00114	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Trichloroethene	0.00177	U	0.00634	0.00177	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,1,1-Trichloroethane	0.000938	U	0.00634	0.000938	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,1-Dichloroethane	0.00110	U	0.00634	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,2-Dichloropropane	0.000900	U	0.00634	0.000900	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Chloroform	0.000837	U	0.0127	0.000837	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Toluene	0.00175	U	0.00634	0.00175	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,1,2-Trichloroethane	0.000925	U	0.00634	0.000925	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Tetrachloroethene	0.000900	U	0.00634	0.000900	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,2-Dibromoethane	0.00129	U	0.00634	0.00129	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Ethylbenzene	0.00129	U	0.00634	0.00129	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Xylenes, Total	0.00143	U	0.00634	0.00143	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
Styrene	0.000900	U	0.00634	0.000900	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,1,2,2-Tetrachloroethane	0.00110	U	0.00634	0.00110	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,4-Dichlorobenzene	0.000837	U	0.00634	0.000837	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,2-Dichlorobenzene	0.00101	U	0.00634	0.00101	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1
1,2,4-Trichlorobenzene	0.00250	U	0.00634	0.00250	mg/Kg	☼	04/30/20 17:13	05/01/20 13:39	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-79-S-2-3-200429

Date Collected: 04/29/20 12:22
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-10

Matrix: Solid
Percent Solids: 83.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130	04/30/20 17:13	05/01/20 13:39	1
Dibromofluoromethane	98		68 - 140	04/30/20 17:13	05/01/20 13:39	1
Toluene-d8 (Surr)	108		50 - 130	04/30/20 17:13	05/01/20 13:39	1
4-Bromofluorobenzene	109		57 - 140	04/30/20 17:13	05/01/20 13:39	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00119	U	0.0396	0.00119	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Anthracene	0.00152	U	0.0396	0.00152	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Benzo[a]anthracene	**0.00301**	**J**	0.0396	0.00164	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Benzo[b]fluoranthene	0.00205	U	0.0396	0.00205	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Benzo[k]fluoranthene	0.00177	U	0.0396	0.00177	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Benzo[g,h,i]perylene	0.00604	U	0.0396	0.00604	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Benzo[a]pyrene	0.00192	U	0.0396	0.00192	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Chrysene	0.00121	U	0.0396	0.00121	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Dibenz(a,h)anthracene	0.00432	U	0.0396	0.00432	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Fluoranthene	0.00370	U	0.0396	0.00370	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Fluorene	0.00281	U	0.0396	0.00281	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Indeno[1,2,3-cd]pyrene	0.00417	U	0.0396	0.00417	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
2-Methylnaphthalene	**0.00680**	**J**	0.0396	0.00326	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Phenanthrene	0.00589	U	0.0396	0.00589	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Pyrene	0.00218	U	0.0396	0.00218	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
1-Methylnaphthalene	**0.00456**	**J**	0.0396	0.00187	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Naphthalene	0.00161	U	0.0396	0.00161	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Acenaphthene	0.00171	U	0.0396	0.00171	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Atrazine	0.00598	U	0.0396	0.00598	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1
Pentachlorophenol	0.00476	U	0.199	0.00476	mg/Kg	☼	05/07/20 07:49	05/08/20 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		38 - 130	05/07/20 07:49	05/08/20 19:30	1
Nitrobenzene-d5	80		10 - 155	05/07/20 07:49	05/08/20 19:30	1
Terphenyl-d14	105		53 - 134	05/07/20 07:49	05/08/20 19:30	1
2-Fluorophenol	87		25 - 132	05/07/20 07:49	05/08/20 19:30	1
2,4,6-Tribromophenol	89		10 - 148	05/07/20 07:49	05/08/20 19:30	1
Phenol-d5 (Surr)	73		27 - 130	05/07/20 07:49	05/08/20 19:30	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.733	U	1.25	0.733	mg/Kg	☼	04/30/20 17:48	05/01/20 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130	04/30/20 17:48	05/01/20 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.09**		5.98	2.05	mg/Kg	☼	05/13/20 09:15	05/13/20 23:23	1
Oil Range Organics (C28-C35)	**15.7**		5.98	5.98	mg/Kg	☼	05/13/20 09:15	05/13/20 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	136		60 - 140	05/13/20 09:15	05/13/20 23:23	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-79-S-2-3-200429

Date Collected: 04/29/20 12:22
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-10

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00191	U	0.0200	0.00191	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1221	0.0103	U	0.0200	0.0103	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1232	0.00802	U	0.0200	0.00802	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1242	0.00148	U	0.0200	0.00148	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1248	0.00298	U	0.0200	0.00298	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1254	0.00264	U	0.0200	0.00264	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1
PCB-1260	0.0162	U	0.0200	0.0162	mg/Kg	☼	05/08/20 08:12	05/11/20 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*10 - 150*	*05/08/20 08:12*	*05/11/20 21:09*	*1*
DCB Decachlorobiphenyl	*150*		*10 - 150*	*05/08/20 08:12*	*05/11/20 21:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.52**	**J**	4.79	0.639	mg/Kg	☼		05/07/20 21:52	1
Nitrate as N	**9.56**		2.39	0.300	mg/Kg	☼		05/07/20 21:52	1
Fluoride	**4.14**		2.39	0.720	mg/Kg	☼		05/07/20 21:52	1
Nitrite as N	0.355	U	2.39	0.355	mg/Kg	☼		05/07/20 21:52	1
Sulfate	**23.7**		5.98	1.15	mg/Kg	☼		05/07/20 21:52	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0861	U	0.229	0.0861	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Arsenic	**4.18**		1.15	0.459	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Barium	**57.0**		2.29	0.574	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Beryllium	**0.710**		0.115	0.0459	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Cadmium	**0.0388**	**J**	0.0574	0.0275	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Chromium	**9.18**		1.15	0.516	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Iron	**11400**		13.8	6.88	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Manganese	**61.7**		0.574	0.229	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Lead	**6.28**		0.344	0.143	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Antimony	0.229	U ^	0.574	0.229	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Selenium	**0.640**		0.574	0.367	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Thallium	0.229	U	0.574	0.229	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Zinc	**21.3**		5.74	2.29	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Sodium	**20.3**	**J**	22.9	8.61	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2
Uranium	**0.269**		0.115	0.0459	mg/Kg	☼	05/05/20 08:35	05/06/20 20:02	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0119	U	0.0358	0.0119	mg/Kg	☼	05/05/20 10:23	05/06/20 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**83.6**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	**0.0409**	**J**	0.142	0.0214	mg/Kg	☼	05/06/20 14:16	05/06/20 20:30	1
pH	**8.2**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	0.248	U	0.296	0.248	mg/Kg	☼	05/12/20 13:33	05/12/20 19:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-79-S-2-3-200429 Lab Sample ID: 600-204524-10

Date Collected: 04/29/20 12:22 Matrix: Solid
Date Received: 04/30/20 10:37 Percent Solids: 83.6

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5250		100	100	mg/L			05/12/20 13:01	1

Client Sample ID: Cell26-Square-110-S-2-3-200429 Lab Sample ID: 600-204524-11

Date Collected: 04/29/20 12:52 Matrix: Solid
Date Received: 04/30/20 10:37 Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00109	U	0.0121	0.00109	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,1-Dichloroethene	0.00148	U	0.00605	0.00148	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
trans-1,2-Dichloroethene	0.00138	U	0.00605	0.00138	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Methyl tert-butyl ether	0.00222	U	0.00605	0.00222	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Methylene Chloride	0.00806	J b	0.0121	0.00265	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
cis-1,2-Dichloroethene	0.00100	U	0.00605	0.00100	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Carbon tetrachloride	0.00137	U	0.00605	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Benzene	0.000763	U	0.00605	0.000763	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,2-Dichloroethane	0.00109	U	0.00605	0.00109	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Trichloroethene	0.00169	U	0.00605	0.00169	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,1,1-Trichloroethane	0.000896	U	0.00605	0.000896	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,1-Dichloroethane	0.00105	U	0.00605	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,2-Dichloropropane	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Chloroform	0.000799	U	0.0121	0.000799	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Toluene	0.00167	U	0.00605	0.00167	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,1,2-Trichloroethane	0.000884	U	0.00605	0.000884	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Tetrachloroethene	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,2-Dibromoethane	0.00123	U	0.00605	0.00123	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Ethylbenzene	0.00123	U	0.00605	0.00123	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Xylenes, Total	0.00137	U	0.00605	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
Styrene	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,1,2,2-Tetrachloroethane	0.00105	U	0.00605	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,4-Dichlorobenzene	0.000799	U	0.00605	0.000799	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,2-Dichlorobenzene	0.000968	U	0.00605	0.000968	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1
1,2,4-Trichlorobenzene	0.00238	U	0.00605	0.00238	mg/Kg	☼	04/30/20 17:13	05/01/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*61 - 130*	*04/30/20 17:13*	*05/01/20 14:02*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*04/30/20 17:13*	*05/01/20 14:02*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*04/30/20 17:13*	*05/01/20 14:02*	*1*
4-Bromofluorobenzene	*112*		*57 - 140*	*04/30/20 17:13*	*05/01/20 14:02*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00115	U	0.0384	0.00115	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Anthracene	0.00148	U	0.0384	0.00148	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Benzo[a]anthracene	0.00159	U	0.0384	0.00159	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Benzo[b]fluoranthene	0.00199	U	0.0384	0.00199	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Benzo[k]fluoranthene	0.00172	U	0.0384	0.00172	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Benzo[g,h,i]perylene	0.00585	U	0.0384	0.00585	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Benzo[a]pyrene	0.00186	U	0.0384	0.00186	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Chrysene	0.00118	U	0.0384	0.00118	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-110-S-2-3-200429
Date Collected: 04/29/20 12:52
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-11
Matrix: Solid
Percent Solids: 86.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.00419	U	0.0384	0.00419	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Fluoranthene	0.00359	U	0.0384	0.00359	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Fluorene	0.00272	U	0.0384	0.00272	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Indeno[1,2,3-cd]pyrene	0.00404	U	0.0384	0.00404	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
2-Methylnaphthalene	0.00316	U	0.0384	0.00316	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Phenanthrene	0.00571	U	0.0384	0.00571	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Pyrene	0.00211	U	0.0384	0.00211	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
1-Methylnaphthalene	0.00181	U	0.0384	0.00181	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Naphthalene	0.00156	U	0.0384	0.00156	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Acenaphthene	0.00166	U	0.0384	0.00166	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Atrazine	0.00579	U	0.0384	0.00579	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1
Pentachlorophenol	0.00462	U	0.193	0.00462	mg/Kg	☼	05/07/20 07:49	05/08/20 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*38 - 130*	*05/07/20 07:49*	*05/08/20 19:54*	*1*
Nitrobenzene-d5	*74*		*10 - 155*	*05/07/20 07:49*	*05/08/20 19:54*	*1*
Terphenyl-d14	*100*		*53 - 134*	*05/07/20 07:49*	*05/08/20 19:54*	*1*
2-Fluorophenol	*85*		*25 - 132*	*05/07/20 07:49*	*05/08/20 19:54*	*1*
2,4,6-Tribromophenol	*74*		*10 - 148*	*05/07/20 07:49*	*05/08/20 19:54*	*1*
Phenol-d5 (Surr)	*72*		*27 - 130*	*05/07/20 07:49*	*05/08/20 19:54*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.703	U	1.20	0.703	mg/Kg	☼	04/30/20 17:48	05/01/20 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*04/30/20 17:48*	*05/01/20 13:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.09**	**J**	5.80	1.98	mg/Kg	☼	05/13/20 09:15	05/13/20 23:58	1
Oil Range Organics (C28-C35)	**10.7**		5.80	5.80	mg/Kg	☼	05/13/20 09:15	05/13/20 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*60 - 140*	*05/13/20 09:15*	*05/13/20 23:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00185	U	0.0193	0.00185	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1221	0.00999	U	0.0193	0.00999	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1232	0.00775	U	0.0193	0.00775	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1242	0.00143	U	0.0193	0.00143	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1248	0.00288	U	0.0193	0.00288	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1254	0.00256	U	0.0193	0.00256	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1
PCB-1260	0.0156	U	0.0193	0.0156	mg/Kg	☼	05/08/20 08:12	05/11/20 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*10 - 150*	*05/08/20 08:12*	*05/11/20 21:35*	*1*
DCB Decachlorobiphenyl	*116*		*10 - 150*	*05/08/20 08:12*	*05/11/20 21:35*	*1*

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-110-S-2-3-200429

Lab Sample ID: 600-204524-11
Date Collected: 04/29/20 12:52
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 86.2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.6**		4.64	0.619	mg/Kg	☼		05/07/20 23:34	1
Nitrate as N	**36.4**		2.32	0.291	mg/Kg	☼		05/07/20 23:34	1
Fluoride	**8.93**		2.32	0.697	mg/Kg	☼		05/07/20 23:34	1
Nitrite as N	0.344	U	2.32	0.344	mg/Kg	☼		05/07/20 23:34	1
Sulfate	**146**		5.80	1.11	mg/Kg	☼		05/07/20 23:34	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.821	U *	2.19	0.821	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Arsenic	**4.59**	**J**	10.9	4.38	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Barium	**222**		21.9	5.47	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Beryllium	0.438	U	1.09	0.438	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Cadmium	0.263	U	0.547	0.263	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Chromium	4.93	U	10.9	4.93	mg/Kg	☼	05/05/20 08:35	05/06/20 20:09	20
Iron	**3400**		131	65.7	mg/Kg	☼	05/05/20 08:35	05/06/20 20:09	20
Manganese	**28.6**		5.47	2.19	mg/Kg	☼	05/05/20 08:35	05/06/20 20:09	20
Lead	**1.77**	**J**	3.28	1.37	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Antimony	2.19	U	5.47	2.19	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Selenium	3.50	U	5.47	3.50	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Thallium	2.19	U	5.47	2.19	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Zinc	21.9	U	54.7	21.9	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20
Sodium	**177**	**J**	219	82.1	mg/Kg	☼	05/05/20 08:35	05/06/20 20:09	20
Uranium	**0.519**	**J**	1.09	0.438	mg/Kg	☼	05/05/20 08:35	05/05/20 22:46	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0115	U	0.0345	0.0115	mg/Kg	☼	05/05/20 10:23	05/06/20 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.8**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**86.2**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0203	U	0.135	0.0203	mg/Kg	☼	05/06/20 14:16	05/06/20 20:31	1
pH	**8.6**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	0.241	U	0.287	0.241	mg/Kg	☼	05/12/20 13:33	05/12/20 19:47	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**173**		10.0	10.0	mg/L			05/11/20 12:17	1

Client Sample ID: Cell26-Square-169-S-2-3-200429

Lab Sample ID: 600-204524-12
Date Collected: 04/29/20 13:10
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00107	U	0.0119	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,1-Dichloroethene	0.00145	U	0.00593	0.00145	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
trans-1,2-Dichloroethene	0.00135	U	0.00593	0.00135	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Methyl tert-butyl ether	0.00217	U	0.00593	0.00217	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Methylene Chloride	**0.00805**	**J b**	0.0119	0.00260	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-169-S-2-3-200429
Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-12
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.000985	U	0.00593	0.000985	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Carbon tetrachloride	0.00134	U	0.00593	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Benzene	0.000747	U	0.00593	0.000747	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,2-Dichloroethane	0.00107	U	0.00593	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Trichloroethene	0.00166	U	0.00593	0.00166	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,1,1-Trichloroethane	0.000878	U	0.00593	0.000878	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,1-Dichloroethane	0.00103	U	0.00593	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,2-Dichloropropane	0.000842	U	0.00593	0.000842	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Chloroform	0.000783	U	0.0119	0.000783	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Toluene	0.00164	U	0.00593	0.00164	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,1,2-Trichloroethane	0.000866	U	0.00593	0.000866	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Tetrachloroethene	0.000842	U	0.00593	0.000842	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,2-Dibromoethane	0.00121	U	0.00593	0.00121	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Ethylbenzene	0.00121	U	0.00593	0.00121	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Xylenes, Total	0.00134	U	0.00593	0.00134	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
Styrene	0.000842	U	0.00593	0.000842	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,1,2,2-Tetrachloroethane	0.00103	U	0.00593	0.00103	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,4-Dichlorobenzene	0.000783	U	0.00593	0.000783	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,2-Dichlorobenzene	0.000949	U	0.00593	0.000949	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1
1,2,4-Trichlorobenzene	0.00234	U	0.00593	0.00234	mg/Kg	☼	04/30/20 17:13	05/01/20 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*	*04/30/20 17:13*	*05/01/20 14:24*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*04/30/20 17:13*	*05/01/20 14:24*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*04/30/20 17:13*	*05/01/20 14:24*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*04/30/20 17:13*	*05/01/20 14:24*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00115	U	0.0382	0.00115	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Anthracene	0.00147	U	0.0382	0.00147	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Benzo[a]anthracene	0.00158	U	0.0382	0.00158	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Benzo[b]fluoranthene	0.00197	U	0.0382	0.00197	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Benzo[k]fluoranthene	0.00171	U	0.0382	0.00171	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Benzo[g,h,i]perylene	0.00582	U	0.0382	0.00582	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Benzo[a]pyrene	0.00185	U	0.0382	0.00185	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Chrysene	0.00117	U	0.0382	0.00117	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Dibenz(a,h)anthracene	0.00416	U	0.0382	0.00416	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Fluoranthene	0.00357	U	0.0382	0.00357	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Fluorene	0.00271	U	0.0382	0.00271	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Indeno[1,2,3-cd]pyrene	0.00402	U	0.0382	0.00402	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
2-Methylnaphthalene	0.00314	U	0.0382	0.00314	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Phenanthrene	0.00568	U	0.0382	0.00568	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Pyrene	0.00210	U	0.0382	0.00210	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
1-Methylnaphthalene	0.00180	U	0.0382	0.00180	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Naphthalene	0.00155	U	0.0382	0.00155	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Acenaphthene	0.00165	U	0.0382	0.00165	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Atrazine	0.00576	U	0.0382	0.00576	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1
Pentachlorophenol	0.00459	U	0.192	0.00459	mg/Kg	☼	05/07/20 07:49	05/08/20 20:18	1

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-169-S-2-3-200429

Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-12

Matrix: Solid
Percent Solids: 86.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	88		38 - 130	05/07/20 07:49	05/08/20 20:18	1
Nitrobenzene-d5	77		10 - 155	05/07/20 07:49	05/08/20 20:18	1
Terphenyl-d14	103		53 - 134	05/07/20 07:49	05/08/20 20:18	1
2-Fluorophenol	90		25 - 132	05/07/20 07:49	05/08/20 20:18	1
2,4,6-Tribromophenol	75		10 - 148	05/07/20 07:49	05/08/20 20:18	1
Phenol-d5 (Surr)	77		27 - 130	05/07/20 07:49	05/08/20 20:18	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.657	U	1.12	0.657	mg/Kg	☼	04/30/20 17:48	05/01/20 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130	04/30/20 17:48	05/01/20 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**23.2**		5.77	1.97	mg/Kg	☼	05/13/20 09:15	05/14/20 00:32	1
Oil Range Organics (C28-C35)	**17.1**		5.77	5.77	mg/Kg	☼	05/13/20 09:15	05/14/20 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	05/13/20 09:15	05/14/20 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1221	0.00994	U	0.0192	0.00994	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1232	0.00772	U	0.0192	0.00772	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1242	0.00143	U	0.0192	0.00143	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1248	0.00287	U	0.0192	0.00287	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1254	0.00255	U	0.0192	0.00255	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☼	05/13/20 04:56	05/13/20 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		10 - 150	05/13/20 04:56	05/13/20 13:03	1
DCB Decachlorobiphenyl	122		10 - 150	05/13/20 04:56	05/13/20 13:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.40**	**J**	4.61	0.616	mg/Kg	☼		05/08/20 00:35	1
Nitrate as N	**14.3**		2.31	0.289	mg/Kg	☼		05/08/20 00:35	1
Fluoride	**5.62**		2.31	0.694	mg/Kg	☼		05/08/20 00:35	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☼		05/08/20 00:35	1
Sulfate	**52.3**		5.77	1.10	mg/Kg	☼		05/08/20 00:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.837	U *	2.23	0.837	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Arsenic	**4.50**	**J**	11.2	4.47	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Barium	**212**		22.3	5.58	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Beryllium	0.447	U	1.12	0.447	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Cadmium	0.268	U	0.558	0.268	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Chromium	5.02	U	11.2	5.02	mg/Kg	☼	05/05/20 08:35	05/06/20 20:15	20

Client Sample Results

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-169-S-2-3-200429
Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-12
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4010**		134	67.0	mg/Kg	☼	05/05/20 08:35	05/06/20 20:15	20
Manganese	**42.8**		5.58	2.23	mg/Kg	☼	05/05/20 08:35	05/06/20 20:15	20
Lead	**2.19**	**J**	3.35	1.40	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Antimony	2.23	U	5.58	2.23	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Selenium	3.57	U	5.58	3.57	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Thallium	2.23	U	5.58	2.23	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Zinc	22.3	U	55.8	22.3	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20
Sodium	83.7	U	223	83.7	mg/Kg	☼	05/05/20 08:35	05/06/20 20:15	20
Uranium	**0.572**	**J**	1.12	0.447	mg/Kg	☼	05/05/20 08:35	05/05/20 22:52	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0122**	**J**	0.0360	0.0120	mg/Kg	☼	05/05/20 10:23	05/06/20 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**86.7**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0204	U	0.136	0.0204	mg/Kg	☼	05/06/20 14:16	05/06/20 20:33	1
pH	**8.7**		0.01	0.01	SU			05/05/20 11:22	1
Phenols, Total	0.235	U	0.280	0.235	mg/Kg	☼	05/12/20 13:33	05/12/20 19:48	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**99.0**		10.0	10.0	mg/L			05/11/20 12:17	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

General Chemistry

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.
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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
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

Surrogate Summary

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

Job ID: 600-204524-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-204524-1	Cell17-Square-37-S-2-3-200429	80	97	108	110
600-204524-2	Cell17-Square-91-S-2-3-200429	78	95	112	107
600-204524-3	Cell17-Square-129-S-2-3-200429	84	100	109	110
600-204524-4	Cell17-Square-190-S-2-3-200429	79	96	109	108
600-204524-5	Cell25-Square-187-S-2-3-200429	84	96	108	109
600-204524-6	Cell25-Square-162-S-2-3-200429	81	100	108	109
600-204524-7	Cell25-Square-179-S-2-3-200429	84	99	108	109
600-204524-8	Cell25-Square-85-S-2-3-200429	79	98	111	110
600-204524-9	Cell26-Square-167-S-2-3-200429	83	98	113	109
600-204524-10	Cell26-Square-79-S-2-3-200429	82	98	108	109
600-204524-11	Cell26-Square-110-S-2-3-200429	85	100	108	112
600-204524-12	Cell26-Square-169-S-2-3-200429	81	98	107	111
LCS 600-293639/3	Lab Control Sample	75	98	105	101
LCSD 600-293639/4	Lab Control Sample Dup	79	103	109	106
MB 600-293639/6	Method Blank	88	98	108	104

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (38-130)	NBZ (10-155)	TPHL (53-134)	2FP (25-132)	TBP (10-148)	PHL (27-130)
600-204524-1	Cell17-Square-37-S-2-3-200429	86	78	103	87	80	77
600-204524-2	Cell17-Square-91-S-2-3-200429	87	77	102	81	79	75
600-204524-3	Cell17-Square-129-S-2-3-200429	87	78	105	90	82	79
600-204524-4	Cell17-Square-190-S-2-3-200429	89	73	97	81	73	70
600-204524-5	Cell25-Square-187-S-2-3-200429	82	71	99	81	68	69
600-204524-6	Cell25-Square-162-S-2-3-200429	88	70	92	82	67	69
600-204524-7	Cell25-Square-179-S-2-3-200429	76	22	102	68	86	58
600-204524-7 MS	Cell25-Square-179-S-2-3-200429	75	10	87	72	39	87

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (38-130)	NBZ (10-155)	TPHL (53-134)	2FP (25-132)	TBP (10-148)	PHL (27-130)
600-204524-7 MSD	Cell25-Square-179-S-2-3-20042	58	54	73	60	64	54
600-204524-8	Cell25-Square-85-S-2-3-20042 9	85	66	104	80	81	66
600-204524-9	Cell26-Square-167-S-2-3-2004 29	82	80	100	82	76	73
600-204524-10	Cell26-Square-79-S-2-3-20042 9	91	80	105	87	89	73
600-204524-11	Cell26-Square-110-S-2-3-2004 29	87	74	100	85	74	72
600-204524-12	Cell26-Square-169-S-2-3-2004 29	88	77	103	90	75	77
LCS 600-293845/2-A	Lab Control Sample	63	52	107	53	75	45
LCS 600-294022/2-A	Lab Control Sample	87	79	96	92	85	82
MB 600-293845/1-A	Method Blank	93	92	110	98	58	83
MB 600-294022/1-A	Method Blank	96	86	120	104	71	86

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-204524-1	Cell17-Square-37-S-2-3-200429	97
600-204524-2	Cell17-Square-91-S-2-3-20042 9	96
600-204524-3	Cell17-Square-129-S-2-3-2004 29	110
600-204524-4	Cell17-Square-190-S-2-3-2004 29	102
600-204524-5	Cell25-Square-187-S-2-3-2004 29	104
600-204524-6	Cell25-Square-162-S-2-3-2004 29	90
600-204524-7	Cell25-Square-179-S-2-3-2004 29	91
600-204524-8	Cell25-Square-85-S-2-3-20042 9	96
600-204524-9	Cell26-Square-167-S-2-3-2004 29	108
600-204524-10	Cell26-Square-79-S-2-3-20042 9	108
600-204524-11	Cell26-Square-110-S-2-3-2004 29	96
600-204524-12	Cell26-Square-169-S-2-3-2004 29	94
LCS 600-293597/1-A	Lab Control Sample	105
LCS 600-293686/1-A	Lab Control Sample	105

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
LCSD 600-293597/2-A	Lab Control Sample Dup	104
LCSD 600-293686/2-A	Lab Control Sample Dup	105
MB 600-293597/3-A	Method Blank	101

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1
MB 600-293686/3-A	Method Blank	

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-204524-1	Cell17-Square-37-S-2-3-200429	108
600-204524-2	Cell17-Square-91-S-2-3-200429	128
600-204524-3	Cell17-Square-129-S-2-3-200429	110
600-204524-4	Cell17-Square-190-S-2-3-200429	43 X
600-204524-4	Cell17-Square-190-S-2-3-200429	92
600-204524-5	Cell25-Square-187-S-2-3-200429	117
600-204524-5 MS	Cell25-Square-187-S-2-3-200429	139
600-204524-5 MSD	Cell25-Square-187-S-2-3-200429	111
600-204524-6	Cell25-Square-162-S-2-3-200429	109
600-204524-7	Cell25-Square-179-S-2-3-200429	73
600-204524-8	Cell25-Square-85-S-2-3-200429	47 X
600-204524-8	Cell25-Square-85-S-2-3-200429	100
600-204524-9	Cell26-Square-167-S-2-3-200429	0.7 X
600-204524-9	Cell26-Square-167-S-2-3-200429	77
600-204524-10	Cell26-Square-79-S-2-3-200429	136
600-204524-11	Cell26-Square-110-S-2-3-200429	104

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
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 (60-140)
600-204524-12	Cell26-Square-169-S-2-3-20042	73
LCS 600-293878/2-A	Lab Control Sample	69
LCS 600-294384/2-A	Lab Control Sample	119
LCS 600-294664/2-A	Lab Control Sample	129
LCSD 600-293878/23-A	Lab Control Sample Dup	88
MB 600-293878/1-A	Method Blank	73
MB 600-294384/1-A	Method Blank	123
MB 600-294664/1-A	Method Blank	121

Surrogate Legend

OTPH = o-Terphenyl

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-204524-1	Cell17-Square-37-S-2-3-200429	77	116
600-204524-2	Cell17-Square-91-S-2-3-200429	62	148
600-204524-3	Cell17-Square-129-S-2-3-200429	92	125
600-204524-4	Cell17-Square-190-S-2-3-200429	76	119
600-204524-5	Cell25-Square-187-S-2-3-200429	103	140
600-204524-6	Cell25-Square-162-S-2-3-200429	125	161 X
600-204524-7	Cell25-Square-179-S-2-3-200429	94	103
600-204524-8	Cell25-Square-85-S-2-3-200429	59	119
600-204524-9	Cell26-Square-167-S-2-3-200429	87	132
600-204524-10	Cell26-Square-79-S-2-3-200429	91	150
600-204524-11	Cell26-Square-110-S-2-3-200429	97	116
600-204524-12	Cell26-Square-169-S-2-3-200429	100	122
LCS 600-294110/2-A	Lab Control Sample	53	113
LCS 600-294361/2-A	Lab Control Sample	115	111
LCSD 600-294361/3-A	Lab Control Sample Dup	107	124
MB 600-294110/1-A	Method Blank	61	104
MB 600-294361/1-A	Method Blank	98	105

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: MB 600-293639/6
Matrix: Solid
Analysis Batch: 293639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/01/20 08:51	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/01/20 08:51	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/01/20 08:51	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/01/20 08:51	1
Methylene Chloride	0.006116	J	0.0100	0.00219	mg/Kg			05/01/20 08:51	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/01/20 08:51	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/01/20 08:51	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/01/20 08:51	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/01/20 08:51	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/01/20 08:51	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/01/20 08:51	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/20 08:51	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
Chloroform	0.000660	U	0.0100	0.000660	mg/Kg			05/01/20 08:51	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/01/20 08:51	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/01/20 08:51	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
1,2-Dibromoethane	0.00102	U	0.00500	0.00102	mg/Kg			05/01/20 08:51	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/01/20 08:51	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/01/20 08:51	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/20 08:51	1
1,4-Dichlorobenzene	0.000660	U	0.00500	0.000660	mg/Kg			05/01/20 08:51	1
1,2-Dichlorobenzene	0.000800	U	0.00500	0.000800	mg/Kg			05/01/20 08:51	1
1,2,4-Trichlorobenzene	0.00197	U	0.00500	0.00197	mg/Kg			05/01/20 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*		*05/01/20 08:51*	*1*
Dibromofluoromethane	*98*		*68 - 140*		*05/01/20 08:51*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*		*05/01/20 08:51*	*1*
4-Bromofluorobenzene	*104*		*57 - 140*		*05/01/20 08:51*	*1*

Lab Sample ID: LCS 600-293639/3
Matrix: Solid
Analysis Batch: 293639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.0500	0.02949		mg/Kg		59	40 - 148
1,1-Dichloroethene	0.0500	0.03869		mg/Kg		77	62 - 142
trans-1,2-Dichloroethene	0.0500	0.05049		mg/Kg		101	69 - 130
Methyl tert-butyl ether	0.0500	0.05511		mg/Kg		110	63 - 132
Methylene Chloride	0.0500	0.04734		mg/Kg		95	61 - 150
cis-1,2-Dichloroethene	0.0500	0.04828		mg/Kg		97	70 - 130
Carbon tetrachloride	0.0500	0.04751		mg/Kg		95	58 - 130
Benzene	0.0500	0.04833		mg/Kg		97	70 - 131
1,2-Dichloroethane	0.0500	0.04356		mg/Kg		87	58 - 137
Trichloroethene	0.0500	0.05779		mg/Kg		116	63 - 135
1,1,1-Trichloroethane	0.0500	0.04558		mg/Kg		91	59 - 130

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: LCS 600-293639/3
Matrix: Solid
Analysis Batch: 293639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.04408		mg/Kg		88	63 - 140
1,2-Dichloropropane	0.0500	0.04858		mg/Kg		97	70 - 130
Chloroform	0.0500	0.04545		mg/Kg		91	69 - 130
Toluene	0.0500	0.04899		mg/Kg		98	67 - 130
1,1,2-Trichloroethane	0.0500	0.05295		mg/Kg		106	67 - 134
Tetrachloroethene	0.0500	0.06164		mg/Kg		123	43 - 143
1,2-Dibromoethane	0.0500	0.05513		mg/Kg		110	65 - 136
Ethylbenzene	0.0500	0.05507		mg/Kg		110	66 - 130
m-Xylene & p-Xylene	0.0500	0.04987		mg/Kg		100	64 - 130
Xylenes, Total	0.100	0.1037		mg/Kg		104	63 - 130
o-Xylene	0.0500	0.05380		mg/Kg		108	62 - 130
Styrene	0.0500	0.06313		mg/Kg		126	65 - 133
1,1,2,2-Tetrachloroethane	0.0500	0.03869		mg/Kg		77	61 - 138
1,4-Dichlorobenzene	0.0500	0.04768		mg/Kg		95	65 - 131
1,2-Dichlorobenzene	0.0500	0.04881		mg/Kg		98	61 - 131
1,2,4-Trichlorobenzene	0.0500	0.05682		mg/Kg		114	53 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*98*		*68 - 140*
Toluene-d8 (Surr)	*105*		*50 - 130*
4-Bromofluorobenzene	*101*		*57 - 140*

Lab Sample ID: LCSD 600-293639/4
Matrix: Solid
Analysis Batch: 293639

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
Vinyl chloride	0.0500	0.03132		mg/Kg		63	40 - 148	6	30
1,1-Dichloroethene	0.0500	0.04212		mg/Kg		84	62 - 142	8	30
trans-1,2-Dichloroethene	0.0500	0.05033		mg/Kg		101	69 - 130	0	30
Methyl tert-butyl ether	0.0500	0.05757		mg/Kg		115	63 - 132	4	30
Methylene Chloride	0.0500	0.04709		mg/Kg		94	61 - 150	1	30
cis-1,2-Dichloroethene	0.0500	0.05069		mg/Kg		101	70 - 130	5	30
Carbon tetrachloride	0.0500	0.04991		mg/Kg		100	58 - 130	5	30
Benzene	0.0500	0.05095		mg/Kg		102	70 - 131	5	30
1,2-Dichloroethane	0.0500	0.04578		mg/Kg		92	58 - 137	5	30
Trichloroethene	0.0500	0.06169		mg/Kg		123	63 - 135	7	30
1,1,1-Trichloroethane	0.0500	0.04751		mg/Kg		95	59 - 130	4	30
1,1-Dichloroethane	0.0500	0.04696		mg/Kg		94	63 - 140	6	30
1,2-Dichloropropane	0.0500	0.05142		mg/Kg		103	70 - 130	6	30
Chloroform	0.0500	0.04641		mg/Kg		93	69 - 130	2	30
Toluene	0.0500	0.05072		mg/Kg		101	67 - 130	3	30
1,1,2-Trichloroethane	0.0500	0.05617		mg/Kg		112	67 - 134	6	30
Tetrachloroethene	0.0500	0.06247		mg/Kg		125	43 - 143	1	30
1,2-Dibromoethane	0.0500	0.05880		mg/Kg		118	65 - 136	6	30
Ethylbenzene	0.0500	0.05528		mg/Kg		111	66 - 130	0	30
m-Xylene & p-Xylene	0.0500	0.04948		mg/Kg		99	64 - 130	1	30

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: LCSD 600-293639/4
Matrix: Solid
Analysis Batch: 293639

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
Xylenes, Total			0.100	0.1037		mg/Kg		104	63 - 130	0	30
o-Xylene			0.0500	0.05424		mg/Kg		108	62 - 130	1	30
Styrene			0.0500	0.06228		mg/Kg		125	65 - 133	1	30
1,1,2,2-Tetrachloroethane			0.0500	0.04196		mg/Kg		84	61 - 138	8	30
1,4-Dichlorobenzene			0.0500	0.04721		mg/Kg		94	65 - 131	1	30
1,2-Dichlorobenzene			0.0500	0.04862		mg/Kg		97	61 - 131	0	30
1,2,4-Trichlorobenzene			0.0500	0.05718		mg/Kg		114	53 - 136	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*
Dibromofluoromethane	*103*		*68 - 140*
Toluene-d8 (Surr)	*109*		*50 - 130*
4-Bromofluorobenzene	*106*		*57 - 140*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.000999	U	0.0333	0.000999	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Anthracene	0.00128	U	0.0333	0.00128	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]anthracene	0.00138	U	0.0333	0.00138	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[b]fluoranthene	0.00172	U	0.0333	0.00172	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[k]fluoranthene	0.00149	U	0.0333	0.00149	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[g,h,i]perylene	0.00507	U	0.0333	0.00507	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]pyrene	0.00161	U	0.0333	0.00161	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Chrysene	0.00102	U	0.0333	0.00102	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Dibenz(a,h)anthracene	0.00363	U	0.0333	0.00363	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Fluoranthene	0.00311	U	0.0333	0.00311	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Fluorene	0.00236	U	0.0333	0.00236	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0333	0.00350	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
2-Methylnaphthalene	0.00274	U	0.0333	0.00274	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Phenanthrene	0.00495	U	0.0333	0.00495	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pyrene	0.00183	U	0.0333	0.00183	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
1-Methylnaphthalene	0.00157	U	0.0333	0.00157	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Naphthalene	0.00135	U	0.0333	0.00135	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Acenaphthene	0.00144	U	0.0333	0.00144	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Atrazine	0.00502	U	0.0333	0.00502	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/05/20 08:03	05/06/20 07:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*38 - 130*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Nitrobenzene-d5	*92*		*10 - 155*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Terphenyl-d14	*110*		*53 - 134*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2-Fluorophenol	*98*		*25 - 132*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2,4,6-Tribromophenol	*58*		*10 - 148*	*05/05/20 08:03*	*05/06/20 07:25*	*1*

QC Sample Results

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

Job ID: 600-204524-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	83		27 - 130	05/05/20 08:03	05/06/20 07:25	1

Lab Sample ID: LCS 600-293845/2-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.667	0.5186		mg/Kg		78	39 - 130
Anthracene	0.667	0.6980		mg/Kg		105	51 - 130
Benzo[a]anthracene	0.667	0.7441		mg/Kg		112	54 - 130
Benzo[b]fluoranthene	0.667	0.8595		mg/Kg		129	41 - 139
Benzo[k]fluoranthene	0.667	0.7915		mg/Kg		119	42 - 134
Benzo[g,h,i]perylene	0.667	0.7469		mg/Kg		112	38 - 142
Benzo[a]pyrene	0.667	0.7112		mg/Kg		107	44 - 131
Chrysene	0.667	0.7604		mg/Kg		114	52 - 130
Dibenz(a,h)anthracene	0.667	0.7360		mg/Kg		110	40 - 137
Fluoranthene	0.667	0.7534		mg/Kg		113	53 - 130
Fluorene	0.667	0.5893		mg/Kg		88	46 - 130
Indeno[1,2,3-cd]pyrene	0.667	0.7732		mg/Kg		116	35 - 146
2-Methylnaphthalene	0.667	0.5127		mg/Kg		77	43 - 130
Phenanthrene	0.667	0.6682		mg/Kg		100	51 - 130
Pyrene	0.667	0.7264		mg/Kg		109	53 - 130
1-Methylnaphthalene	0.667	0.4654		mg/Kg		70	43 - 130
Naphthalene	0.667	0.4054		mg/Kg		61	40 - 130
Acenaphthene	0.667	0.5042		mg/Kg		76	42 - 130
Atrazine	0.667	0.4546		mg/Kg		68	10 - 140
Pentachlorophenol	1.33	1.046		mg/Kg		78	40 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	63		38 - 130
Nitrobenzene-d5	52		10 - 155
Terphenyl-d14	107		53 - 134
2-Fluorophenol	53		25 - 132
2,4,6-Tribromophenol	75		10 - 148
Phenol-d5 (Surr)	45		27 - 130

Lab Sample ID: MB 600-294022/1-A
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00100	U	0.0333	0.00100	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Anthracene	0.00128	U	0.0333	0.00128	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Benzo[a]anthracene	0.00138	U	0.0333	0.00138	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Benzo[b]fluoranthene	0.00172	U	0.0333	0.00172	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Benzo[k]fluoranthene	0.00149	U	0.0333	0.00149	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Benzo[g,h,i]perylene	0.00507	U	0.0333	0.00507	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Benzo[a]pyrene	0.00161	U	0.0333	0.00161	mg/Kg		05/07/20 07:49	05/08/20 12:32	1

QC Sample Results

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

Job ID: 600-204524-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-294022/1-A
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294022

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.00102	U	0.0333	0.00102	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Dibenz(a,h)anthracene	0.00363	U	0.0333	0.00363	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Fluoranthene	0.00311	U	0.0333	0.00311	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Fluorene	0.00236	U	0.0333	0.00236	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0333	0.00350	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
2-Methylnaphthalene	0.00274	U	0.0333	0.00274	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Phenanthrene	0.00495	U	0.0333	0.00495	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Pyrene	0.00183	U	0.0333	0.00183	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
1-Methylnaphthalene	0.00157	U	0.0333	0.00157	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Naphthalene	0.00135	U	0.0333	0.00135	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Acenaphthene	0.00144	U	0.0333	0.00144	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Atrazine	0.00502	U	0.0333	0.00502	mg/Kg		05/07/20 07:49	05/08/20 12:32	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/07/20 07:49	05/08/20 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*38 - 130*	*05/07/20 07:49*	*05/08/20 12:32*	*1*
Nitrobenzene-d5	*86*		*10 - 155*	*05/07/20 07:49*	*05/08/20 12:32*	*1*
Terphenyl-d14	*120*		*53 - 134*	*05/07/20 07:49*	*05/08/20 12:32*	*1*
2-Fluorophenol	*104*		*25 - 132*	*05/07/20 07:49*	*05/08/20 12:32*	*1*
2,4,6-Tribromophenol	*71*		*10 - 148*	*05/07/20 07:49*	*05/08/20 12:32*	*1*
Phenol-d5 (Surr)	*86*		*27 - 130*	*05/07/20 07:49*	*05/08/20 12:32*	*1*

Lab Sample ID: LCS 600-294022/2-A
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.667	0.6340		mg/Kg		95	39 - 130
Anthracene	0.667	0.6721		mg/Kg		101	51 - 130
Benzo[a]anthracene	0.667	0.6772		mg/Kg		102	54 - 130
Benzo[b]fluoranthene	0.667	0.8026		mg/Kg		120	41 - 139
Benzo[k]fluoranthene	0.667	0.7074		mg/Kg		106	42 - 134
Benzo[g,h,i]perylene	0.667	0.6894		mg/Kg		103	38 - 142
Benzo[a]pyrene	0.667	0.6489		mg/Kg		97	44 - 131
Chrysene	0.667	0.6941		mg/Kg		104	52 - 130
Dibenz(a,h)anthracene	0.667	0.6831		mg/Kg		102	40 - 137
Fluoranthene	0.667	0.6873		mg/Kg		103	53 - 130
Fluorene	0.667	0.6435		mg/Kg		97	46 - 130
Indeno[1,2,3-cd]pyrene	0.667	0.7194		mg/Kg		108	35 - 146
2-Methylnaphthalene	0.667	0.6533		mg/Kg		98	43 - 130
Phenanthrene	0.667	0.6454		mg/Kg		97	51 - 130
Pyrene	0.667	0.6668		mg/Kg		100	53 - 130
1-Methylnaphthalene	0.667	0.6216		mg/Kg		93	43 - 130
Naphthalene	0.667	0.6076		mg/Kg		91	40 - 130
Acenaphthene	0.667	0.6177		mg/Kg		93	42 - 130
Atrazine	0.667	0.4676		mg/Kg		70	10 - 140
Pentachlorophenol	1.33	0.6709		mg/Kg		50	40 - 130

QC Sample Results

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

Job ID: 600-204524-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-294022/2-A
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294022

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	87		38 - 130
Nitrobenzene-d5	79		10 - 155
Terphenyl-d14	96		53 - 134
2-Fluorophenol	92		25 - 132
2,4,6-Tribromophenol	85		10 - 148
Phenol-d5 (Surr)	82		27 - 130

Lab Sample ID: 600-204524-7 MS
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Cell25-Square-179-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 294022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.00119	U	0.790	0.2866	N1	mg/Kg	☼	36	39 - 130
Anthracene	0.00152	U	0.790	0.2401	N1	mg/Kg	☼	30	51 - 130
Benzo[a]anthracene	0.00164	U	0.790	0.4599		mg/Kg	☼	58	54 - 130
Benzo[b]fluoranthene	0.00204	U	0.790	0.7057		mg/Kg	☼	89	41 - 139
Benzo[k]fluoranthene	0.00177	U	0.790	0.4502		mg/Kg	☼	57	42 - 134
Benzo[g,h,i]perylene	0.00601	U	0.790	0.4262		mg/Kg	☼	54	38 - 142
Benzo[a]pyrene	0.00191	U	0.790	0.1561	N1	mg/Kg	☼	20	44 - 131
Chrysene	0.00121	U	0.790	0.6722		mg/Kg	☼	85	52 - 130
Dibenz(a,h)anthracene	0.00430	U	0.790	0.4780		mg/Kg	☼	60	40 - 137
Fluoranthene	0.00369	U	0.790	0.7049		mg/Kg	☼	89	53 - 130
Fluorene	0.00280	U	0.790	0.6715		mg/Kg	☼	85	46 - 130
Indeno[1,2,3-cd]pyrene	0.00415	U	0.790	0.3917		mg/Kg	☼	50	35 - 146
2-Methylnaphthalene	0.0177	J	0.790	0.6299		mg/Kg	☼	77	43 - 130
Phenanthrene	0.00587	U	0.790	0.6783		mg/Kg	☼	86	51 - 130
Pyrene	0.00217	U	0.790	0.5563		mg/Kg	☼	70	53 - 130
1-Methylnaphthalene	0.00893	J	0.790	0.6081		mg/Kg	☼	76	43 - 130
Naphthalene	0.00740	J	0.790	0.5894		mg/Kg	☼	74	40 - 130
Acenaphthene	0.00171	U	0.790	0.5715		mg/Kg	☼	72	42 - 130
Atrazine	0.00595	U	0.790	0.03474	J N1	mg/Kg	☼	4	10 - 140
Pentachlorophenol	0.00474	U	1.58	1.220		mg/Kg	☼	77	40 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	75		38 - 130
Nitrobenzene-d5	10		10 - 155
Terphenyl-d14	87		53 - 134
2-Fluorophenol	72		25 - 132
2,4,6-Tribromophenol	39		10 - 148
Phenol-d5 (Surr)	87		27 - 130

Lab Sample ID: 600-204524-7 MSD
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Cell25-Square-179-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 294022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	0.00119	U	0.790	0.4868	N2	mg/Kg	☼	62	39 - 130	52	30
Anthracene	0.00152	U	0.790	0.5549	N2	mg/Kg	☼	70	51 - 130	79	30

QC Sample Results

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

Job ID: 600-204524-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-204524-7 MSD
Matrix: Solid
Analysis Batch: 294132

Client Sample ID: Cell25-Square-179-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 294022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	0.00164	U	0.790	0.5733		mg/Kg	☼	73	54 - 130	22	30
Benzo[b]fluoranthene	0.00204	U	0.790	0.6594		mg/Kg	☼	84	41 - 139	7	30
Benzo[k]fluoranthene	0.00177	U	0.790	0.5552		mg/Kg	☼	70	42 - 134	21	30
Benzo[g,h,i]perylene	0.00601	U	0.790	0.4758		mg/Kg	☼	60	38 - 142	11	30
Benzo[a]pyrene	0.00191	U	0.790	0.4520	N2	mg/Kg	☼	57	44 - 131	97	30
Chrysene	0.00121	U	0.790	0.6166		mg/Kg	☼	78	52 - 130	9	30
Dibenz(a,h)anthracene	0.00430	U	0.790	0.5047		mg/Kg	☼	64	40 - 137	5	30
Fluoranthene	0.00369	U	0.790	0.6468		mg/Kg	☼	82	53 - 130	9	30
Fluorene	0.00280	U	0.790	0.5483		mg/Kg	☼	69	46 - 130	20	30
Indeno[1,2,3-cd]pyrene	0.00415	U	0.790	0.5111		mg/Kg	☼	65	35 - 146	26	30
2-Methylnaphthalene	0.0177	J	0.790	0.5557		mg/Kg	☼	68	43 - 130	13	30
Phenanthrene	0.00587	U	0.790	0.5834		mg/Kg	☼	74	51 - 130	15	30
Pyrene	0.00217	U	0.790	0.6204		mg/Kg	☼	79	53 - 130	11	30
1-Methylnaphthalene	0.00893	J	0.790	0.5053		mg/Kg	☼	63	43 - 130	18	30
Naphthalene	0.00740	J	0.790	0.4617		mg/Kg	☼	58	40 - 130	24	30
Acenaphthene	0.00171	U	0.790	0.5071		mg/Kg	☼	64	42 - 130	12	30
Atrazine	0.00595	U	0.790	0.1890	N2	mg/Kg	☼	24	10 - 140	138	30
Pentachlorophenol	0.00474	U	1.58	0.6584	N2	mg/Kg	☼	42	40 - 130	60	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*38 - 130*
Nitrobenzene-d5	*54*		*10 - 155*
Terphenyl-d14	*73*		*53 - 134*
2-Fluorophenol	*60*		*25 - 132*
2,4,6-Tribromophenol	*64*		*10 - 148*
Phenol-d5 (Surr)	*54*		*27 - 130*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-293597/3-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		04/30/20 09:48	04/30/20 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*04/30/20 09:48*	*04/30/20 12:20*	*1*

Lab Sample ID: LCS 600-293597/1-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			5.00	5.562		mg/Kg		111	70 - 130		

QC Sample Results

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

Job ID: 600-204524-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 600-293597/1-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293597

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	105		70 - 130

Lab Sample ID: LCSD 600-293597/2-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.539		mg/Kg		111	70 - 130	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	104		70 - 130

Lab Sample ID: MB 600-293686/3-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		05/01/20 10:55	05/01/20 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene				05/01/20 10:55	05/01/20 13:20	1

Lab Sample ID: LCS 600-293686/1-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293686

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]			5.00	5.730		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	105		70 - 130

Lab Sample ID: LCSD 600-293686/2-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.741		mg/Kg		115	70 - 130	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	105		70 - 130

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: MB 600-293878/1-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		05/05/20 12:09	05/06/20 16:26	1
Oil Range Organics (C28-C35)	4.97	U	4.97	4.97	mg/Kg		05/05/20 12:09	05/06/20 16:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*60 - 140*	*05/05/20 12:09*	*05/06/20 16:26*	*1*

Lab Sample ID: LCS 600-293878/2-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293878

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.5	80.80		mg/Kg		122	66 - 134

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*69*		*60 - 140*

Lab Sample ID: LCSD 600-293878/23-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293878

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.4	88.25		mg/Kg		133	66 - 134	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*88*		*60 - 140*

Lab Sample ID: MB 600-294384/1-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.71	U	5.00	1.71	mg/Kg		05/13/20 09:15	05/13/20 15:16	1
Oil Range Organics (C28-C35)	5.00	U	5.00	5.00	mg/Kg		05/13/20 09:15	05/13/20 15:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*123*		*60 - 140*	*05/13/20 09:15*	*05/13/20 15:16*	*1*

Lab Sample ID: LCS 600-294384/2-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	71.49		mg/Kg		107	66 - 134

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: LCS 600-294384/2-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294384

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	119		60 - 140

Lab Sample ID: 600-204524-5 MS
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Cell25-Square-187-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 294384

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	19.1		76.4	103.0		mg/Kg	☼	110	66 - 134

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	139		60 - 140

Lab Sample ID: 600-204524-5 MSD
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Cell25-Square-187-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 294384

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	19.1		76.1	46.55	N1 N2	mg/Kg	☼	36	66 - 134	76	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	111		60 - 140

Lab Sample ID: MB 600-294664/1-A
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.57	U	7.50	2.57	mg/Kg		05/18/20 08:45	05/20/20 15:53	1
Oil Range Organics (C28-C35)	NC		7.50	7.50	mg/Kg		05/18/20 08:45	05/20/20 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	121		60 - 140	05/18/20 08:45	05/20/20 15:53	1

Lab Sample ID: LCS 600-294664/2-A
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	100	72.35		mg/Kg		72	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	129		60 - 140

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: MB 600-294110/1-A
Matrix: Solid
Analysis Batch: 294210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1221	0.00858	U	0.0166	0.00858	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1232	0.00666	U	0.0166	0.00666	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1242	0.00123	U	0.0166	0.00123	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		05/08/20 08:11	05/11/20 10:34	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		05/08/20 08:11	05/11/20 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*10 - 150*	*05/08/20 08:11*	*05/11/20 10:34*	*1*
DCB Decachlorobiphenyl	*104*		*10 - 150*	*05/08/20 08:11*	*05/11/20 10:34*	*1*

Lab Sample ID: LCS 600-294110/2-A
Matrix: Solid
Analysis Batch: 294210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1302		mg/Kg		79	42 - 130
PCB-1260	0.166	0.1408		mg/Kg		85	59 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*53*		*10 - 150*
DCB Decachlorobiphenyl	*113*		*10 - 150*

Lab Sample ID: MB 600-294361/1-A
Matrix: Solid
Analysis Batch: 294394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1221	0.00858	U	0.0166	0.00858	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1232	0.00666	U	0.0166	0.00666	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1242	0.00123	U	0.0166	0.00123	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		05/13/20 04:56	05/13/20 10:55	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		05/13/20 04:56	05/13/20 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*10 - 150*	*05/13/20 04:56*	*05/13/20 10:55*	*1*
DCB Decachlorobiphenyl	*105*		*10 - 150*	*05/13/20 04:56*	*05/13/20 10:55*	*1*

Lab Sample ID: LCS 600-294361/2-A
Matrix: Solid
Analysis Batch: 294394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.166	0.1657		mg/Kg		100	42 - 130
PCB-1260	0.166	0.1447		mg/Kg		87	59 - 135

QC Sample Results

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

Job ID: 600-204524-1

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	115		10 - 150
DCB Decachlorobiphenyl	111		10 - 150

Lab Sample ID: LCSD 600-294361/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294394 — **Prep Batch: 294361**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.1979		mg/Kg		119	42 - 130	18	30
PCB-1260			0.166	0.1656		mg/Kg		100	59 - 135	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	107		10 - 150
DCB Decachlorobiphenyl	124		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-294035/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 294024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			05/07/20 10:37	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			05/07/20 10:37	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			05/07/20 10:37	1

Lab Sample ID: MB 600-294035/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 294024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			05/07/20 22:12	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			05/07/20 22:12	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			05/07/20 22:12	1

Lab Sample ID: LCS 600-294035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 294024

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			200	186.8		mg/Kg		93	90 - 110
Fluoride			75.0	80.84		mg/Kg		108	90 - 110
Sulfate			200	184.2		mg/Kg		92	90 - 110

Lab Sample ID: LCS 600-294035/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 294024

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			200	195.4		mg/Kg		98	90 - 110
Fluoride			75.0	78.90		mg/Kg		105	90 - 110
Sulfate			200	202.7		mg/Kg		101	90 - 110

QC Sample Results

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

Job ID: 600-204524-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204524-11 MS
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell26-Square-110-S-2-3-200429
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.6		116	141.6		mg/Kg	☼	104	80 - 120
Fluoride	8.93		23.2	77.78	N1	mg/Kg	☼	297	80 - 120
Sulfate	146		116	233.1	N1	mg/Kg	☼	75	80 - 120

Lab Sample ID: 600-204524-11 MSD
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell26-Square-110-S-2-3-200429
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.6		116	138.0		mg/Kg	☼	100	80 - 120	3	20
Fluoride	8.93		23.2	70.84	N1	mg/Kg	☼	267	80 - 120	9	20
Sulfate	146		116	220.0	N1	mg/Kg	☼	64	80 - 120	6	20

Lab Sample ID: MB 600-294035/1-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			05/07/20 10:37	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			05/07/20 10:37	1

Lab Sample ID: MB 600-294035/1-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			05/07/20 22:12	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			05/07/20 22:12	1

Lab Sample ID: LCS 600-294035/2-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.60		mg/Kg		92	90 - 110
Nitrite as N	100	92.61		mg/Kg		93	90 - 110

Lab Sample ID: LCS 600-294035/2-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	101.1		mg/Kg		101	90 - 110
Nitrite as N	100	96.37		mg/Kg		96	90 - 110

QC Sample Results

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

Job ID: 600-204524-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204524-11 MS
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell26-Square-110-S-2-3-200429
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	36.4		23.2	56.15		mg/Kg	☼	85	80 - 120
Nitrite as N	0.344	U	23.2	26.72		mg/Kg	☼	115	80 - 120

Lab Sample ID: 600-204524-11 MSD
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell26-Square-110-S-2-3-200429
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	36.4		23.2	53.11	N1	mg/Kg	☼	72	80 - 120	6	20
Nitrite as N	0.344	U	23.2	24.88		mg/Kg	☼	107	80 - 120	7	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469562/1-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0699	U	0.186	0.0699	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Arsenic	0.373	U	0.932	0.373	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Barium	0.466	U	1.86	0.466	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Beryllium	0.0373	U	0.0932	0.0373	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Cadmium	0.0224	U	0.0466	0.0224	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Chromium	0.419	U	0.932	0.419	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Iron	5.59	U	11.2	5.59	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Manganese	0.186	U	0.466	0.186	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Lead	0.116	U	0.280	0.116	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Antimony	0.186	U	0.466	0.186	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Selenium	0.298	U	0.466	0.298	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Thallium	0.186	U	0.466	0.186	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Zinc	1.86	U	4.66	1.86	mg/Kg		05/05/20 08:35	05/05/20 20:18	2
Uranium	0.0373	U	0.0932	0.0373	mg/Kg		05/05/20 08:35	05/05/20 20:18	2

Lab Sample ID: MB 160-469562/1-A
Matrix: Solid
Analysis Batch: 469789

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	6.99	U	18.6	6.99	mg/Kg		05/05/20 08:35	05/06/20 18:01	2

Lab Sample ID: LCSSRM 160-469562/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469562

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	32.0	33.62	*	mg/Kg		105.1	68.4 - 100.3
Arsenic	97.6	100.8		mg/Kg		103.3	70.0 - 130.1

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: LCSSRM 160-469562/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469562

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	320	321.5		mg/Kg		100.5	75.0 - 125.0
Beryllium	41.4	38.71		mg/Kg		93.5	75.1 - 125.1
Cadmium	114	108.5		mg/Kg		95.1	75.0 - 125.4
Chromium	147	129.4		mg/Kg		88.0	70.1 - 129.9
Iron	14100	13200		mg/Kg		93.6	34.8 - 164.5
Manganese	279	279.9		mg/Kg		100.3	73.8 - 125.8
Lead	105	110.9		mg/Kg		105.6	70.5 - 128.6
Antimony	99.4	70.69		mg/Kg		71.1	20.7 - 256.5
Selenium	93.1	103.3		mg/Kg		111.0	64.6 - 135.3
Thallium	104	108.2		mg/Kg		104.1	67.3 - 131.7
Zinc	212	214.8		mg/Kg		101.3	69.8 - 129.7
Uranium	22.5	23.36		mg/Kg		103.8	68.0 - 132.4

Lab Sample ID: LCSSRM 160-469562/2-A
Matrix: Solid
Analysis Batch: 469789

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469562

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	145	99.09		mg/Kg		68.3	37.4 - 162.1

Lab Sample ID: 600-204524-1 MS
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Cell17-Square-37-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 469562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.728	U *	20.5	19.61		mg/Kg	☼	95	75 - 125
Arsenic	3.88	U	103	103.9		mg/Kg	☼	101	75 - 125
Barium	130		103	268.5	N1	mg/Kg	☼	135	75 - 125
Beryllium	0.388	U	10.3	9.783		mg/Kg	☼	95	75 - 125
Cadmium	0.233	U	103	97.65		mg/Kg	☼	95	75 - 125
Chromium	4.37	U	103	90.42		mg/Kg	☼	88	75 - 125
Iron	2130		1030	3520	N1	mg/Kg	☼	135	75 - 125
Manganese	20.0		103	116.7		mg/Kg	☼	94	75 - 125
Lead	1.48	J	103	100.5		mg/Kg	☼	96	75 - 125
Antimony	1.94	U	51.4	38.86		mg/Kg	☼	76	75 - 125
Selenium	3.11	U	51.4	50.94		mg/Kg	☼	99	75 - 125
Thallium	1.94	U	20.5	19.39		mg/Kg	☼	94	75 - 125
Zinc	19.4	U	103	109.0		mg/Kg	☼	106	75 - 125
Uranium	0.408	J	103	103.6		mg/Kg	☼	100	75 - 125

QC Sample Results

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

Job ID: 600-204524-1

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

Lab Sample ID: 600-204524-1 MS — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469789 — **Prep Batch: 469562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	143	J	1030	1292		mg/Kg	☼	112	75 - 125

Lab Sample ID: 600-204524-1 MSD — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469693 — **Prep Batch: 469562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.728	U *	18.9	18.09		mg/Kg	☼	96	75 - 125	8	30
Arsenic	3.88	U	94.7	96.36		mg/Kg	☼	102	75 - 125	7	30
Barium	130		94.7	304.4	N1	mg/Kg	☼	184	75 - 125	13	30
Beryllium	0.388	U	9.47	9.167		mg/Kg	☼	97	75 - 125	6	30
Cadmium	0.233	U	94.7	90.47		mg/Kg	☼	96	75 - 125	8	30
Chromium	4.37	U	94.7	85.27		mg/Kg	☼	90	75 - 125	6	30
Iron	2130		947	4314	N1	mg/Kg	☼	230	75 - 125	20	30
Manganese	20.0		94.7	134.6		mg/Kg	☼	121	75 - 125	14	30
Lead	1.48	J	94.7	93.01		mg/Kg	☼	97	75 - 125	8	30
Antimony	1.94	U	47.4	33.81	N1	mg/Kg	☼	71	75 - 125	14	30
Selenium	3.11	U	47.4	47.43		mg/Kg	☼	100	75 - 125	7	30
Thallium	1.94	U	18.9	18.01		mg/Kg	☼	95	75 - 125	7	30
Zinc	19.4	U	94.7	103.0		mg/Kg	☼	109	75 - 125	6	30
Uranium	0.408	J	94.7	95.58		mg/Kg	☼	100	75 - 125	8	30

Lab Sample ID: 600-204524-1 MSD — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469789 — **Prep Batch: 469562**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	143	J	947	1188		mg/Kg	☼	110	75 - 125	8	30

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 160-469577/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469577**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00971	U	0.0291	0.00971	mg/Kg		05/05/20 10:23	05/06/20 11:05	1

Lab Sample ID: LCSSRM 160-469577/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469577**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.61	6.386		mg/Kg		83.9	60.1 - 140.6

QC Sample Results

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

Job ID: 600-204524-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 600-204524-2 MS
Matrix: Solid
Analysis Batch: 469706

Client Sample ID: Cell17-Square-91-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 469577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0116	U	0.890	0.8736		mg/Kg	☼	98	80 - 120

Lab Sample ID: 600-204524-2 MSD
Matrix: Solid
Analysis Batch: 469706

Client Sample ID: Cell17-Square-91-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 469577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0116	U	0.850	0.8673		mg/Kg	☼	102	80 - 120	1	30

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 600-294253/1
Matrix: Solid
Analysis Batch: 294253

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			05/11/20 12:17	1

Lab Sample ID: LCS 600-294253/2
Matrix: Solid
Analysis Batch: 294253

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	1800	1779		mg/L		99	90 - 110

Lab Sample ID: MB 600-294332/1
Matrix: Solid
Analysis Batch: 294332

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			05/12/20 13:01	1

Lab Sample ID: LCS 600-294332/2
Matrix: Solid
Analysis Batch: 294332

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	1800	1784		mg/L		99	90 - 110

Lab Sample ID: LB 600-294233/1-A
Matrix: Solid
Analysis Batch: 294253

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	10.0	U	10.0	10.0	mg/L			05/11/20 12:17	1

QC Sample Results

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

Job ID: 600-204524-1

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 600-204524-1 DU — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 294253

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	318		330.0		mg/L		4	10

Method: 2540B - Percent Moisture

Lab Sample ID: 600-204524-10 DU — **Client Sample ID: Cell26-Square-79-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 293860

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.4		17.0		%		3	20
Percent Solids	83.6		83.0		%		0.6	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-293989/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294010 — **Prep Batch: 293989**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		05/06/20 14:16	05/06/20 20:17	1

Lab Sample ID: LCS 600-293989/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294010 — **Prep Batch: 293989**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09936		mg/Kg		99	90 - 110

Lab Sample ID: 600-204524-1 MS — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294010 — **Prep Batch: 293989**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0185	U	1.27	0.09608	J N1	mg/Kg	☼	8	90 - 110

Lab Sample ID: 600-204524-1 MSD — **Client Sample ID: Cell17-Square-37-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294010 — **Prep Batch: 293989**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0185	U	1.34	0.1489	N1 N2	mg/Kg	☼	11	90 - 110	43	20

Lab Sample ID: 600-204524-11 MS — **Client Sample ID: Cell26-Square-110-S-2-3-200429**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294010 — **Prep Batch: 293989**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0203	U	1.32	0.08623	J N1	mg/Kg	☼	7	90 - 110

QC Sample Results

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

Job ID: 600-204524-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 600-204524-11 MSD
Matrix: Solid
Analysis Batch: 294010

Client Sample ID: Cell26-Square-110-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 293989

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0203	U	1.38	0.1639	N1 N2	mg/Kg	☼	12	90 - 110	62	20

Method: 9045D - pH

Lab Sample ID: 600-204524-4 DU
Matrix: Solid
Analysis Batch: 293872

Client Sample ID: Cell17-Square-190-S-2-3-200429
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.7		8.7		SU		0	1

Lab Sample ID: 600-204524-7 DU
Matrix: Solid
Analysis Batch: 293872

Client Sample ID: Cell25-Square-179-S-2-3-200429
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8		7.8		SU		0.4	1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-294336/1-A
Matrix: Solid
Analysis Batch: 294355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		05/12/20 13:33	05/12/20 19:24	1

Lab Sample ID: LCS 600-294336/2-A
Matrix: Solid
Analysis Batch: 294355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1008		mg/Kg		101	90 - 110

QC Association Summary

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

Job ID: 600-204524-1

GC/MS VOA

Prep Batch: 293583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	5030B	

Analysis Batch: 293639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	8260B	293583
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	8260B	293583
MB 600-293639/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-293639/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-293639/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 293845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3546	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	3546	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	3546	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	3546	
MB 600-293845/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 293891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	8270C LL	293845
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	8270C LL	293845
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	8270C LL	293845
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8270C LL	293845
MB 600-293845/1-A	Method Blank	Total/NA	Solid	8270C LL	293845
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	293845

QC Association Summary

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

Job ID: 600-204524-1

GC/MS Semi VOA

Prep Batch: 294022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3546	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	3546	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3546	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	3546	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	3546	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	3546	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	3546	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	3546	
MB 600-294022/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294022/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204524-7 MS	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3546	
600-204524-7 MSD	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3546	

Analysis Batch: 294132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	8270C LL	294022
MB 600-294022/1-A	Method Blank	Total/NA	Solid	8270C LL	294022
LCS 600-294022/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	294022
600-204524-7 MS	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8270C LL	294022
600-204524-7 MSD	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8270C LL	294022

GC VOA

Prep Batch: 293597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	5030B	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	5030B	
MB 600-293597/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 293600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-293597/3-A	Method Blank	Total/NA	Solid	8015B	293597

QC Association Summary

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

Job ID: 600-204524-1

GC VOA (Continued)

Analysis Batch: 293600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	8015B	293597
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293597

Analysis Batch: 293641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	8015B	293597
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	8015B	293597
MB 600-293686/3-A	Method Blank	Total/NA	Solid	8015B	293686
LCS 600-293686/1-A	Lab Control Sample	Total/NA	Solid	8015B	293686
LCSD 600-293686/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293686

Prep Batch: 293686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-293686/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293686/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293686/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 293878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3546	
MB 600-293878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 293930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-293878/1-A	Method Blank	Total/NA	Solid	8015B	293878
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	8015B	293878
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293878

Prep Batch: 294110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3546	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	3546	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	3546	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	3546	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3546	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	3546	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3546	

QC Association Summary

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

Job ID: 600-204524-1

GC Semi VOA (Continued)

Prep Batch: 294110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	3546	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	3546	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	3546	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	3546	
MB 600-294110/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294110/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 294210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	8082	294110
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	8082	294110
MB 600-294110/1-A	Method Blank	Total/NA	Solid	8082	294110
LCS 600-294110/2-A	Lab Control Sample	Total/NA	Solid	8082	294110

Prep Batch: 294361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	3546	
MB 600-294361/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294361/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-294361/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 294371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	8015B	293878
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	8015B	294384
MB 600-294384/1-A	Method Blank	Total/NA	Solid	8015B	294384
LCS 600-294384/2-A	Lab Control Sample	Total/NA	Solid	8015B	294384
600-204524-5 MS	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8015B	294384
600-204524-5 MSD	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	8015B	294384

QC Association Summary

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

Job ID: 600-204524-1

GC Semi VOA

Prep Batch: 294384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	3546	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	3546	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	3546	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3546	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	3546	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3546	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	3546	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	3546	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	3546	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	3546	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	3546	
MB 600-294384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294384/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204524-5 MS	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3546	
600-204524-5 MSD	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3546	

Analysis Batch: 294394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	8082	294361
MB 600-294361/1-A	Method Blank	Total/NA	Solid	8082	294361
LCS 600-294361/2-A	Lab Control Sample	Total/NA	Solid	8082	294361
LCSD 600-294361/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	294361

Prep Batch: 294664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	3546	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	3546	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	3546	
MB 600-294664/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294664/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 294871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	8015B	294664
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	8015B	294664
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	8015B	294664

Analysis Batch: 294887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-294664/1-A	Method Blank	Total/NA	Solid	8015B	294664
LCS 600-294664/2-A	Lab Control Sample	Total/NA	Solid	8015B	294664

HPLC/IC

Analysis Batch: 294024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-2	Cell17-Square-91-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-3	Cell17-Square-129-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-4	Cell17-Square-190-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-5	Cell25-Square-187-S-2-3-200429	Soluble	Solid	300.0	294035

QC Association Summary

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

Job ID: 600-204524-1

HPLC/IC (Continued)

Analysis Batch: 294024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-6	Cell25-Square-162-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-7	Cell25-Square-179-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-8	Cell25-Square-85-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-9	Cell26-Square-167-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-10	Cell26-Square-79-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-11	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-12	Cell26-Square-169-S-2-3-200429	Soluble	Solid	300.0	294035
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
600-204524-11 MS	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-11 MSD	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035

Analysis Batch: 294025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-2	Cell17-Square-91-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-3	Cell17-Square-129-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-4	Cell17-Square-190-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-5	Cell25-Square-187-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-6	Cell25-Square-162-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-7	Cell25-Square-179-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-8	Cell25-Square-85-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-9	Cell26-Square-167-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-10	Cell26-Square-79-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-11	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-12	Cell26-Square-169-S-2-3-200429	Soluble	Solid	300.0	294035
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
600-204524-11 MS	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035
600-204524-11 MSD	Cell26-Square-110-S-2-3-200429	Soluble	Solid	300.0	294035

Leach Batch: 294035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-2	Cell17-Square-91-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-3	Cell17-Square-129-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-4	Cell17-Square-190-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-5	Cell25-Square-187-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-6	Cell25-Square-162-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-7	Cell25-Square-179-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-8	Cell25-Square-85-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-9	Cell26-Square-167-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-10	Cell26-Square-79-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-11	Cell26-Square-110-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-12	Cell26-Square-169-S-2-3-200429	Soluble	Solid	DI Leach	
MB 600-294035/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

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

Job ID: 600-204524-1

HPLC/IC (Continued)

Leach Batch: 294035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-11 MS	Cell26-Square-110-S-2-3-200429	Soluble	Solid	DI Leach	
600-204524-11 MSD	Cell26-Square-110-S-2-3-200429	Soluble	Solid	DI Leach	

Metals

Prep Batch: 469562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	3050B	
MB 160-469562/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-469562/2-A	Lab Control Sample	Total/NA	Solid	3050B	
600-204524-1 MS	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3050B	
600-204524-1 MSD	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	3050B	

Prep Batch: 469577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	7471A	
MB 160-469577/1-A	Method Blank	Total/NA	Solid	7471A	
LCSSRM 160-469577/2-A ^5	Lab Control Sample	Total/NA	Solid	7471A	
600-204524-2 MS	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	
600-204524-2 MSD	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	

Analysis Batch: 469693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	6020	469562

QC Association Summary

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

Job ID: 600-204524-1

Metals (Continued)

Analysis Batch: 469693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	6020	469562
MB 160-469562/1-A	Method Blank	Total/NA	Solid	6020	469562
LCSSRM 160-469562/2-A	Lab Control Sample	Total/NA	Solid	6020	469562
600-204524-1 MS	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-1 MSD	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562

Analysis Batch: 469706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	7471A	469577
MB 160-469577/1-A	Method Blank	Total/NA	Solid	7471A	469577
LCSSRM 160-469577/2-A ^5	Lab Control Sample	Total/NA	Solid	7471A	469577
600-204524-2 MS	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	469577
600-204524-2 MSD	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	7471A	469577

Analysis Batch: 469789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	6020	469562
MB 160-469562/1-A	Method Blank	Total/NA	Solid	6020	469562
LCSSRM 160-469562/2-A	Lab Control Sample	Total/NA	Solid	6020	469562
600-204524-1 MS	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562
600-204524-1 MSD	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	6020	469562

General Chemistry

Analysis Batch: 293860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	2540B	

QC Association Summary

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

Job ID: 600-204524-1

General Chemistry (Continued)

Analysis Batch: 293860 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	2540B	
600-204524-10 DU	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	2540B	

Analysis Batch: 293872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	9045D	
LCS 600-293872/1	Lab Control Sample	Total/NA	Solid	9045D	
LCS 600-293872/26	Lab Control Sample	Total/NA	Solid	9045D	
600-204524-4 DU	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	9045D	
600-204524-7 DU	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	9045D	

Prep Batch: 293989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	9012B	
MB 600-293989/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-293989/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-204524-1 MS	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-1 MSD	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	
600-204524-11 MS	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	

QC Association Summary

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

Job ID: 600-204524-1

General Chemistry (Continued)

Prep Batch: 293989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-11 MSD	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	

Analysis Batch: 294010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	9012B	293989
MB 600-293989/1-A	Method Blank	Total/NA	Solid	9012B	293989
LCS 600-293989/2-A	Lab Control Sample	Total/NA	Solid	9012B	293989
600-204524-1 MS	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-1 MSD	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-11 MS	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	293989
600-204524-11 MSD	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9012B	293989

Leach Batch: 294233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-2	Cell17-Square-91-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-3	Cell17-Square-129-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-4	Cell17-Square-190-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-5	Cell25-Square-187-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-6	Cell25-Square-162-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-7	Cell25-Square-179-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-8	Cell25-Square-85-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-9	Cell26-Square-167-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-10	Cell26-Square-79-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-11	Cell26-Square-110-S-2-3-200429	7 Day Leach	Solid	335.521	
600-204524-12	Cell26-Square-169-S-2-3-200429	7 Day Leach	Solid	335.521	
LB 600-294233/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-204524-1 DU	Cell17-Square-37-S-2-3-200429	7 Day Leach	Solid	335.521	

Analysis Batch: 294253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-2	Cell17-Square-91-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-3	Cell17-Square-129-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-4	Cell17-Square-190-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-5	Cell25-Square-187-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-6	Cell25-Square-162-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-8	Cell25-Square-85-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-9	Cell26-Square-167-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-11	Cell26-Square-110-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233

QC Association Summary

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

Job ID: 600-204524-1

General Chemistry (Continued)

Analysis Batch: 294253 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-12	Cell26-Square-169-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
LB 600-294233/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	294233
MB 600-294253/1	Method Blank	Total/NA	Solid	2540 C-1997	
LCS 600-294253/2	Lab Control Sample	Total/NA	Solid	2540 C-1997	
600-204524-1 DU	Cell17-Square-37-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233

Analysis Batch: 294332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-7	Cell25-Square-179-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
600-204524-10	Cell26-Square-79-S-2-3-200429	7 Day Leach	Solid	2540 C-1997	294233
MB 600-294332/1	Method Blank	Total/NA	Solid	2540 C-1997	
LCS 600-294332/2	Lab Control Sample	Total/NA	Solid	2540 C-1997	

Prep Batch: 294336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	Distill/Phenol	
MB 600-294336/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-294336/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 294355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	9066	294336
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	9066	294336
MB 600-294336/1-A	Method Blank	Total/NA	Solid	9066	294336
LCS 600-294336/2-A	Lab Control Sample	Total/NA	Solid	9066	294336

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square-37-S-2-3-200429
Lab Sample ID: 600-204524-1
Date Collected: 04/29/20 08:48
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.16 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Client Sample ID: Cell17-Square-37-S-2-3-200429
Lab Sample ID: 600-204524-1
Date Collected: 04/29/20 08:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.58 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 10:19	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 16:27	LPL	TAL HOU
Total/NA	Prep	5030B			9.60 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 08:18	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 12:12	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 17:20	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 17:47	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 17:47	W1N	TAL HOU
Total/NA	Prep	3050B			0.5779 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 20:52	LKP	TAL SL
Total/NA	Prep	3050B			0.5779 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 18:14	FLC	TAL SL
Total/NA	Prep	7471A			0.6718 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:09	LKP	TAL SL
Total/NA	Prep	9012B			0.547 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:19	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.01 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:30	AML	TAL HOU

Client Sample ID: Cell17-Square-91-S-2-3-200429
Lab Sample ID: 600-204524-2
Date Collected: 04/29/20 09:15
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.15 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-91-S-2-3-200429

Lab Sample ID: 600-204524-2
Date Collected: 04/29/20 09:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.84 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 10:41	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 16:51	LPL	TAL HOU
Total/NA	Prep	5030B			9.84 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 08:41	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 17:02	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 17:46	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 18:07	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 18:07	W1N	TAL HOU
Total/NA	Prep	3050B			0.5590 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 21:25	LKP	TAL SL
Total/NA	Prep	3050B			0.5590 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 18:48	FLC	TAL SL
Total/NA	Prep	7471A			0.6473 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:11	LKP	TAL SL
Total/NA	Prep	9012B			0.517 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:21	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:31	AML	TAL HOU

Client Sample ID: Cell17-Square-129-S-2-3-200429

Lab Sample ID: 600-204524-3
Date Collected: 04/29/20 09:46
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.09 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Client Sample ID: Cell17-Square-129-S-2-3-200429

Lab Sample ID: 600-204524-3
Date Collected: 04/29/20 09:46
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.62 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 11:04	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 17:15	LPL	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell17-Square-129-S-2-3-200429

Lab Sample ID: 600-204524-3
Date Collected: 04/29/20 09:46
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.69 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 09:04	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 17:37	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 18:11	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 18:28	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 18:28	W1N	TAL HOU
Total/NA	Prep	3050B			0.5846 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 21:32	LKP	TAL SL
Total/NA	Prep	3050B			0.5846 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 18:55	FLC	TAL SL
Total/NA	Prep	7471A			0.6366 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:20	LKP	TAL SL
Total/NA	Prep	9012B			0.502 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:22	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:32	AML	TAL HOU

Client Sample ID: Cell17-Square-190-S-2-3-200429

Lab Sample ID: 600-204524-4
Date Collected: 04/29/20 10:01
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Client Sample ID: Cell17-Square-190-S-2-3-200429

Lab Sample ID: 600-204524-4
Date Collected: 04/29/20 10:01
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.54 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 11:26	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 17:39	LPL	TAL HOU
Total/NA	Prep	5030B			10.32 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 09:27	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 18:46	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square-190-S-2-3-200429
Lab Sample ID: 600-204524-4
Date Collected: 04/29/20 10:01
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.01 g	1.0 mL	294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294871	05/21/20 00:01	RJV	TAL HOU
Total/NA	Prep	3546			15.08 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 18:37	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 19:50	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 19:50	W1N	TAL HOU
Total/NA	Prep	3050B			0.5465 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 21:39	LKP	TAL SL
Total/NA	Prep	3050B			0.5465 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 19:01	FLC	TAL SL
Total/NA	Prep	7471A			0.6454 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:22	LKP	TAL SL
Total/NA	Prep	9012B			0.510 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:23	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.03 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:33	AML	TAL HOU

Client Sample ID: Cell25-Square-187-S-2-3-200429
Lab Sample ID: 600-204524-5
Date Collected: 04/29/20 10:18
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Client Sample ID: Cell25-Square-187-S-2-3-200429
Lab Sample ID: 600-204524-5
Date Collected: 04/29/20 10:18
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.11 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 11:48	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 16:40	PXS	TAL HOU
Total/NA	Prep	5030B			9.95 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 09:51	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 19:21	RJV	TAL HOU
Total/NA	Prep	3546			15.10 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 19:02	JAL	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-187-S-2-3-200429

Lab Sample ID: 600-204524-5
Date Collected: 04/29/20 10:18
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 20:10	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 20:10	W1N	TAL HOU
Total/NA	Prep	3050B			0.5296 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		2			469789	05/06/20 19:28	FLC	TAL SL
Total/NA	Prep	7471A			0.6855 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:24	LKP	TAL SL
Total/NA	Prep	9012B			0.520 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:24	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:34	AML	TAL HOU

Client Sample ID: Cell25-Square-162-S-2-3-200429

Lab Sample ID: 600-204524-6
Date Collected: 04/29/20 10:40
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.17 g	20 mL	293872	05/05/20 11:10	AAZ	TAL HOU

Client Sample ID: Cell25-Square-162-S-2-3-200429

Lab Sample ID: 600-204524-6
Date Collected: 04/29/20 10:40
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 12:10	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 17:05	PXS	TAL HOU
Total/NA	Prep	5030B			9.68 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 10:14	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 21:05	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 19:28	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 20:30	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 20:30	W1N	TAL HOU
Total/NA	Prep	3050B			0.5566 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 21:52	LKP	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell25-Square-162-S-2-3-200429 Lab Sample ID: 600-204524-6

Date Collected: 04/29/20 10:40 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5566 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 19:35	FLC	TAL SL
Total/NA	Prep	7471A			0.6962 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:31	LKP	TAL SL
Total/NA	Prep	9012B			0.496 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:25	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:38	AML	TAL HOU

Client Sample ID: Cell25-Square-179-S-2-3-200429 Lab Sample ID: 600-204524-7

Date Collected: 04/29/20 11:08 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	10 mL	100 mL	294332	05/12/20 13:01	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.07 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Client Sample ID: Cell25-Square-179-S-2-3-200429 Lab Sample ID: 600-204524-7

Date Collected: 04/29/20 11:08 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 84.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.18 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 12:33	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 17:29	PXS	TAL HOU
Total/NA	Prep	5030B			9.36 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 10:37	WS1	TAL HOU
Total/NA	Prep	3546			15.01 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 21:40	RJV	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 19:53	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 20:51	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 20:51	W1N	TAL HOU
Total/NA	Prep	3050B			0.5115 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		2			469789	05/06/20 19:42	FLC	TAL SL
Total/NA	Prep	7471A			0.6562 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:33	LKP	TAL SL
Total/NA	Prep	9012B			0.502 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:27	AML	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell25-Square-179-S-2-3-200429

Lab Sample ID: 600-204524-7
Date Collected: 04/29/20 11:08
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:39	AML	TAL HOU

Client Sample ID: Cell25-Square-85-S-2-3-200429

Lab Sample ID: 600-204524-8
Date Collected: 04/29/20 11:39
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Client Sample ID: Cell25-Square-85-S-2-3-200429

Lab Sample ID: 600-204524-8
Date Collected: 04/29/20 11:39
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.87 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 12:55	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 18:42	PXS	TAL HOU
Total/NA	Prep	5030B			10.04 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 11:00	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 22:14	RJV	TAL HOU
Total/NA	Prep	3546			10.11 g	1.0 mL	294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294871	05/21/20 00:35	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 20:18	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 21:11	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 21:11	W1N	TAL HOU
Total/NA	Prep	3050B			0.5398 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 22:26	LKP	TAL SL
Total/NA	Prep	3050B			0.5398 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 19:48	FLC	TAL SL
Total/NA	Prep	7471A			0.6556 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:35	LKP	TAL SL
Total/NA	Prep	9012B			0.539 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:28	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:40	AML	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-167-S-2-3-200429 Lab Sample ID: 600-204524-9

Date Collected: 04/29/20 11:55 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.07 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Client Sample ID: Cell26-Square-167-S-2-3-200429 Lab Sample ID: 600-204524-9

Date Collected: 04/29/20 11:55 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 87.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.28 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 13:17	WS1	TAL HOU
Total/NA	Prep	3546			15.05 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 19:06	PXS	TAL HOU
Total/NA	Prep	5030B			10.30 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	5 mL	5 mL	293641	05/01/20 11:23	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 22:49	RJV	TAL HOU
Total/NA	Prep	3546			10.10 g	1.0 mL	294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294871	05/21/20 01:10	RJV	TAL HOU
Total/NA	Prep	3546			15.00 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 20:44	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 21:32	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 21:32	W1N	TAL HOU
Total/NA	Prep	3050B			0.5596 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 22:32	LKP	TAL SL
Total/NA	Prep	3050B			0.5596 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 19:55	FLC	TAL SL
Total/NA	Prep	7471A			0.6441 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:36	LKP	TAL SL
Total/NA	Prep	9012B			0.501 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:29	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.03 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:41	AML	TAL HOU

Client Sample ID: Cell26-Square-79-S-2-3-200429 Lab Sample ID: 600-204524-10

Date Collected: 04/29/20 12:22 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	10 mL	100 mL	294332	05/12/20 13:01	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-79-S-2-3-200429
Date Collected: 04/29/20 12:22
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.09 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Client Sample ID: Cell26-Square-79-S-2-3-200429
Date Collected: 04/29/20 12:22
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-10
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.72 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 13:39	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 19:30	PXS	TAL HOU
Total/NA	Prep	5030B			9.57 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 11:47	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 23:23	RJV	TAL HOU
Total/NA	Prep	3546			15.00 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 21:09	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 21:52	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 21:52	W1N	TAL HOU
Total/NA	Prep	3050B			0.5215 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		2			469789	05/06/20 20:02	FLC	TAL SL
Total/NA	Prep	7471A			0.6624 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:38	LKP	TAL SL
Total/NA	Prep	9012B			0.504 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:30	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.01 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:46	AML	TAL HOU

Client Sample ID: Cell26-Square-110-S-2-3-200429
Date Collected: 04/29/20 12:52
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.08 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-110-S-2-3-200429

Lab Sample ID: 600-204524-11
Date Collected: 04/29/20 12:52
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.79 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 14:02	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 19:54	PXS	TAL HOU
Total/NA	Prep	5030B			9.66 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 13:44	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 23:58	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	294110	05/08/20 08:12	FNC	TAL HOU
Total/NA	Analysis	8082		1			294210	05/11/20 21:35	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 23:34	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 23:34	W1N	TAL HOU
Total/NA	Prep	3050B			0.5296 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 22:46	LKP	TAL SL
Total/NA	Prep	3050B			0.5296 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 20:09	FLC	TAL SL
Total/NA	Prep	7471A			0.6657 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:40	LKP	TAL SL
Total/NA	Prep	9012B			0.514 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:31	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.01 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:47	AML	TAL HOU

Client Sample ID: Cell26-Square-169-S-2-3-200429

Lab Sample ID: 600-204524-12
Date Collected: 04/29/20 13:10
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294233	05/04/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294253	05/11/20 12:17	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU
Total/NA	Analysis	9045D		1	20.05 g	20 mL	293872	05/05/20 11:22	AAZ	TAL HOU

Client Sample ID: Cell26-Square-169-S-2-3-200429

Lab Sample ID: 600-204524-12
Date Collected: 04/29/20 13:10
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.86 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 14:24	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	294022	05/07/20 07:49	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			294132	05/08/20 20:18	PXS	TAL HOU

Lab Chronicle

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

Job ID: 600-204524-1

Client Sample ID: Cell26-Square-169-S-2-3-200429
Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204524-12
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.29 g	10 mL	293597	04/30/20 17:48	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 14:07	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/14/20 00:32	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	294361	05/13/20 04:56	SMB	TAL HOU
Total/NA	Analysis	8082		1			294394	05/13/20 13:03	JAL	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50 mL	294035	05/07/20 09:54	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/08/20 00:35	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50 mL	294035	05/07/20 09:54	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/08/20 00:35	W1N	TAL HOU
Total/NA	Prep	3050B			0.5164 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 22:52	LKP	TAL SL
Total/NA	Prep	3050B			0.5164 g	50 mL	469562	05/05/20 08:35	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 20:15	FLC	TAL SL
Total/NA	Prep	7471A			0.6339 g	100 mL	469577	05/05/20 10:23	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:42	LKP	TAL SL
Total/NA	Prep	9012B			0.510 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:33	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.03 g	50.0 mL	294336	05/12/20 13:33	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294355	05/12/20 19:48	AML	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	Oil Range Organics (C28-C35)
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432-288-0376	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Rush TAT			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
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=wastetoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	GRO (MOD) Copy Analytes	2540C-Calc-Level/Method	300_026PM_28D_300_026Prep	6A-2LL2-Radium-226 (MOD) Radium-226	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N					X	
Cell17-Square-37-S-2-3-200429	04/29/20	0845	G	Solid			X	X	X	X	X	X	X	X	X	2	
Cell17-Square-91-S-2-3-200429		0915		Solid			X	X	X	X	X	X	X	X	X	2	
Cell17-Square-129-S-2-3-200429		0946		Solid			X	X	X	X	X	X	X	X	X	2	
Cell17-Square-190-S-2-3-200429		1001		Solid			X	X	X	X	X	X	X	X	X	2	
Cell25-Square-187-S-2-3-200429		1018		Solid			X	X	X	X	X	X	X	X	X	2	
Cell25-Square-162-S-2-3-200429		1040		Solid			X	X	X	X	X	X	X	X	X	2	
Cell25-Square-179-S-2-3-200429		1108		Solid			X	X	X	X	X	X	X	X	X	2	
Cell25-Square-85-S-2-3-200429		1139		Solid			X	X	X	X	X	X	X	X	X	2	
Cell26-Square-167-S-2-3-200429		1155		Solid			X	X	X	X	X	X	X	X	X	2	
Cell26-Square-79-S-2-3-200429		1222		Solid			X	X	X	X	X	X	X	X	X	2	
Cell26-Square-110-S-2-3-200429	04/29/20	1252	G	Solid			X	X	X	X	X	X	X	X	X	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: 04/29/20 1436	Company ARCADIS	Received by:	Date/Time: 4-29-20 1704	Company
Relinquished by:	Date/Time: 4-29-20 1704	Company	Received by:	Date/Time: 4/30/20 1037	Company ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432 278 8076	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Rush TAT			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
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 (Wastewater, Sludge, Oil, Solid, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6010-(MOD) Cop Analytes	2540C-Calc-Total Method 2540D	300-0266M-28D 300-ORGFMS	EA_01_R-24-(MOD)(Red)					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N										
Col24-Square-168-S-2-3-20072	04/29/20	1310	G	Solid			X	X	X	X	X	X	X	X	X						1	
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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: 04/29/20 1443	Company: ARCADIS	Received by:	Date/Time: 4-29-20 1704	Company
Relinquished by:	Date/Time: 4-29-20 1704	Company	Received by:	Date/Time: 4/30/20 1037	Company: ESA
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

Loc: 204524

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 30 10:37

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☐YES ☒NO Number of Coolers Received:

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3538	Y / N	Y / N	1.9	678	-0.1	1.8
3870	Y / N	Y / N	1.2			1.1
4166	Y / N	Y / N	2.9			2.7
4008	Y / N	Y / N	5.7			5.6
3240	Y / N	Y / N	3.1			3.0
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☐YES	☐ NO

COMMENTS:

CM 4/30/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

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COVID-19 Contact Form

Employee Name: Cathy Ufer

Contact First Name	Contact Last Name	Date	Time In	Time Out	Contact Level	General Location/Room #
~~Cat~~		4/30/20				
Sandra					2	login
Eur.						
Fabio						
Phoenix						
John	Cady					
Keith					1	wetchem

Contact Level:

1. Casual Contact – This is considered passive contact.
   a. Passing through an area
   b. Employee A enters Login to retrieve samples therefore has casual contact with login staff.
2. Close Contact – Considered to be extended contact but not violating the social distancing threshold.
   a. Working in the same room or vicinity.
   b. Login staff have close contact with each other.
3. Compromised Contact – Violates the social distancing threshold for an extended period of time.
   a. Employees sharing the same workspace.

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COVID-19 Contact Form

Employee Name: **Phoenix Johnson**

Contact First Name	Contact Last Name	Date	Time In	Time Out	Contact Level	General Location/Room #
Cathy	Upton	4/27/2020	10:30	17:48	2	Login
Fransico	Reyes	4/27/2020			2	Login
Enrique	Contreras	4/27/2020			2	Login

Contact Level:

1. Casual Contact – This is considered passive contact.
   a. Passing through an area
   b. Employee A enters Login to retrieve samples therefore has casual contact with login staff.
2. Close Contact – Considered to be extended contact but not violating the social distancing threshold.
   a. Working in the same room or vicinity.
   b. Login staff have close contact with each other.
3. Compromised Contact – Violates the social distancing threshold for an extended period of time.
   a. Employees sharing the same workspace.

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sandra Jones	Date/Time: 5/1/20 1700	Company: ETA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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:
Sandra Jones	5/1/20 17:00	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: 01/16/2019

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sandra Jones	Date/Time: 5/1/20 17:00	Company: ETA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	1	
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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	Sandra Jones	5/1/20 17:00	ETA			
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
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Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44815.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wastewater, Sediment, Groundwater, 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:		X	X		X	
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/1/20 17:00	ETA	FE		
FE			Michaka Conning	5/2/2020 08:48	ETA STL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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
[signature]	5/11/20 17:00	ETA	FE		
FE			[signature]	5/12/2020 08:48	ETA SL
				5/12/2020	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/1/20 1700	ETA	FE		
2	FE			Micha Konvalinka	5/2/2020 08:48	ETA STL
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone 713-690-4444 Fax 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44515.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code							
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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
	5/1/20 17:00	ETA	FE		
Relinquished by: FE	Date/Time	Company	Received by: Mia Konichiga	5/2/2020 08:48	ETA SL
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: 10/10/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/5/20 17:00	ETA	FED EX		
2	FED EX					
3					5/6/2020 09:24	ETA STL
4						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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=wastefol, 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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Cinda Jones	5/5/20 17:00	ETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 0924	Company: ETA STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sandra Jones FED EX	Date/Time: 5/5/20 17:00	Company: ETA	Received by: FED EX	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 09:24	Company: ETA STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Caden Jones	5/5/20 17:00	ETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company:	Received by:	Date/Time: 5/6/2020 0924	Company: ETA STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/8/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	2	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sarah Jones	5/6/20 16:00	ETA	FED EX		
2	FED EX					
3					5/7/2020 0926	ETASTL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North	Due Date Requested: 5/8/2020			
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 #: 60012253			
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=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA STL
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fil_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	2	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	5/6/20 16:00	ETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: 5/7/2020 0920	Company: ETA SR
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44656.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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_RaDry_Grind (MOD) Radium-226/228	GA_01_R_RaFill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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	5/6/20 16:00	ETA	FED EX		
FED EX				5/7/2020 0920	ETA SIL

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: 600-204524-1

Login Number: 204524 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	1.8,1.1,2.8,5.6,3.0
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204524-1

Login Number: 204524
List Number: 2
Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis
List Creation: 05/04/20 02:51 PM

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204524-1

Login Number: 204524 **List Source: Eurofins TestAmerica, St. Louis**
List Number: 3 **List Creation: 05/04/20 03:06 PM**
Creator: Korrinhizer, Micha L

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

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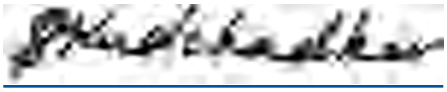
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204524-2
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:
6/17/2020 11:02:14 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS
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Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204524-2

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Case Narrative

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

Job ID: 600-204524-2

Job ID: 600-204524-2

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204524-2

The report was revised on 06/17/20 to to correct the sample ID for sample 600-204524-10 per the COC.

Receipt
The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 5 coolers at receipt time were 1.1°C, 1.8°C, 2.8°C, 3.0°C and 5.6°C

Gamma Spectroscopy
Method GA_01_R_Ra: Gamma Prep Batch 160-469934Any 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. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-22 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Cell17-Square-37-S-2-3-200429 (600-204524-1), Cell17-Square-91-S-2-3-200429 (600-204524-2), Cell17-Square-129-S-2-3-200429 (600-204524-3), Cell17-Square-190-S-2-3-200429 (600-204524-4), Cell25-Square-187-S-2-3-200429 (600-204524-5), Cell25-Square-162-S-2-3-200429 (600-204524-6), Cell25-Square-179-S-2-3-200429 (600-204524-7), Cell25-Square-85-S-2-3-200429 (600-204524-8), Cell26-Square-167-S-2-3-200429 (600-204524-9), Cell25-Square-79-S-2-3-200429 (600-204524-10), Cell26-Square-110-S-2-3-200429 (600-204524-11), Cell26-Square-169-S-2-3-200429 (600-204524-12), (LCS 160-469934/2-A), (MB 160-469934/1-A) and (600-204524-B-1-C DU)

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

Method Summary

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

Job ID: 600-204524-2

Method	Method Description	Protocol	Laboratory
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

Protocol References:

DOE = U.S. Department of Energy
None = None

Laboratory References:

TAL SL = Eurofins TestAmerica, 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: 600-204524-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204524-1	Cell17-Square-37-S-2-3-200429	Solid	04/29/20 08:48	04/30/20 10:37	
600-204524-2	Cell17-Square-91-S-2-3-200429	Solid	04/29/20 09:15	04/30/20 10:37	
600-204524-3	Cell17-Square-129-S-2-3-200429	Solid	04/29/20 09:46	04/30/20 10:37	
600-204524-4	Cell17-Square-190-S-2-3-200429	Solid	04/29/20 10:01	04/30/20 10:37	
600-204524-5	Cell25-Square-187-S-2-3-200429	Solid	04/29/20 10:18	04/30/20 10:37	
600-204524-6	Cell25-Square-162-S-2-3-200429	Solid	04/29/20 10:40	04/30/20 10:37	
600-204524-7	Cell25-Square-179-S-2-3-200429	Solid	04/29/20 11:08	04/30/20 10:37	
600-204524-8	Cell25-Square-85-S-2-3-200429	Solid	04/29/20 11:39	04/30/20 10:37	
600-204524-9	Cell26-Square-167-S-2-3-200429	Solid	04/29/20 11:55	04/30/20 10:37	
600-204524-10	Cell26-Square-79-S-2-3-200429	Solid	04/29/20 12:22	04/30/20 10:37	
600-204524-11	Cell26-Square-110-S-2-3-200429	Solid	04/29/20 12:52	04/30/20 10:37	
600-204524-12	Cell26-Square-169-S-2-3-200429	Solid	04/29/20 13:10	04/30/20 10:37	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell17-Square-37-S-2-3-200429 Lab Sample ID: 600-204524-1

Date Collected: 04/29/20 08:48 **Matrix: Solid**
Date Received: 04/30/20 10:37

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**		0.275	0.309	1.00	0.203	pCi/g	05/10/20 15:04	06/01/20 06:35	1
Radium-228	0.241	U	0.293	0.294		0.466	pCi/g	05/10/20 15:04	06/01/20 06:35	1
Combined Radium 226 + 228	**1.59**		0.402	0.427		0.466	pCi/g	05/10/20 15:04	06/01/20 06:35	1

Client Sample ID: Cell17-Square-91-S-2-3-200429 Lab Sample ID: 600-204524-2

Date Collected: 04/29/20 09:15 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.998**		0.215	0.238	1.00	0.162	pCi/g	05/10/20 15:04	05/31/20 14:56	1
Radium-228	0.129	U	0.252	0.252		0.363	pCi/g	05/10/20 15:04	05/31/20 14:56	1
Combined Radium 226 + 228	**1.13**		0.331	0.347		0.363	pCi/g	05/10/20 15:04	05/31/20 14:56	1

Client Sample ID: Cell17-Square-129-S-2-3-200429 Lab Sample ID: 600-204524-3

Date Collected: 04/29/20 09:46 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.05**		0.238	0.261	1.00	0.197	pCi/g	05/10/20 15:04	05/31/20 22:05	1
Radium-228	0.0370	U	0.0861	0.0862		0.505	pCi/g	05/10/20 15:04	05/31/20 22:05	1
Combined Radium 226 + 228	**1.09**		0.253	0.275		0.505	pCi/g	05/10/20 15:04	05/31/20 22:05	1

Client Sample ID: Cell17-Square-190-S-2-3-200429 Lab Sample ID: 600-204524-4

Date Collected: 04/29/20 10:01 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.31**		0.223	0.261	1.00	0.131	pCi/g	05/10/20 15:04	05/31/20 22:06	1
Radium-228	0.229	U	0.229	0.231		0.250	pCi/g	05/10/20 15:04	05/31/20 22:06	1
Combined Radium 226 + 228	**1.54**		0.320	0.349		0.250	pCi/g	05/10/20 15:04	05/31/20 22:06	1

Client Sample Results

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

Job ID: 600-204524-2

Client Sample ID: Cell25-Square-187-S-2-3-200429

Lab Sample ID: 600-204524-5
Matrix: Solid
Date Collected: 04/29/20 10:18
Date Received: 04/30/20 10:37

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	**0.334**		0.116	0.121	1.00	0.120	pCi/g	05/10/20 15:04	05/31/20 22:08	1
Radium-228	**0.613**		0.202	0.211		0.327	pCi/g	05/10/20 15:04	05/31/20 22:08	1
Combined Radium 226 + 228	**0.947**		0.233	0.243		0.327	pCi/g	05/10/20 15:04	05/31/20 22:08	1

Client Sample ID: Cell25-Square-162-S-2-3-200429

Lab Sample ID: 600-204524-6
Matrix: Solid
Date Collected: 04/29/20 10:40
Date Received: 04/30/20 10:37

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	0.0287	U	0.124	0.124	1.00	0.407	pCi/g	05/10/20 15:04	05/31/20 22:07	1
Radium-228	0.299	U	0.105	0.110		0.446	pCi/g	05/10/20 15:04	05/31/20 22:07	1
Combined Radium 226 + 228	0.327	U	0.162	0.166		0.446	pCi/g	05/10/20 15:04	05/31/20 22:07	1

Client Sample ID: Cell25-Square-179-S-2-3-200429

Lab Sample ID: 600-204524-7
Matrix: Solid
Date Collected: 04/29/20 11:08
Date Received: 04/30/20 10:37

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	**0.515**		0.136	0.146	1.00	0.112	pCi/g	05/10/20 15:04	05/31/20 22:43	1
Radium-228	**0.611**		0.237	0.244		0.191	pCi/g	05/10/20 15:04	05/31/20 22:43	1
Combined Radium 226 + 228	**1.13**		0.273	0.284		0.191	pCi/g	05/10/20 15:04	05/31/20 22:43	1

Client Sample ID: Cell25-Square-85-S-2-3-200429

Lab Sample ID: 600-204524-8
Matrix: Solid
Date Collected: 04/29/20 11:39
Date Received: 04/30/20 10:37

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	**1.34**		0.230	0.269	1.00	0.153	pCi/g	05/10/20 15:04	05/31/20 22:44	1
Radium-228	0.0895	U	0.297	0.297		0.380	pCi/g	05/10/20 15:04	05/31/20 22:44	1
Combined Radium 226 + 228	**1.42**		0.376	0.401		0.380	pCi/g	05/10/20 15:04	05/31/20 22:44	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204524-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-167-S-2-3-200429 Lab Sample ID: 600-204524-9

Date Collected: 04/29/20 11:55 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.899**		0.212	0.231	1.00	0.170	pCi/g	05/10/20 15:04	05/31/20 22:45	1
Radium-228	0.135	U	0.254	0.254		0.310	pCi/g	05/10/20 15:04	05/31/20 22:45	1
Combined Radium 226 + 228	**1.03**		0.331	0.343		0.310	pCi/g	05/10/20 15:04	05/31/20 22:45	1

Client Sample ID: Cell26-Square-79-S-2-3-200429 Lab Sample ID: 600-204524-10

Date Collected: 04/29/20 12:22 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.438**		0.124	0.132	1.00	0.112	pCi/g	05/10/20 15:04	05/31/20 22:46	1
Radium-228	**0.382**		0.185	0.189		0.283	pCi/g	05/10/20 15:04	05/31/20 22:46	1
Combined Radium 226 + 228	**0.820**		0.223	0.231		0.283	pCi/g	05/10/20 15:04	05/31/20 22:46	1

Client Sample ID: Cell26-Square-110-S-2-3-200429 Lab Sample ID: 600-204524-11

Date Collected: 04/29/20 12:52 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.50**		0.260	0.303	1.00	0.161	pCi/g	05/10/20 15:04	05/31/20 22:45	1
Radium-228	0.0661	U	0.409	0.409		0.502	pCi/g	05/10/20 15:04	05/31/20 22:45	1
Combined Radium 226 + 228	**1.56**		0.485	0.509		0.502	pCi/g	05/10/20 15:04	05/31/20 22:45	1

Client Sample ID: Cell26-Square-169-S-2-3-200429 Lab Sample ID: 600-204524-12

Date Collected: 04/29/20 13:10 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.15**		0.200	0.231	1.00	0.110	pCi/g	05/10/20 15:08	05/31/20 23:14	1
Radium-228	0.117	U	0.297	0.298		0.346	pCi/g	05/10/20 15:08	05/31/20 23:14	1
Combined Radium 226 + 228	**1.27**		0.358	0.377		0.346	pCi/g	05/10/20 15:08	05/31/20 23:14	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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)
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

QC Sample Results

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

Job ID: 600-204524-2

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-469934/1-A
Matrix: Solid
Analysis Batch: 471582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469934

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06592	U	0.133	0.133	1.00	0.370	pCi/g	05/10/20 15:04	05/31/20 14:24	1
Radium-228	-0.1211	U	0.358	0.358		0.419	pCi/g	05/10/20 15:04	05/31/20 14:24	1
Combined Radium 226 + 228	-0.1870	U	0.382	0.382		0.419	pCi/g	05/10/20 15:04	05/31/20 14:24	1

Lab Sample ID: LCS 160-469934/2-A
Matrix: Solid
Analysis Batch: 471575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469934

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	98.06		10.3		1.31	pCi/g	102	87 - 116
Cesium-137	27.1	26.90		2.91		0.237	pCi/g	99	87 - 120
Cobalt-60	10.2	10.12		1.09		0.0587	pCi/g	100	87 - 115

Lab Sample ID: 600-204524-1 DU
Matrix: Solid
Analysis Batch: 471581

Client Sample ID: Cell17-Square-37-S-2-3-200429
Prep Type: Total/NA
Prep Batch: 469934

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	1.35		1.322		0.261	1.00	0.140	pCi/g	0.05	1
Radium-228	0.241	U	0.05383	U	0.147		0.425	pCi/g	0.42	1
Combined Radium 226 + 228	1.59		1.375		0.300		0.425	pCi/g	0.30	1

QC Association Summary

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

Job ID: 600-204524-2

Rad

Leach Batch: 469758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	Dry and Grind	
600-204524-1 DU	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	Dry and Grind	

Prep Batch: 469934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204524-1	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-2	Cell17-Square-91-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-3	Cell17-Square-129-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-4	Cell17-Square-190-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-5	Cell25-Square-187-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-6	Cell25-Square-162-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-7	Cell25-Square-179-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-8	Cell25-Square-85-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-9	Cell26-Square-167-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-10	Cell26-Square-79-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-11	Cell26-Square-110-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
600-204524-12	Cell26-Square-169-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758
MB 160-469934/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-469934/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-204524-1 DU	Cell17-Square-37-S-2-3-200429	Total/NA	Solid	Fill_Geo-21	469758

Lab Chronicle

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

Job ID: 600-204524-2

Client Sample ID: Cell17-Square-37-S-2-3-200429 — Lab Sample ID: 600-204524-1

Date Collected: 04/29/20 08:48 — **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			297.6 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471602	06/01/20 06:35	KLS	TAL SL

Client Sample ID: Cell17-Square-91-S-2-3-200429 — Lab Sample ID: 600-204524-2

Date Collected: 04/29/20 09:15 — **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			282.7 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 14:56	KLS	TAL SL

Client Sample ID: Cell17-Square-129-S-2-3-200429 — Lab Sample ID: 600-204524-3

Date Collected: 04/29/20 09:46 — **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			285.4 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471599	05/31/20 22:05	KLS	TAL SL

Client Sample ID: Cell17-Square-190-S-2-3-200429 — Lab Sample ID: 600-204524-4

Date Collected: 04/29/20 10:01 — **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			308.2 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 22:06	KLS	TAL SL

Client Sample ID: Cell25-Square-187-S-2-3-200429 — Lab Sample ID: 600-204524-5

Date Collected: 04/29/20 10:18 — **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			352.1 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471583	05/31/20 22:08	AJD	TAL SL

Lab Chronicle

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

Job ID: 600-204524-2

Client Sample ID: Cell25-Square-162-S-2-3-200429
Lab Sample ID: 600-204524-6
Date Collected: 04/29/20 10:40
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			352.2 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471575	05/31/20 22:07	KLS	TAL SL

Client Sample ID: Cell25-Square-179-S-2-3-200429
Lab Sample ID: 600-204524-7
Date Collected: 04/29/20 11:08
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			351 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471599	05/31/20 22:43	KLS	TAL SL

Client Sample ID: Cell25-Square-85-S-2-3-200429
Lab Sample ID: 600-204524-8
Date Collected: 04/29/20 11:39
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			300.1 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471581	05/31/20 22:44	AJD	TAL SL

Client Sample ID: Cell26-Square-167-S-2-3-200429
Lab Sample ID: 600-204524-9
Date Collected: 04/29/20 11:55
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			330.5 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 22:45	KLS	TAL SL

Client Sample ID: Cell26-Square-79-S-2-3-200429
Lab Sample ID: 600-204524-10
Date Collected: 04/29/20 12:22
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			368 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471583	05/31/20 22:46	AJD	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204524-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell26-Square-110-S-2-3-200429
Lab Sample ID: 600-204524-11
Date Collected: 04/29/20 12:52
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			312.7 g	1.0 g	469934	05/10/20 15:04	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471575	05/31/20 22:45	KLS	TAL SL

Client Sample ID: Cell26-Square-169-S-2-3-200429
Lab Sample ID: 600-204524-12
Date Collected: 04/29/20 13:10
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			306 g	1.0 g	469934	05/10/20 15:08	MMO	TAL SL
Total/NA	Analysis	GA-01-R		1			471599	05/31/20 23:14	KLS	TAL SL

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204524-2
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432-288-0376	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Rush TAT			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
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)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6020 (MOD) Copy Analytes	2540C-Calc-Level/Method	9012B 300-026FM-7D; 300-026FM-8	6A-21L2-Radium-226 (MOD) Radium-226					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N										
Cell17-Square-37-S-2-3-200429	04/29/20	0848	G	Solid			X	X	X	X	X	X	X	X	X					3	
Cell17-Square-81-S-2-3-200429		0915		Solid			X	X	X	X	X	X	X	X	X					3	
Cell17-Square-129-S-2-3-200429		0946		Solid			X	X	X	X	X	X	X	X	X					3	
Cell17-Square-190-S-2-3-200429		1001		Solid			X	X	X	X	X	X	X	X	X					3	
Cell25-Square-187-S-2-3-200429		1018		Solid			X	X	X	X	X	X	X	X	X					3	
Cell25-Square-162-S-2-3-200429		1040		Solid			X	X	X	X	X	X	X	X	X					3	
Cell25-Square-179-S-2-3-200429		1108		Solid			X	X	X	X	X	X	X	X	X					3	
Cell25-Square-85-S-2-3-200429		1139		Solid			X	X	X	X	X	X	X	X	X					3	
Cell26-Square-167-S-2-3-200429		1155		Solid			X	X	X	X	X	X	X	X	X					3	
Cell26-Square-79-S-2-3-200429		1222		Solid			X	X	X	X	X	X	X	X	X					3	
Cell26-Square-110-S-2-3-200429	04/29/20	1252	G	Solid			X	X	X	X	X	X	X	X	X					3	

600-204524 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		04/29/20 1436	ARCADIS		5-4-29-20 1704	
2	Relinquished by:	Date/Time: 4-29-20 1704	Company	Received by:	Date/Time: 4/30/20 1037	Company ETA
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:

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longacre	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432 288 0876	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Rush TAT			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732			
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 (Wastewater, Sewage, Groundwater, Drinking Water, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6010-(MOD) Copy Analytes	2540C-Calc-Total Method 2540D	300-0266M-28D, 300-ORGFMS	EA_01_R-24-(MOD)(Rad)					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N									
Col 24 Square-168-5-2-3-200429	04/29/20	1310	G	Solid			X	X	X	X	X	X	X	X	X					9	
				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. Longacre	04/29/20 1443	ARCADIS		4-29-20 1704	
2		4-29-20 1704			4/30/20 1037	EHA
3						

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

Cooler Temperature(s) °C and Other Remarks:

Loc: 204524

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 30 10:37

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☐YES ☒NO Number of Coolers Received:

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3538	Y / N	Y / N	1.9	678	-0.1	1.8
3870	Y / N	Y / N	1.2			1.1
4166	Y / N	Y / N	2.9			2.7
4008	Y / N	Y / N	5.7			5.6
3240	Y / N	Y / N	3.1			3.0
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☐YES	☐ NO

COMMENTS:

CM 4/30/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

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COVID-19 Contact Form

Employee Name: Cathy Ufer

Contact First Name	Contact Last Name	Date	Time In	Time Out	Contact Level	General Location/Room #
~~Cat~~		4/30/20				
Sandra					2	login
Eur.						
Fabio						
Phoenix						
John	Cady					
Keith					1	wetchem

Contact Level:

1. Casual Contact – This is considered passive contact.
   a. Passing through an area
   b. Employee A enters Login to retrieve samples therefore has casual contact with login staff.
2. Close Contact – Considered to be extended contact but not violating the social distancing threshold.
   a. Working in the same room or vicinity.
   b. Login staff have close contact with each other.
3. Compromised Contact – Violates the social distancing threshold for an extended period of time.
   a. Employees sharing the same workspace.

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COVID-19 Contact Form

Employee Name: **Phoenix Johnson**

Contact First Name	Contact Last Name	Date	Time In	Time Out	Contact Level	General Location/Room #
Cathy	Upton	4/27/2020	10:30	17:48	2	Login
Fransico	Reyes	4/27/2020			2	Login
Enrique	Contreras	4/27/2020			2	Login

Contact Level:

1. Casual Contact – This is considered passive contact.
   a. Passing through an area
   b. Employee A enters Login to retrieve samples therefore has casual contact with login staff.
2. Close Contact – Considered to be extended contact but not violating the social distancing threshold.
   a. Working in the same room or vicinity.
   b. Login staff have close contact with each other.
3. Compromised Contact – Violates the social distancing threshold for an extended period of time.
   a. Employees sharing the same workspace.

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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:
Sandra Jones	5/1/20 1700	EA			
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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:
Sandra Jones	5/1/20 17:00	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: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sandra Jones	Date/Time: 5/1/20 17:00	Company: ETA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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	Sandra Jones	5/1/20 17:00	ETA			
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44815.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wastewater, Sediment, Groundwater, 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:		X	X		X	
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/1/20 17:00	ETA	FE		
FE			Michaka Conning	5/2/2020 08:48	ETA STL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/11/20 17:00	ETA	FE		
FE			[signature]	5/12/2020 08:48	ETA SL
				5/12/2020	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	1	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/1/20 1700	ETA	FE		
2	FE			Michaka Cunningham	5/2/2020 08:48	ETA STL
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 07/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone 713-690-4444 Fax 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 600-44515.2
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code							
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/1/20 17:00	ETA	FE		
FE			[signature]	5/2/2020 08:48	ETA SL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks

Ver: 10/10/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/5/20 17:00	ETA	FED EX		
2	FED EX					
3					5/6/2020 09:24	ETA STL
4						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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=wastefol, 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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

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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
Cinda Jones	5/5/20 17:00	ETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 0924	Company: ETA STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

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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	Sandra Jones FED EX	5/5/20 17:00	ETA	FED EX		
2	Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 09:24	Company: ETA STL
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:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)
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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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-37-S-2-3-200429 (600-204524-1)	4/29/20	08:48 Central		Solid			X	X	1	

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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: Landon Jones	5/5/20 17:00	ETA	Received by: FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 0924	Company: ETA STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/8/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	2	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0926	ETASTL
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
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Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-1
Address: 13715 Rider Trail North	Due Date Requested: 5/8/2020			
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 #: 60012253			
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=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA STL
3						

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: 5/23/2022 10:59:25 AM

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6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fil_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell17-Square-91-S-2-3-200429 (600-204524-2)	4/29/20	09:15 Central		Solid			X	X	1	
Cell17-Square-129-S-2-3-200429 (600-204524-3)	4/29/20	09:46 Central		Solid			X	X	1	
Cell17-Square-190-S-2-3-200429 (600-204524-4)	4/29/20	10:01 Central		Solid			X	X	1	
Cell25-Square-187-S-2-3-200429 (600-204524-5)	4/29/20	10:18 Central		Solid			X	X	1	
Cell25-Square-162-S-2-3-200429 (600-204524-6)	4/29/20	10:40 Central		Solid			X	X	1	
Cell25-Square-179-S-2-3-200429 (600-204524-7)	4/29/20	11:08 Central		Solid			X	X	1	
Cell25-Square-85-S-2-3-200429 (600-204524-8)	4/29/20	11:39 Central		Solid			X	X	2	
Cell26-Square-167-S-2-3-200429 (600-204524-9)	4/29/20	11:55 Central		Solid			X	X	1	
Cell25-Square-79-S-2-3-200429 (600-204524-10)	4/29/20	12:22 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	5/6/20 16:00	ETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: [signature]	Date/Time: 5/7/2020 0920	Company: ETA SR
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44656.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204524-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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_RaDry_Grind (MOD) Radium-226/228	GA_01_R_RaFill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell26-Square-110-S-2-3-200429 (600-204524-11)	4/29/20	12:52 Central		Solid			X	X	1	
Cell26-Square-169-S-2-3-200429 (600-204524-12)	4/29/20	13:10 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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	Sachin Jaw	5/6/20 16:00	ETA	FED EX		
2	FED EX				5/7/2020 0920	ETA SIL
3						

Custody Seals Intact: ☐ Yes ☐ 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: 600-204524-2

Login Number: 204524 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	1.8,1.1,2.8,5.6,3.0
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204524-2

Login Number: 204524 **List Source: Eurofins TestAmerica, St. Louis**
List Number: 2 **List Creation: 05/04/20 02:51 PM**
Creator: Korrinhizer, Micha L

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204524-2

Login Number: 204524 **List Source: Eurofins TestAmerica, St. Louis**
List Number: 3 **List Creation: 05/04/20 03:06 PM**
Creator: Korrinhizer, Micha L

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

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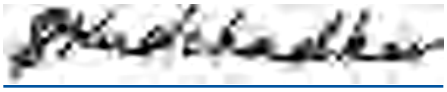
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204530-1
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:
5/26/2020 1:28:32 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204530-1

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Case Narrative

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

Job ID: 600-204530-1

Job ID: 600-204530-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204530-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 4/30/2020. The report (revision 1) is being revised due to: sample ID corrected per the chain of custody for : Cell18-Square-202-S-2-3-200428..

Receipt
The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3º C, 2.7º C, 3.4º C and 5.3º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-293639 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 600-293726 contained Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260B: The method blank for analytical batch 600-293639 contained Methylene chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA
Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-293891 recovered above the upper control limit for Fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-293891/2).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-293845 and analytical batch 600-293891 was outside control limits. Sample matrix interference is suspected.

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.

Metals
Method 6020: preparation batch 160-469570 and analytical batch 160-469693
The following samples were diluted due to the abundance of non-target analytes: Cell19-Square-93-S-2-3-200428 (600-204530-2), Cell19-Square-154-S-2-3-200428 (600-204530-3), Cell18-Square-55-S-2-3-200428 (600-204530-4), Cell18-Square-35-S-2-3-200428 (600-204530-5), Cell18-Square-59-S-2-3-200428 (600-204530-6), Cell18-Square-202-S-2-3-200428 (600-204530-7), Cell21-Square-14-S-2-3-200428 (600-204530-8), Cell21-Square-76-S-2-3-200428 (600-204530-9), Cell21-Square-155-S-2-3-200428

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-204530-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

(600-204530-10) and Cell21-Square-47-S-2-3-200428 (600-204530-11). Elevated reporting limits (RLs) are provided.

Method 6020: The initial calibration verification (ICV) result for batch 160-469789 was above the upper control limit for Antimony. Sample results were below the reporting limit, and have been reported as qualified data. (ICV 160-469789/5)

Method 6020: analytical batch 160-469789
The internal standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported.

(CCV 160-469789/25) and (CCV 160-469789/38)

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-469570 and analytical batch 160-469789 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-204530-C-1-B MS) and (600-204530-C-1-C MSD)

Method 6020: Due to the high concentration of Iron, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-469570 and analytical batch 160-469789 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-204530-C-1-B MS) and (600-204530-C-1-C MSD)

Method 6020: preparation batch 160-469570 and analytical batch 160-469789
The internal standard in the MSD was outside control limits for Sc. The original sample, performed at the same dilution as the batch QC, yielded acceptable internal standard recovery. Additionally the MSD recovered within its acceptable QC limits. This indicates an anomaly which had no adverse effect on the performance of the batch QC. Original results will be reported. (600-204530-C-1-C MSD)

Method 6020: preparation batch 160-469570 and analytical batch 160-469789
The post digestion spike % recovery for Barium, Iron and Antimony was outside of control limits indicating a potential matrix interference. (600-204530-C-1-A PDS)

Method 6020: preparation batch 160-469570 and analytical batch 160-469789
Due to linear range check (LRC) failures, the linear range for Arsenic has been lowered to the concentration of the highest calibration standard (200ppb). The MS/MSD were above the linear range, but were within acceptable recovery limits.

(600-204530-C-1-B MS) and (600-204530-C-1-C MSD)

Method 6020: preparation batch 160-469570 and analytical batch 160-469789
The following samples were diluted due to the abundance of non-target analytes: Cell18-Square-55-S-2-3-200428 (600-204530-4), Cell18-Square-35-S-2-3-200428 (600-204530-5), Cell18-Square-59-S-2-3-200428 (600-204530-6), Cell18-Square-202-S-2-3-200428 (600-204530-7), Cell21-Square-14-S-2-3-200428 (600-204530-8), Cell21-Square-76-S-2-3-200428 (600-204530-9), Cell21-Square-155-S-2-3-200428 (600-204530-10) and Cell21-Square-47-S-2-3-200428 (600-204530-11). Elevated reporting limits (RLs) are provided.

Method 6020: The serial dilution performed for the following sample associated with batch 160-469789 was outside control limits for barium: (600-204530-C-1-A SD)

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-293968 and analytical batch 600-293998 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 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-294035 and analytical batch 600-294024 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.

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-204530-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-294035 and analytical batch 600-294024 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

(600-204530-A-11-A MS) and (600-204530-A-11-A MSD)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-294035 and analytical batch 600-294025 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 300.0: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-294035 and analytical batch 600-294025 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

(600-204530-A-11-A MS)

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

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

Organic Prep
Method 3546: Samples have been put in solvent just in case they in to be re extracted due to low surr.

Cell19-Square-23-S-2-3-200428 (600-204530-1), Cell19-Square-93-S-2-3-200428 (600-204530-2), Cell19-Square-154-S-2-3-200428 (600-204530-3), Cell18-Square-55-S-2-3-200428 (600-204530-4), Cell18-Square-35-S-2-3-200428 (600-204530-5), Cell18-Square-59-S-2-3-200428 (600-204530-6), Cell18-Square-202-S-2-3-200428 (600-204530-7), Cell21-Square-14-S-2-3-200428 (600-204530-8), Cell21-Square-76-S-2-3-200428 (600-204530-9), Cell21-Square-155-S-2-3-200428 (600-204530-10), Cell21-Square-47-S-2-3-200428 (600-204530-11) and (600-204530-G-1 MS)

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

Method Summary

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

Job ID: 600-204530-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
6020	Metals (ICP/MS)	SW846	TAL SL
7471A	Mercury (CVAA)	SW846	TAL SL
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
7471A	Preparation, Mercury	SW846	TAL SL
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU

Protocol References:

ASTM = ASTM International
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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL SL = Eurofins TestAmerica, 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: 600-204530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204530-1	Cell19-Square-23-S-2-3-200428	Solid	04/28/20 09:29	04/30/20 10:37	
600-204530-2	Cell19-Square-93-S-2-3-200428	Solid	04/28/20 09:48	04/30/20 10:37	
600-204530-3	Cell19-Square-154-S-2-3-200428	Solid	04/28/20 10:15	04/30/20 10:37	
600-204530-4	Cell18-Square-55-S-2-3-200428	Solid	04/28/20 10:56	04/30/20 10:37	
600-204530-5	Cell18-Square-35-S-2-3-200428	Solid	04/28/20 11:17	04/30/20 10:37	
600-204530-6	Cell18-Square-59-S-2-3-200428	Solid	04/28/20 11:47	04/30/20 10:37	
600-204530-7	Cell18-Square-202-S-2-3-200428	Solid	04/28/20 12:12	04/30/20 10:37	
600-204530-8	Cell21-Square-14-S-2-3-200428	Solid	04/28/20 12:50	04/30/20 10:37	
600-204530-9	Cell21-Square-76-S-2-3-200428	Solid	04/28/20 13:12	04/30/20 10:37	
600-204530-10	Cell21-Square-155-S-2-3-200428	Solid	04/28/20 13:39	04/30/20 10:37	
600-204530-11	Cell21-Square-47-S-2-3-200428	Solid	04/28/20 14:05	04/30/20 10:37	

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-23-S-2-3-200428

Date Collected: 04/28/20 09:29
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-1

Matrix: Solid
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00112	U	0.0125	0.00112	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,1-Dichloroethene	0.00152	U	0.00624	0.00152	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
trans-1,2-Dichloroethene	0.00142	U	0.00624	0.00142	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Methyl tert-butyl ether	0.00229	U	0.00624	0.00229	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Methylene Chloride	**0.00766**	**J b**	0.0125	0.00274	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
cis-1,2-Dichloroethene	0.00104	U	0.00624	0.00104	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Carbon tetrachloride	0.00141	U	0.00624	0.00141	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Benzene	0.000787	U	0.00624	0.000787	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,2-Dichloroethane	0.00112	U	0.00624	0.00112	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Trichloroethene	0.00175	U	0.00624	0.00175	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,1,1-Trichloroethane	0.000924	U	0.00624	0.000924	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,1-Dichloroethane	0.00109	U	0.00624	0.00109	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,2-Dichloropropane	0.000887	U	0.00624	0.000887	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Chloroform	0.000824	U	0.0125	0.000824	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Toluene	0.00172	U	0.00624	0.00172	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,1,2-Trichloroethane	0.000912	U	0.00624	0.000912	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Tetrachloroethene	0.000887	U	0.00624	0.000887	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,2-Dibromoethane	0.00127	U	0.00624	0.00127	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Ethylbenzene	0.00127	U	0.00624	0.00127	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Xylenes, Total	0.00141	U	0.00624	0.00141	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
Styrene	0.000887	U	0.00624	0.000887	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,1,2,2-Tetrachloroethane	0.00109	U	0.00624	0.00109	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,4-Dichlorobenzene	0.000824	U	0.00624	0.000824	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,2-Dichlorobenzene	0.000999	U	0.00624	0.000999	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1
1,2,4-Trichlorobenzene	0.00246	U	0.00624	0.00246	mg/Kg	☼	05/02/20 12:46	05/02/20 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*05/02/20 12:46*	*05/02/20 14:00*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*05/02/20 12:46*	*05/02/20 14:00*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*05/02/20 12:46*	*05/02/20 14:00*	*1*
4-Bromofluorobenzene	*112*		*57 - 140*	*05/02/20 12:46*	*05/02/20 14:00*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.00624**	**J**	0.0439	0.00132	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Anthracene	0.00169	U	0.0439	0.00169	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Benzo[a]anthracene	0.00182	U	0.0439	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Benzo[b]fluoranthene	0.00227	U	0.0439	0.00227	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Benzo[k]fluoranthene	0.00196	U	0.0439	0.00196	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Benzo[g,h,i]perylene	0.00668	U	0.0439	0.00668	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Benzo[a]pyrene	0.00212	U	0.0439	0.00212	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Chrysene	0.00134	U	0.0439	0.00134	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Dibenz(a,h)anthracene	0.00478	U	0.0439	0.00478	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Fluoranthene	0.00410	U	0.0439	0.00410	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Fluorene	**0.0286**	**J**	0.0439	0.00311	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Indeno[1,2,3-cd]pyrene	0.00461	U	0.0439	0.00461	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
2-Methylnaphthalene	**0.295**		0.0439	0.00361	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Phenanthrene	**0.0559**		0.0439	0.00652	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Pyrene	0.00241	U	0.0439	0.00241	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
1-Methylnaphthalene	**0.196**		0.0439	0.00207	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-23-S-2-3-200428
Date Collected: 04/28/20 09:29
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-1
Matrix: Solid
Percent Solids: 75.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.0555**		0.0439	0.00178	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Acenaphthene	0.00190	U	0.0439	0.00190	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Atrazine	0.00662	U	0.0439	0.00662	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1
Pentachlorophenol	0.00527	U	0.220	0.00527	mg/Kg	☼	05/05/20 08:03	05/06/20 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*38 - 130*	*05/05/20 08:03*	*05/06/20 11:19*	*1*
Nitrobenzene-d5	*34*		*10 - 155*	*05/05/20 08:03*	*05/06/20 11:19*	*1*
Terphenyl-d14	*99*		*53 - 134*	*05/05/20 08:03*	*05/06/20 11:19*	*1*
2-Fluorophenol	*83*		*25 - 132*	*05/05/20 08:03*	*05/06/20 11:19*	*1*
2,4,6-Tribromophenol	*90*		*10 - 148*	*05/05/20 08:03*	*05/06/20 11:19*	*1*
Phenol-d5 (Surr)	*68*		*27 - 130*	*05/05/20 08:03*	*05/06/20 11:19*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.762	U	1.30	0.762	mg/Kg	☼	05/01/20 07:56	05/01/20 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 07:56*	*05/01/20 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.22**		6.61	2.26	mg/Kg	☼	05/05/20 12:09	05/06/20 22:38	1
Oil Range Organics (C28-C35)	**18.9**		6.61	6.61	mg/Kg	☼	05/05/20 12:09	05/06/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*45*	*X*	*60 - 140*	*05/05/20 12:09*	*05/06/20 22:38*	*1*
o-Terphenyl	*129*		*60 - 140*	*05/05/20 12:09*	*05/13/20 14:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.23**	**J**	5.30	0.707	mg/Kg	☼		05/07/20 04:42	1
Nitrate as N	**9.82**		2.65	0.332	mg/Kg	☼		05/07/20 04:42	1
Fluoride	**7.02**		2.65	0.796	mg/Kg	☼		05/07/20 04:42	1
Nitrite as N	0.393	U	2.65	0.393	mg/Kg	☼		05/07/20 04:42	1
Sulfate	**185**		6.62	1.27	mg/Kg	☼		05/07/20 04:42	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0956	U	0.255	0.0956	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Arsenic	**4.12**		1.27	0.510	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Barium	**84.3**		2.55	0.637	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Beryllium	**0.699**		0.127	0.0510	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Cadmium	**0.0543**	**J**	0.0637	0.0306	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Chromium	**8.68**		1.27	0.574	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Iron	**9850**		15.3	7.65	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Manganese	**73.6**		0.637	0.255	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Lead	**6.37**		0.382	0.159	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Antimony	0.255	U ^	0.637	0.255	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Selenium	**0.577**	**J**	0.637	0.408	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Thallium	0.255	U	0.637	0.255	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-23-S-2-3-200428

Lab Sample ID: 600-204530-1
Date Collected: 04/28/20 09:29
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	22.3		6.37	2.55	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Sodium	76.4		25.5	9.56	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2
Uranium	0.226		0.127	0.0510	mg/Kg	☼	05/05/20 08:48	05/06/20 20:22	2

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0135	U	0.0404	0.0135	mg/Kg	☼	05/05/20 11:45	05/06/20 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.5		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	75.5		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0300	J	0.161	0.0242	mg/Kg	☼	05/06/20 14:16	05/06/20 20:34	1
Phenols, Total	0.329	b	0.324	0.272	mg/Kg	☼	05/13/20 14:35	05/13/20 18:49	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	203		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell19-Square-93-S-2-3-200428

Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00116	U	0.0129	0.00116	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,1-Dichloroethene	0.00157	U	0.00645	0.00157	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
trans-1,2-Dichloroethene	0.00147	U	0.00645	0.00147	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Methyl tert-butyl ether	0.00236	U	0.00645	0.00236	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Methylene Chloride	0.00821	J b	0.0129	0.00282	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
cis-1,2-Dichloroethene	0.00107	U	0.00645	0.00107	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Carbon tetrachloride	0.00146	U	0.00645	0.00146	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Benzene	0.000812	U	0.00645	0.000812	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,2-Dichloroethane	0.00116	U	0.00645	0.00116	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Trichloroethene	0.00181	U	0.00645	0.00181	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,1,1-Trichloroethane	0.000954	U	0.00645	0.000954	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,1-Dichloroethane	0.00112	U	0.00645	0.00112	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,2-Dichloropropane	0.000916	U	0.00645	0.000916	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Chloroform	0.000851	U	0.0129	0.000851	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Toluene	0.00178	U	0.00645	0.00178	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,1,2-Trichloroethane	0.000941	U	0.00645	0.000941	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Tetrachloroethene	0.000916	U	0.00645	0.000916	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,2-Dibromoethane	0.00132	U	0.00645	0.00132	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Ethylbenzene	0.00132	U	0.00645	0.00132	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Xylenes, Total	0.00146	U	0.00645	0.00146	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
Styrene	0.000916	U	0.00645	0.000916	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,1,2,2-Tetrachloroethane	0.00112	U	0.00645	0.00112	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,4-Dichlorobenzene	0.000851	U	0.00645	0.000851	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,2-Dichlorobenzene	0.00103	U	0.00645	0.00103	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1
1,2,4-Trichlorobenzene	0.00254	U	0.00645	0.00254	mg/Kg	☼	05/02/20 12:46	05/02/20 14:23	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-93-S-2-3-200428

Date Collected: 04/28/20 09:48
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-2

Matrix: Solid
Percent Solids: 73.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130	05/02/20 12:46	05/02/20 14:23	1
Dibromofluoromethane	96		68 - 140	05/02/20 12:46	05/02/20 14:23	1
Toluene-d8 (Surr)	105		50 - 130	05/02/20 12:46	05/02/20 14:23	1
4-Bromofluorobenzene	111		57 - 140	05/02/20 12:46	05/02/20 14:23	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00136	U	0.0452	0.00136	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Anthracene	0.00174	U	0.0452	0.00174	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Benzo[a]anthracene	0.00187	U	0.0452	0.00187	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Benzo[b]fluoranthene	0.00233	U	0.0452	0.00233	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Benzo[k]fluoranthene	0.00202	U	0.0452	0.00202	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Benzo[g,h,i]perylene	0.00688	U	0.0452	0.00688	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Benzo[a]pyrene	0.00218	U	0.0452	0.00218	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Chrysene	0.00138	U	0.0452	0.00138	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Dibenz(a,h)anthracene	0.00492	U	0.0452	0.00492	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Fluoranthene	0.00422	U	0.0452	0.00422	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Fluorene	0.00320	U	0.0452	0.00320	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Indeno[1,2,3-cd]pyrene	0.00475	U	0.0452	0.00475	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
2-Methylnaphthalene	**0.00741**	**J**	0.0452	0.00372	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Phenanthrene	0.00672	U	0.0452	0.00672	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Pyrene	**0.00268**	**J**	0.0452	0.00248	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
1-Methylnaphthalene	**0.00398**	**J**	0.0452	0.00213	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Naphthalene	0.00183	U	0.0452	0.00183	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Acenaphthene	0.00195	U	0.0452	0.00195	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Atrazine	0.00681	U	0.0452	0.00681	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1
Pentachlorophenol	0.00543	U	0.227	0.00543	mg/Kg	☼	05/05/20 08:03	05/06/20 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		38 - 130	05/05/20 08:03	05/06/20 12:29	1
Nitrobenzene-d5	78		10 - 155	05/05/20 08:03	05/06/20 12:29	1
Terphenyl-d14	106		53 - 134	05/05/20 08:03	05/06/20 12:29	1
2-Fluorophenol	86		25 - 132	05/05/20 08:03	05/06/20 12:29	1
2,4,6-Tribromophenol	83		10 - 148	05/05/20 08:03	05/06/20 12:29	1
Phenol-d5 (Surr)	80		27 - 130	05/05/20 08:03	05/06/20 12:29	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.810	U	1.38	0.810	mg/Kg	☼	05/01/20 07:56	05/01/20 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene				05/01/20 07:56	05/01/20 14:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.24**	**J**	6.74	2.31	mg/Kg	☼	05/05/20 12:09	05/06/20 23:12	1
Oil Range Organics (C28-C35)	**17.8**		6.74	6.74	mg/Kg	☼	05/05/20 12:09	05/06/20 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56	X	60 - 140	05/05/20 12:09	05/06/20 23:12	1
o-Terphenyl	127		60 - 140	05/05/20 12:09	05/13/20 14:41	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-93-S-2-3-200428

Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 73.7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.30**		5.43	0.724	mg/Kg	☼		05/07/20 11:27	1
Nitrate as N	**8.94**		2.71	0.341	mg/Kg	☼		05/07/20 11:27	1
Fluoride	**8.39**		2.71	0.816	mg/Kg	☼		05/07/20 11:27	1
Nitrite as N	0.403	U	2.71	0.403	mg/Kg	☼		05/07/20 11:27	1
Sulfate	**147**		6.78	1.30	mg/Kg	☼		05/07/20 11:27	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.877	U	2.34	0.877	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Arsenic	4.68	U	11.7	4.68	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Barium	**111**		23.4	5.85	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Beryllium	0.468	U	1.17	0.468	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Cadmium	0.281	U	0.585	0.281	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Chromium	5.26	U	11.7	5.26	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Iron	**3960**		140	70.1	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Manganese	**87.4**		5.85	2.34	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Lead	**2.83**	**J**	3.51	1.46	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Antimony	2.34	U	5.85	2.34	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Selenium	3.74	U	5.85	3.74	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Thallium	2.34	U	5.85	2.34	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Zinc	23.4	U	58.5	23.4	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Sodium	87.7	U	234	87.7	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20
Uranium	0.468	U	1.17	0.468	mg/Kg	☼	05/05/20 08:48	05/05/20 18:51	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0133	U	0.0400	0.0133	mg/Kg	☼	05/05/20 11:45	05/06/20 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.3**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**73.7**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0217	U	0.145	0.0217	mg/Kg	☼	05/06/20 14:16	05/06/20 20:35	1
Phenols, Total	0.279	U	0.333	0.279	mg/Kg	☼	05/13/20 14:35	05/13/20 18:50	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**129**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell19-Square-154-S-2-3-200428

Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00109	U	0.0121	0.00109	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,1-Dichloroethene	0.00148	U	0.00605	0.00148	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
trans-1,2-Dichloroethene	0.00138	U	0.00605	0.00138	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Methyl tert-butyl ether	0.00221	U	0.00605	0.00221	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Methylene Chloride	**0.00862**	**J b**	0.0121	0.00265	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
cis-1,2-Dichloroethene	0.00100	U	0.00605	0.00100	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-154-S-2-3-200428 **Lab Sample ID: 600-204530-3**
Date Collected: 04/28/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 91.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00137	U	0.00605	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Benzene	0.000762	U	0.00605	0.000762	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,2-Dichloroethane	0.00109	U	0.00605	0.00109	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Trichloroethene	0.00169	U	0.00605	0.00169	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,1,1-Trichloroethane	0.000895	U	0.00605	0.000895	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,1-Dichloroethane	0.00105	U	0.00605	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,2-Dichloropropane	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Chloroform	0.000798	U	0.0121	0.000798	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Toluene	0.00167	U	0.00605	0.00167	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,1,2-Trichloroethane	0.000883	U	0.00605	0.000883	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Tetrachloroethene	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,2-Dibromoethane	0.00123	U	0.00605	0.00123	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Ethylbenzene	0.00123	U	0.00605	0.00123	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Xylenes, Total	0.00137	U	0.00605	0.00137	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
Styrene	0.000859	U	0.00605	0.000859	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,1,2,2-Tetrachloroethane	0.00105	U	0.00605	0.00105	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,4-Dichlorobenzene	0.000798	U	0.00605	0.000798	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,2-Dichlorobenzene	0.000968	U	0.00605	0.000968	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1
1,2,4-Trichlorobenzene	0.00238	U	0.00605	0.00238	mg/Kg	☼	04/30/20 17:13	05/01/20 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*	*04/30/20 17:13*	*05/01/20 15:31*	*1*
Dibromofluoromethane	*101*		*68 - 140*	*04/30/20 17:13*	*05/01/20 15:31*	*1*
Toluene-d8 (Surr)	*106*		*50 - 130*	*04/30/20 17:13*	*05/01/20 15:31*	*1*
4-Bromofluorobenzene	*112*		*57 - 140*	*04/30/20 17:13*	*05/01/20 15:31*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00109	U	0.0364	0.00109	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Anthracene	0.00140	U	0.0364	0.00140	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Benzo[a]anthracene	0.00151	U	0.0364	0.00151	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Benzo[b]fluoranthene	0.00188	U	0.0364	0.00188	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Benzo[k]fluoranthene	0.00163	U	0.0364	0.00163	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Benzo[g,h,i]perylene	0.00554	U	0.0364	0.00554	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Benzo[a]pyrene	0.00176	U	0.0364	0.00176	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Chrysene	0.00111	U	0.0364	0.00111	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Dibenz(a,h)anthracene	0.00396	U	0.0364	0.00396	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Fluoranthene	0.00340	U	0.0364	0.00340	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Fluorene	0.00258	U	0.0364	0.00258	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Indeno[1,2,3-cd]pyrene	0.00382	U	0.0364	0.00382	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
2-Methylnaphthalene	**0.00975**	**J**	0.0364	0.00299	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Phenanthrene	0.00541	U	0.0364	0.00541	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Pyrene	0.00200	U	0.0364	0.00200	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
1-Methylnaphthalene	**0.00801**	**J**	0.0364	0.00171	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Naphthalene	0.00147	U	0.0364	0.00147	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Acenaphthene	0.00157	U	0.0364	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Atrazine	0.00548	U	0.0364	0.00548	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1
Pentachlorophenol	0.00437	U	0.182	0.00437	mg/Kg	☼	05/05/20 08:03	05/06/20 12:53	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-154-S-2-3-200428

Date Collected: 04/28/20 10:15
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-3

Matrix: Solid
Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		38 - 130	05/05/20 08:03	05/06/20 12:53	1
Nitrobenzene-d5	77		10 - 155	05/05/20 08:03	05/06/20 12:53	1
Terphenyl-d14	102		53 - 134	05/05/20 08:03	05/06/20 12:53	1
2-Fluorophenol	91		25 - 132	05/05/20 08:03	05/06/20 12:53	1
2,4,6-Tribromophenol	96		10 - 148	05/05/20 08:03	05/06/20 12:53	1
Phenol-d5 (Surr)	80		27 - 130	05/05/20 08:03	05/06/20 12:53	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.611	U	1.04	0.611	mg/Kg	☼	05/01/20 07:56	05/01/20 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene				05/01/20 07:56	05/01/20 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.86	U	5.45	1.86	mg/Kg	☼	05/05/20 12:09	05/06/20 23:46	1
Oil Range Organics (C28-C35)	**14.1**		5.45	5.45	mg/Kg	☼	05/05/20 12:09	05/06/20 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		60 - 140	05/05/20 12:09	05/06/20 23:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.57**		4.38	0.585	mg/Kg	☼		05/07/20 12:28	1
Nitrate as N	**15.6**		2.19	0.275	mg/Kg	☼		05/07/20 12:28	1
Fluoride	**4.34**		2.19	0.659	mg/Kg	☼		05/07/20 12:28	1
Nitrite as N	0.325	U	2.19	0.325	mg/Kg	☼		05/07/20 12:28	1
Sulfate	**245**		5.48	1.05	mg/Kg	☼		05/07/20 12:28	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.784	U	2.09	0.784	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Arsenic	4.18	U	10.4	4.18	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Barium	**334**		20.9	5.22	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Beryllium	0.418	U	1.04	0.418	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Cadmium	0.251	U	0.522	0.251	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Chromium	4.70	U	10.4	4.70	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Iron	**1870**		125	62.7	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Manganese	**24.7**		5.22	2.09	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Lead	1.31	U	3.13	1.31	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Antimony	2.09	U	5.22	2.09	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Selenium	3.34	U	5.22	3.34	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Thallium	2.09	U	5.22	2.09	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Zinc	20.9	U	52.2	20.9	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Sodium	**128**	**J**	209	78.4	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20
Uranium	**0.531**	**J**	1.04	0.418	mg/Kg	☼	05/05/20 08:48	05/05/20 18:57	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0120**	**J**	0.0353	0.0118	mg/Kg	☼	05/05/20 11:45	05/06/20 11:57	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-154-S-2-3-200428

Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**91.3**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0172	U	0.115	0.0172	mg/Kg	☼	05/06/20 14:16	05/06/20 20:37	1
Phenols, Total	0.221	U	0.263	0.221	mg/Kg	☼	05/13/20 14:35	05/13/20 18:51	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**139**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell18-Square-55-S-2-3-200428

Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00111	U	0.0123	0.00111	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,1-Dichloroethene	0.00151	U	0.00617	0.00151	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
trans-1,2-Dichloroethene	0.00141	U	0.00617	0.00141	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Methyl tert-butyl ether	0.00226	U	0.00617	0.00226	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Methylene Chloride	0.00270	U	0.0123	0.00270	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
cis-1,2-Dichloroethene	0.00102	U	0.00617	0.00102	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Carbon tetrachloride	0.00140	U	0.00617	0.00140	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Benzene	0.000778	U	0.00617	0.000778	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,2-Dichloroethane	0.00111	U	0.00617	0.00111	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Trichloroethene	0.00173	U	0.00617	0.00173	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,1,1-Trichloroethane	0.000914	U	0.00617	0.000914	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,1-Dichloroethane	0.00107	U	0.00617	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,2-Dichloropropane	0.000877	U	0.00617	0.000877	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Chloroform	0.000815	U	0.0123	0.000815	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Toluene	0.00170	U	0.00617	0.00170	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,1,2-Trichloroethane	0.000901	U	0.00617	0.000901	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Tetrachloroethene	0.000877	U	0.00617	0.000877	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,2-Dibromoethane	0.00126	U	0.00617	0.00126	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Ethylbenzene	0.00126	U	0.00617	0.00126	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Xylenes, Total	0.00140	U	0.00617	0.00140	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
Styrene	0.000877	U	0.00617	0.000877	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,1,2,2-Tetrachloroethane	0.00107	U	0.00617	0.00107	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,4-Dichlorobenzene	0.000815	U	0.00617	0.000815	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,2-Dichlorobenzene	0.000988	U	0.00617	0.000988	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1
1,2,4-Trichlorobenzene	0.00243	U	0.00617	0.00243	mg/Kg	☼	04/30/20 17:13	05/01/20 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*	*04/30/20 17:13*	*05/01/20 15:54*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*04/30/20 17:13*	*05/01/20 15:54*	*1*
Toluene-d8 (Surr)	*106*		*50 - 130*	*04/30/20 17:13*	*05/01/20 15:54*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*04/30/20 17:13*	*05/01/20 15:54*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00123	U	0.0410	0.00123	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Anthracene	0.00157	U	0.0410	0.00157	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-55-S-2-3-200428

Date Collected: 04/28/20 10:56
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-4

Matrix: Solid
Percent Solids: 81.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.00170	U	0.0410	0.00170	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Benzo[b]fluoranthene	0.00212	U	0.0410	0.00212	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Benzo[k]fluoranthene	0.00183	U	0.0410	0.00183	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Benzo[g,h,i]perylene	0.00623	U	0.0410	0.00623	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Benzo[a]pyrene	0.00198	U	0.0410	0.00198	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Chrysene	0.00125	U	0.0410	0.00125	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Dibenz(a,h)anthracene	0.00446	U	0.0410	0.00446	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Fluoranthene	0.00382	U	0.0410	0.00382	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Fluorene	0.00290	U	0.0410	0.00290	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Indeno[1,2,3-cd]pyrene	0.00430	U	0.0410	0.00430	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
2-Methylnaphthalene	**0.00418**	**J**	0.0410	0.00337	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Phenanthrene	0.00609	U	0.0410	0.00609	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Pyrene	0.00225	U	0.0410	0.00225	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
1-Methylnaphthalene	**0.00327**	**J**	0.0410	0.00193	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Naphthalene	0.00166	U	0.0410	0.00166	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Acenaphthene	0.00177	U	0.0410	0.00177	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Atrazine	0.00617	U	0.0410	0.00617	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1
Pentachlorophenol	0.00492	U	0.205	0.00492	mg/Kg	☼	05/05/20 08:03	05/06/20 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*38 - 130*	*05/05/20 08:03*	*05/06/20 13:17*	*1*
Nitrobenzene-d5	*82*		*10 - 155*	*05/05/20 08:03*	*05/06/20 13:17*	*1*
Terphenyl-d14	*103*		*53 - 134*	*05/05/20 08:03*	*05/06/20 13:17*	*1*
2-Fluorophenol	*91*		*25 - 132*	*05/05/20 08:03*	*05/06/20 13:17*	*1*
2,4,6-Tribromophenol	*79*		*10 - 148*	*05/05/20 08:03*	*05/06/20 13:17*	*1*
Phenol-d5 (Surr)	*82*		*27 - 130*	*05/05/20 08:03*	*05/06/20 13:17*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.747	U	1.27	0.747	mg/Kg	☼	05/01/20 10:55	05/01/20 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 10:55*	*05/01/20 15:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.10	U	6.14	2.10	mg/Kg	☼	05/05/20 12:09	05/07/20 00:19	1
Oil Range Organics (C28-C35)	**13.2**		6.14	6.14	mg/Kg	☼	05/05/20 12:09	05/07/20 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*60 - 140*	*05/05/20 12:09*	*05/07/20 00:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.8**		4.92	0.657	mg/Kg	☼		05/07/20 12:49	1
Nitrate as N	**24.1**		2.46	0.309	mg/Kg	☼		05/07/20 12:49	1
Fluoride	**6.11**		2.46	0.740	mg/Kg	☼		05/07/20 12:49	1
Nitrite as N	0.365	U	2.46	0.365	mg/Kg	☼		05/07/20 12:49	1
Sulfate	**6290**		154	29.4	mg/Kg	☼		05/07/20 13:32	25

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-55-S-2-3-200428

Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 81.3

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.862	U	2.30	0.862	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Arsenic	4.59	U	11.5	4.59	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Barium	**112**		23.0	5.74	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Beryllium	0.459	U	1.15	0.459	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Cadmium	0.276	U	0.574	0.276	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Chromium	5.17	U	11.5	5.17	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Iron	**2470**		138	68.9	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Manganese	**18.7**		5.74	2.30	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Lead	**1.85**	**J**	3.45	1.44	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Antimony	2.30	U	5.74	2.30	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Selenium	3.68	U	5.74	3.68	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Thallium	2.30	U	5.74	2.30	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Zinc	23.0	U	57.4	23.0	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20
Sodium	**107**	**J**	230	86.2	mg/Kg	☼	05/05/20 08:48	05/06/20 21:16	20
Uranium	0.459	U	1.15	0.459	mg/Kg	☼	05/05/20 08:48	05/05/20 19:24	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0123	U	0.0370	0.0123	mg/Kg	☼	05/05/20 11:45	05/06/20 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.7**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**81.3**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0190	U	0.127	0.0190	mg/Kg	☼	05/06/20 14:16	05/06/20 20:38	1
Phenols, Total	0.253	U	0.301	0.253	mg/Kg	☼	05/13/20 14:35	05/13/20 18:52	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**964**		20.0	20.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell18-Square-35-S-2-3-200428

Lab Sample ID: 600-204530-5
Date Collected: 04/28/20 11:17
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00116	U	0.0129	0.00116	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,1-Dichloroethene	0.00157	U	0.00644	0.00157	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
trans-1,2-Dichloroethene	0.00147	U	0.00644	0.00147	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Methyl tert-butyl ether	0.00236	U	0.00644	0.00236	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Methylene Chloride	**0.00901**	**J b**	0.0129	0.00282	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
cis-1,2-Dichloroethene	0.00107	U	0.00644	0.00107	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Carbon tetrachloride	0.00146	U	0.00644	0.00146	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Benzene	0.000811	U	0.00644	0.000811	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,2-Dichloroethane	0.00116	U	0.00644	0.00116	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Trichloroethene	0.00180	U	0.00644	0.00180	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,1,1-Trichloroethane	0.000953	U	0.00644	0.000953	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,1-Dichloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,2-Dichloropropane	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Chloroform	0.000850	U	0.0129	0.000850	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-35-S-2-3-200428
Date Collected: 04/28/20 11:17
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-5
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.00178	U	0.00644	0.00178	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,1,2-Trichloroethane	0.000940	U	0.00644	0.000940	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Tetrachloroethene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,2-Dibromoethane	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Ethylbenzene	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Xylenes, Total	0.00146	U	0.00644	0.00146	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
Styrene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,1,2,2-Tetrachloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,4-Dichlorobenzene	0.000850	U	0.00644	0.000850	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,2-Dichlorobenzene	0.00103	U	0.00644	0.00103	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1
1,2,4-Trichlorobenzene	0.00254	U	0.00644	0.00254	mg/Kg	☼	05/01/20 09:42	05/01/20 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*61 - 130*	*05/01/20 09:42*	*05/01/20 16:16*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*05/01/20 09:42*	*05/01/20 16:16*	*1*
Toluene-d8 (Surr)	*112*		*50 - 130*	*05/01/20 09:42*	*05/01/20 16:16*	*1*
4-Bromofluorobenzene	*114*		*57 - 140*	*05/01/20 09:42*	*05/01/20 16:16*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00126	U	0.0421	0.00126	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Anthracene	0.00162	U	0.0421	0.00162	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Benzo[a]anthracene	0.00175	U	0.0421	0.00175	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Benzo[b]fluoranthene	0.00218	U	0.0421	0.00218	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Benzo[k]fluoranthene	0.00188	U	0.0421	0.00188	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Benzo[g,h,i]perylene	0.00641	U	0.0421	0.00641	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Benzo[a]pyrene	0.00204	U	0.0421	0.00204	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Chrysene	0.00129	U	0.0421	0.00129	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Dibenz(a,h)anthracene	0.00459	U	0.0421	0.00459	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Fluoranthene	0.00393	U	0.0421	0.00393	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Fluorene	0.00298	U	0.0421	0.00298	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Indeno[1,2,3-cd]pyrene	0.00443	U	0.0421	0.00443	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
2-Methylnaphthalene	**0.0199**	**J**	0.0421	0.00347	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Phenanthrene	**0.00697**	**J**	0.0421	0.00626	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Pyrene	0.00231	U	0.0421	0.00231	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
1-Methylnaphthalene	**0.0145**	**J**	0.0421	0.00199	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Naphthalene	0.00171	U	0.0421	0.00171	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Acenaphthene	0.00182	U	0.0421	0.00182	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Atrazine	0.00635	U	0.0421	0.00635	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1
Pentachlorophenol	0.00506	U	0.211	0.00506	mg/Kg	☼	05/05/20 08:03	05/06/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*119*		*38 - 130*	*05/05/20 08:03*	*05/06/20 13:40*	*1*
Nitrobenzene-d5	*93*		*10 - 155*	*05/05/20 08:03*	*05/06/20 13:40*	*1*
Terphenyl-d14	*113*		*53 - 134*	*05/05/20 08:03*	*05/06/20 13:40*	*1*
2-Fluorophenol	*96*		*25 - 132*	*05/05/20 08:03*	*05/06/20 13:40*	*1*
2,4,6-Tribromophenol	*92*		*10 - 148*	*05/05/20 08:03*	*05/06/20 13:40*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*05/05/20 08:03*	*05/06/20 13:40*	*1*

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-35-S-2-3-200428

Date Collected: 04/28/20 11:17
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-5

Matrix: Solid
Percent Solids: 79.1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.742	U	1.27	0.742	mg/Kg	☼	05/01/20 10:55	05/01/20 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 10:55*	*05/01/20 16:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.15	U	6.29	2.15	mg/Kg	☼	05/05/20 12:09	05/07/20 00:53	1
Oil Range Organics (C28-C35)	**13.9**		6.29	6.29	mg/Kg	☼	05/05/20 12:09	05/07/20 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*127*		*60 - 140*	*05/05/20 12:09*	*05/07/20 00:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.71**	**J**	5.06	0.675	mg/Kg	☼		05/07/20 13:52	1
Nitrate as N	**5.62**		2.53	0.317	mg/Kg	☼		05/07/20 13:52	1
Fluoride	**7.89**		2.53	0.761	mg/Kg	☼		05/07/20 13:52	1
Nitrite as N	0.376	U	2.53	0.376	mg/Kg	☼		05/07/20 13:52	1
Sulfate	**90.4**		6.32	1.21	mg/Kg	☼		05/07/20 13:52	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.882	U	2.35	0.882	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Arsenic	4.70	U	11.8	4.70	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Barium	**291**		23.5	5.88	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Beryllium	0.470	U	1.18	0.470	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Cadmium	0.282	U	0.588	0.282	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Chromium	5.29	U	11.8	5.29	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Iron	**2690**		141	70.6	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Manganese	**21.5**		5.88	2.35	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Lead	**2.02**	**J**	3.53	1.47	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Antimony	2.35	U	5.88	2.35	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Selenium	3.76	U	5.88	3.76	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Thallium	2.35	U	5.88	2.35	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Zinc	23.5	U	58.8	23.5	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20
Sodium	**146**	**J**	235	88.2	mg/Kg	☼	05/05/20 08:48	05/06/20 21:22	20
Uranium	0.470	U	1.18	0.470	mg/Kg	☼	05/05/20 08:48	05/05/20 19:31	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0151**	**J**	0.0400	0.0133	mg/Kg	☼	05/05/20 11:45	05/06/20 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		1.0	1.0	%			05/05/20 09:45	1
Percent Solids	**79.1**		1.0	1.0	%			05/05/20 09:45	1
Cyanide, Total	0.0223	U	0.149	0.0223	mg/Kg	☼	05/06/20 14:16	05/06/20 20:39	1
Phenols, Total	0.258	U	0.307	0.258	mg/Kg	☼	05/13/20 14:35	05/13/20 18:54	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-35-S-2-3-200428

Lab Sample ID: 600-204530-5
Date Collected: 04/28/20 11:17
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 79.1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**303**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell18-Square-59-S-2-3-200428

Lab Sample ID: 600-204530-6
Date Collected: 04/28/20 11:47
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00120	U	0.0134	0.00120	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,1-Dichloroethene	0.00163	U	0.00668	0.00163	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
trans-1,2-Dichloroethene	0.00152	U	0.00668	0.00152	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Methyl tert-butyl ether	0.00245	U	0.00668	0.00245	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Methylene Chloride	**0.00935**	**J b**	0.0134	0.00293	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
cis-1,2-Dichloroethene	0.00111	U	0.00668	0.00111	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Carbon tetrachloride	0.00151	U	0.00668	0.00151	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Benzene	0.000842	U	0.00668	0.000842	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,2-Dichloroethane	0.00120	U	0.00668	0.00120	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Trichloroethene	0.00187	U	0.00668	0.00187	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,1,1-Trichloroethane	0.000989	U	0.00668	0.000989	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,1-Dichloroethane	0.00116	U	0.00668	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,2-Dichloropropane	0.000949	U	0.00668	0.000949	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Chloroform	0.000882	U	0.0134	0.000882	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Toluene	**0.00371**	**J**	0.00668	0.00184	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,1,2-Trichloroethane	0.000976	U	0.00668	0.000976	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Tetrachloroethene	0.000949	U	0.00668	0.000949	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,2-Dibromoethane	0.00136	U	0.00668	0.00136	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Ethylbenzene	0.00136	U	0.00668	0.00136	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Xylenes, Total	0.00151	U	0.00668	0.00151	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
Styrene	0.000949	U	0.00668	0.000949	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,1,2,2-Tetrachloroethane	0.00116	U	0.00668	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,4-Dichlorobenzene	0.000882	U	0.00668	0.000882	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,2-Dichlorobenzene	0.00107	U	0.00668	0.00107	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1
1,2,4-Trichlorobenzene	0.00263	U	0.00668	0.00263	mg/Kg	☼	05/01/20 09:42	05/02/20 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*	*05/01/20 09:42*	*05/02/20 11:46*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*05/01/20 09:42*	*05/02/20 11:46*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*05/01/20 09:42*	*05/02/20 11:46*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*05/01/20 09:42*	*05/02/20 11:46*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00131	U	0.0436	0.00131	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Anthracene	0.00168	U	0.0436	0.00168	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Benzo[a]anthracene	**0.0156**	**J**	0.0436	0.00181	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Benzo[b]fluoranthene	**0.0157**	**J**	0.0436	0.00225	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Benzo[k]fluoranthene	0.00195	U	0.0436	0.00195	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Benzo[g,h,i]perylene	0.00664	U	0.0436	0.00664	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Benzo[a]pyrene	**0.0101**	**J**	0.0436	0.00211	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Chrysene	**0.0225**	**J**	0.0436	0.00134	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-59-S-2-3-200428

Date Collected: 04/28/20 11:47
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-6

Matrix: Solid
Percent Solids: 76.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.00476	U	0.0436	0.00476	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Fluoranthene	**0.0381**	**J**	0.0436	0.00407	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Fluorene	**0.0188**	**J**	0.0436	0.00309	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Indeno[1,2,3-cd]pyrene	0.00458	U	0.0436	0.00458	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
2-Methylnaphthalene	**0.0843**		0.0436	0.00359	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Phenanthrene	**0.0411**	**J**	0.0436	0.00648	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Pyrene	**0.0147**	**J**	0.0436	0.00240	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
1-Methylnaphthalene	**0.0757**		0.0436	0.00206	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Naphthalene	**0.0982**		0.0436	0.00177	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Acenaphthene	0.00189	U	0.0436	0.00189	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Atrazine	0.00658	U	0.0436	0.00658	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1
Pentachlorophenol	0.00524	U	0.219	0.00524	mg/Kg	☼	05/05/20 08:03	05/06/20 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*38 - 130*	*05/05/20 08:03*	*05/06/20 14:04*	*1*
Nitrobenzene-d5	*56*		*10 - 155*	*05/05/20 08:03*	*05/06/20 14:04*	*1*
Terphenyl-d14	*85*		*53 - 134*	*05/05/20 08:03*	*05/06/20 14:04*	*1*
2-Fluorophenol	*56*		*25 - 132*	*05/05/20 08:03*	*05/06/20 14:04*	*1*
2,4,6-Tribromophenol	*30*		*10 - 148*	*05/05/20 08:03*	*05/06/20 14:04*	*1*
Phenol-d5 (Surr)	*31*		*27 - 130*	*05/05/20 08:03*	*05/06/20 14:04*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.766	U	1.31	0.766	mg/Kg	☼	05/01/20 10:55	05/01/20 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 10:55*	*05/01/20 16:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.23	U	6.52	2.23	mg/Kg	☼	05/05/20 12:09	05/07/20 01:26	1
Oil Range Organics (C28-C35)	**14.2**		6.52	6.52	mg/Kg	☼	05/05/20 12:09	05/07/20 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*60 - 140*	*05/05/20 12:09*	*05/07/20 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.81**	**J**	5.24	0.700	mg/Kg	☼		05/07/20 14:12	1
Nitrate as N	**24.6**		2.62	0.329	mg/Kg	☼		05/07/20 14:12	1
Fluoride	**6.99**		2.62	0.788	mg/Kg	☼		05/07/20 14:12	1
Nitrite as N	0.389	U	2.62	0.389	mg/Kg	☼		05/07/20 14:12	1
Sulfate	**101**		6.55	1.25	mg/Kg	☼		05/07/20 14:12	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.835	U	2.23	0.835	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Arsenic	4.45	U	11.1	4.45	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Barium	**388**		22.3	5.57	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Beryllium	0.445	U	1.11	0.445	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Cadmium	0.267	U	0.557	0.267	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-59-S-2-3-200428
Lab Sample ID: 600-204530-6
Date Collected: 04/28/20 11:47
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	5.01	U	11.1	5.01	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Iron	**2120**		134	66.8	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Manganese	**16.2**		5.57	2.23	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Lead	1.39	U	3.34	1.39	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Antimony	2.23	U	5.57	2.23	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Selenium	3.56	U	5.57	3.56	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Thallium	2.23	U	5.57	2.23	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Zinc	22.3	U	55.7	22.3	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20
Sodium	83.5	U	223	83.5	mg/Kg	☼	05/05/20 08:48	05/06/20 21:29	20
Uranium	**0.459**	**J**	1.11	0.445	mg/Kg	☼	05/05/20 08:48	05/05/20 19:38	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0136	U	0.0409	0.0136	mg/Kg	☼	05/05/20 11:45	05/06/20 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.7**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**76.3**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0226	U	0.151	0.0226	mg/Kg	☼	05/06/20 14:16	05/06/20 20:40	1
Phenols, Total	**0.372**	**b**	0.321	0.269	mg/Kg	☼	05/13/20 14:35	05/13/20 18:57	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**166**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell18-Square-202-S-2-3-200428
Lab Sample ID: 600-204530-7
Date Collected: 04/28/20 12:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 69.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00131	U	0.0145	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,1-Dichloroethene	0.00177	U	0.00727	0.00177	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
trans-1,2-Dichloroethene	0.00166	U	0.00727	0.00166	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Methyl tert-butyl ether	0.00266	U	0.00727	0.00266	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Methylene Chloride	**0.00936**	**J b**	0.0145	0.00319	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
cis-1,2-Dichloroethene	0.00121	U	0.00727	0.00121	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Carbon tetrachloride	0.00164	U	0.00727	0.00164	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Benzene	0.000916	U	0.00727	0.000916	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,2-Dichloroethane	0.00131	U	0.00727	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Trichloroethene	0.00204	U	0.00727	0.00204	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,1,1-Trichloroethane	0.00108	U	0.00727	0.00108	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,1-Dichloroethane	0.00127	U	0.00727	0.00127	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,2-Dichloropropane	0.00103	U	0.00727	0.00103	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Chloroform	0.000960	U	0.0145	0.000960	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Toluene	**0.00389**	**J**	0.00727	0.00201	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,1,2-Trichloroethane	0.00106	U	0.00727	0.00106	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Tetrachloroethene	0.00103	U	0.00727	0.00103	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,2-Dibromoethane	0.00148	U	0.00727	0.00148	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Ethylbenzene	0.00148	U	0.00727	0.00148	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-202-S-2-3-200428 **Lab Sample ID: 600-204530-7**
Date Collected: 04/28/20 12:12 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 69.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.00164	U	0.00727	0.00164	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
Styrene	0.00103	U	0.00727	0.00103	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,1,2,2-Tetrachloroethane	0.00127	U	0.00727	0.00127	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,4-Dichlorobenzene	0.000960	U	0.00727	0.000960	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,2-Dichlorobenzene	0.00116	U	0.00727	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1
1,2,4-Trichlorobenzene	0.00287	U	0.00727	0.00287	mg/Kg	☼	05/01/20 09:42	05/02/20 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*05/01/20 09:42*	*05/02/20 12:08*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/01/20 09:42*	*05/02/20 12:08*	*1*
Toluene-d8 (Surr)	*104*		*50 - 130*	*05/01/20 09:42*	*05/02/20 12:08*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*05/01/20 09:42*	*05/02/20 12:08*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00143	U	0.0477	0.00143	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Anthracene	0.00183	U	0.0477	0.00183	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Benzo[a]anthracene	0.00198	U	0.0477	0.00198	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Benzo[b]fluoranthene	0.00246	U	0.0477	0.00246	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Benzo[k]fluoranthene	0.00213	U	0.0477	0.00213	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Benzo[g,h,i]perylene	0.00726	U	0.0477	0.00726	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Benzo[a]pyrene	0.00230	U	0.0477	0.00230	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Chrysene	0.00146	U	0.0477	0.00146	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Dibenz(a,h)anthracene	0.00520	U	0.0477	0.00520	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Fluoranthene	0.00445	U	0.0477	0.00445	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Fluorene	0.00338	U	0.0477	0.00338	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Indeno[1,2,3-cd]pyrene	0.00501	U	0.0477	0.00501	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
2-Methylnaphthalene	0.00392	U	0.0477	0.00392	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Phenanthrene	0.00708	U	0.0477	0.00708	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Pyrene	0.00262	U	0.0477	0.00262	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
1-Methylnaphthalene	**0.00305**	**J**	0.0477	0.00225	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Naphthalene	0.00193	U	0.0477	0.00193	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Acenaphthene	0.00206	U	0.0477	0.00206	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Atrazine	0.00718	U	0.0477	0.00718	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1
Pentachlorophenol	0.00572	U	0.239	0.00572	mg/Kg	☼	05/05/20 08:03	05/06/20 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*38 - 130*	*05/05/20 08:03*	*05/06/20 14:28*	*1*
Nitrobenzene-d5	*76*		*10 - 155*	*05/05/20 08:03*	*05/06/20 14:28*	*1*
Terphenyl-d14	*102*		*53 - 134*	*05/05/20 08:03*	*05/06/20 14:28*	*1*
2-Fluorophenol	*83*		*25 - 132*	*05/05/20 08:03*	*05/06/20 14:28*	*1*
2,4,6-Tribromophenol	*69*		*10 - 148*	*05/05/20 08:03*	*05/06/20 14:28*	*1*
Phenol-d5 (Surr)	*75*		*27 - 130*	*05/05/20 08:03*	*05/06/20 14:28*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.856	U	1.46	0.856	mg/Kg	☼	05/01/20 10:55	05/01/20 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 10:55*	*05/01/20 16:51*	*1*

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-202-S-2-3-200428

Date Collected: 04/28/20 12:12
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-7

Matrix: Solid
Percent Solids: 69.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.44	U	7.13	2.44	mg/Kg	☼	05/05/20 12:09	05/07/20 01:59	1
Oil Range Organics (C28-C35)	**15.8**		7.13	7.13	mg/Kg	☼	05/05/20 12:09	05/07/20 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*120*		*60 - 140*	*05/05/20 12:09*	*05/07/20 01:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.90**	**J**	5.72	0.764	mg/Kg	☼		05/07/20 15:24	1
Nitrate as N	**19.1**		2.86	0.359	mg/Kg	☼		05/07/20 15:24	1
Fluoride	**6.53**		2.86	0.861	mg/Kg	☼		05/07/20 15:24	1
Nitrite as N	0.425	U	2.86	0.425	mg/Kg	☼		05/07/20 15:24	1
Sulfate	**107**		7.16	1.37	mg/Kg	☼		05/07/20 15:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	1.03	U	2.73	1.03	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Arsenic	**5.78**	**J**	13.7	5.47	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Barium	**727**		27.3	6.84	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Beryllium	0.547	U	1.37	0.547	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Cadmium	0.328	U	0.684	0.328	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Chromium	6.15	U	13.7	6.15	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Iron	**4450**		164	82.0	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Manganese	**29.7**		6.84	2.73	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Lead	**2.85**	**J**	4.10	1.71	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Antimony	2.73	U	6.84	2.73	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Selenium	4.37	U	6.84	4.37	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Thallium	2.73	U	6.84	2.73	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Zinc	27.3	U	68.4	27.3	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20
Sodium	**340**		273	103	mg/Kg	☼	05/05/20 08:48	05/06/20 21:36	20
Uranium	**0.550**	**J**	1.37	0.547	mg/Kg	☼	05/05/20 08:48	05/05/20 19:44	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0150	U	0.0449	0.0150	mg/Kg	☼	05/05/20 11:45	05/06/20 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.1**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**69.9**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0221	U	0.147	0.0221	mg/Kg	☼	05/05/20 17:31	05/05/20 20:08	1
Phenols, Total	0.294	U	0.351	0.294	mg/Kg	☼	05/13/20 14:35	05/13/20 18:58	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**246**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-14-S-2-3-200428

Date Collected: 04/28/20 12:50
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-8

Matrix: Solid
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00116	U	0.0129	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,1-Dichloroethene	0.00157	U	0.00644	0.00157	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
trans-1,2-Dichloroethene	0.00147	U	0.00644	0.00147	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Methyl tert-butyl ether	0.00236	U	0.00644	0.00236	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Methylene Chloride	**0.00897**	**J b**	0.0129	0.00282	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
cis-1,2-Dichloroethene	0.00107	U	0.00644	0.00107	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Carbon tetrachloride	0.00145	U	0.00644	0.00145	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Benzene	0.000811	U	0.00644	0.000811	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,2-Dichloroethane	0.00116	U	0.00644	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Trichloroethene	0.00180	U	0.00644	0.00180	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,1,1-Trichloroethane	0.000953	U	0.00644	0.000953	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,1-Dichloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,2-Dichloropropane	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Chloroform	0.000850	U	0.0129	0.000850	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Toluene	**0.00329**	**J**	0.00644	0.00178	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,1,2-Trichloroethane	0.000940	U	0.00644	0.000940	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Tetrachloroethene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,2-Dibromoethane	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Ethylbenzene	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Xylenes, Total	0.00145	U	0.00644	0.00145	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
Styrene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,1,2,2-Tetrachloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,4-Dichlorobenzene	0.000850	U	0.00644	0.000850	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,2-Dichlorobenzene	0.00103	U	0.00644	0.00103	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1
1,2,4-Trichlorobenzene	0.00254	U	0.00644	0.00254	mg/Kg	☼	05/01/20 09:42	05/02/20 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*	*05/01/20 09:42*	*05/02/20 12:31*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*05/01/20 09:42*	*05/02/20 12:31*	*1*
Toluene-d8 (Surr)	*111*		*50 - 130*	*05/01/20 09:42*	*05/02/20 12:31*	*1*
4-Bromofluorobenzene	*112*		*57 - 140*	*05/01/20 09:42*	*05/02/20 12:31*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00129	U	0.0430	0.00129	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Anthracene	0.00165	U	0.0430	0.00165	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Benzo[a]anthracene	0.00178	U	0.0430	0.00178	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Benzo[b]fluoranthene	0.00222	U	0.0430	0.00222	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Benzo[k]fluoranthene	0.00192	U	0.0430	0.00192	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Benzo[g,h,i]perylene	0.00655	U	0.0430	0.00655	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Benzo[a]pyrene	0.00208	U	0.0430	0.00208	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Chrysene	0.00132	U	0.0430	0.00132	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Dibenz(a,h)anthracene	0.00469	U	0.0430	0.00469	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Fluoranthene	0.00402	U	0.0430	0.00402	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Fluorene	0.00305	U	0.0430	0.00305	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Indeno[1,2,3-cd]pyrene	0.00452	U	0.0430	0.00452	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
2-Methylnaphthalene	**0.0268**	**J**	0.0430	0.00354	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Phenanthrene	0.00639	U	0.0430	0.00639	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Pyrene	0.00236	U	0.0430	0.00236	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
1-Methylnaphthalene	**0.0147**	**J**	0.0430	0.00203	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-14-S-2-3-200428
Date Collected: 04/28/20 12:50
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-8
Matrix: Solid
Percent Solids: 77.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.0469**		0.0430	0.00174	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Acenaphthene	0.00186	U	0.0430	0.00186	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Atrazine	0.00648	U	0.0430	0.00648	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1
Pentachlorophenol	0.00517	U	0.216	0.00517	mg/Kg	☼	05/05/20 08:03	05/06/20 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*38 - 130*	*05/05/20 08:03*	*05/06/20 14:52*	*1*
Nitrobenzene-d5	*80*		*10 - 155*	*05/05/20 08:03*	*05/06/20 14:52*	*1*
Terphenyl-d14	*106*		*53 - 134*	*05/05/20 08:03*	*05/06/20 14:52*	*1*
2-Fluorophenol	*90*		*25 - 132*	*05/05/20 08:03*	*05/06/20 14:52*	*1*
2,4,6-Tribromophenol	*84*		*10 - 148*	*05/05/20 08:03*	*05/06/20 14:52*	*1*
Phenol-d5 (Surr)	*81*		*27 - 130*	*05/05/20 08:03*	*05/06/20 14:52*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.730	U	1.25	0.730	mg/Kg	☼	05/01/20 10:55	05/01/20 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*70 - 130*	*05/01/20 10:55*	*05/01/20 17:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.21	U	6.46	2.21	mg/Kg	☼	05/05/20 12:09	05/07/20 02:32	1
Oil Range Organics (C28-C35)	**15.1**		6.46	6.46	mg/Kg	☼	05/05/20 12:09	05/07/20 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*117*		*60 - 140*	*05/05/20 12:09*	*05/07/20 02:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.66**	**J**	5.19	0.693	mg/Kg	☼		05/07/20 15:45	1
Nitrate as N	**5.86**		2.59	0.326	mg/Kg	☼		05/07/20 15:45	1
Fluoride	**5.94**		2.59	0.780	mg/Kg	☼		05/07/20 15:45	1
Nitrite as N	0.385	U	2.59	0.385	mg/Kg	☼		05/07/20 15:45	1
Sulfate	**186**		6.49	1.24	mg/Kg	☼		05/07/20 15:45	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.872	U	2.33	0.872	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Arsenic	4.65	U	11.6	4.65	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Barium	**583**		23.3	5.82	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Beryllium	0.465	U	1.16	0.465	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Cadmium	0.279	U	0.582	0.279	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Chromium	5.23	U	11.6	5.23	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Iron	**1820**		140	69.8	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Manganese	**17.9**		5.82	2.33	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Lead	1.45	U	3.49	1.45	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Antimony	2.33	U	5.82	2.33	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Selenium	3.72	U	5.82	3.72	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Thallium	2.33	U	5.82	2.33	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20
Zinc	**28.5**	**J**	58.2	23.3	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-14-S-2-3-200428

Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	87.2	U	233	87.2	mg/Kg	☼	05/05/20 08:48	05/06/20 21:43	20
Uranium	**0.558**	**J**	1.16	0.465	mg/Kg	☼	05/05/20 08:48	05/05/20 19:51	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0132	U	0.0395	0.0132	mg/Kg	☼	05/05/20 11:45	05/06/20 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.9**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**77.1**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0231	U	0.154	0.0231	mg/Kg	☼	05/05/20 17:31	05/05/20 20:10	1
Phenols, Total	**0.446**	**b**	0.318	0.267	mg/Kg	☼	05/13/20 14:35	05/13/20 18:59	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**164**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell21-Square-76-S-2-3-200428

Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00116	U	0.0129	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,1-Dichloroethene	0.00157	U	0.00644	0.00157	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
trans-1,2-Dichloroethene	0.00147	U	0.00644	0.00147	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Methyl tert-butyl ether	0.00236	U	0.00644	0.00236	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Methylene Chloride	**0.00866**	**J b**	0.0129	0.00282	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
cis-1,2-Dichloroethene	0.00107	U	0.00644	0.00107	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Carbon tetrachloride	0.00146	U	0.00644	0.00146	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Benzene	0.000811	U	0.00644	0.000811	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,2-Dichloroethane	0.00116	U	0.00644	0.00116	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Trichloroethene	0.00180	U	0.00644	0.00180	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,1,1-Trichloroethane	0.000953	U	0.00644	0.000953	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,1-Dichloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,2-Dichloropropane	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Chloroform	0.000850	U	0.0129	0.000850	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Toluene	**0.00343**	**J**	0.00644	0.00178	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,1,2-Trichloroethane	0.000940	U	0.00644	0.000940	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Tetrachloroethene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,2-Dibromoethane	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Ethylbenzene	0.00131	U	0.00644	0.00131	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Xylenes, Total	0.00146	U	0.00644	0.00146	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
Styrene	0.000914	U	0.00644	0.000914	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,1,2,2-Tetrachloroethane	0.00112	U	0.00644	0.00112	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,4-Dichlorobenzene	0.000850	U	0.00644	0.000850	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,2-Dichlorobenzene	0.00103	U	0.00644	0.00103	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1
1,2,4-Trichlorobenzene	0.00254	U	0.00644	0.00254	mg/Kg	☼	05/01/20 09:42	05/02/20 12:53	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-76-S-2-3-200428

Date Collected: 04/28/20 13:12
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-9

Matrix: Solid
Percent Solids: 78.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		61 - 130	05/01/20 09:42	05/02/20 12:53	1
Dibromofluoromethane	95		68 - 140	05/01/20 09:42	05/02/20 12:53	1
Toluene-d8 (Surr)	106		50 - 130	05/01/20 09:42	05/02/20 12:53	1
4-Bromofluorobenzene	110		57 - 140	05/01/20 09:42	05/02/20 12:53	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00128	U	0.0427	0.00128	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Anthracene	0.00164	U	0.0427	0.00164	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Benzo[a]anthracene	0.00177	U	0.0427	0.00177	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Benzo[b]fluoranthene	0.00221	U	0.0427	0.00221	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Benzo[k]fluoranthene	0.00191	U	0.0427	0.00191	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Benzo[g,h,i]perylene	0.00650	U	0.0427	0.00650	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Benzo[a]pyrene	0.00207	U	0.0427	0.00207	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Chrysene	0.00131	U	0.0427	0.00131	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Dibenz(a,h)anthracene	0.00466	U	0.0427	0.00466	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Fluoranthene	0.00399	U	0.0427	0.00399	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Fluorene	**0.00341**	**J**	0.0427	0.00303	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Indeno[1,2,3-cd]pyrene	0.00449	U	0.0427	0.00449	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
2-Methylnaphthalene	**0.0195**	**J**	0.0427	0.00351	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Phenanthrene	**0.0149**	**J**	0.0427	0.00635	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Pyrene	**0.00301**	**J**	0.0427	0.00235	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
1-Methylnaphthalene	**0.0243**	**J**	0.0427	0.00201	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Naphthalene	0.00173	U	0.0427	0.00173	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Acenaphthene	0.00185	U	0.0427	0.00185	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Atrazine	0.00644	U	0.0427	0.00644	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1
Pentachlorophenol	0.00513	U	0.214	0.00513	mg/Kg	☼	05/05/20 08:03	05/06/20 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		38 - 130	05/05/20 08:03	05/06/20 15:16	1
Nitrobenzene-d5	62		10 - 155	05/05/20 08:03	05/06/20 15:16	1
Terphenyl-d14	77		53 - 134	05/05/20 08:03	05/06/20 15:16	1
2-Fluorophenol	79		25 - 132	05/05/20 08:03	05/06/20 15:16	1
2,4,6-Tribromophenol	73		10 - 148	05/05/20 08:03	05/06/20 15:16	1
Phenol-d5 (Surr)	70		27 - 130	05/05/20 08:03	05/06/20 15:16	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.765	U	1.30	0.765	mg/Kg	☼	05/01/20 10:55	05/02/20 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130	05/01/20 10:55	05/02/20 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.18	U	6.39	2.18	mg/Kg	☼	05/05/20 12:09	05/07/20 03:05	1
Oil Range Organics (C28-C35)	6.39	U	6.39	6.39	mg/Kg	☼	05/05/20 12:09	05/07/20 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		60 - 140	05/05/20 12:09	05/07/20 03:05	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-76-S-2-3-200428

Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 78.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.2**		5.13	0.685	mg/Kg	☼		05/07/20 16:05	1
Nitrate as N	**6.85**		2.57	0.322	mg/Kg	☼		05/07/20 16:05	1
Fluoride	**6.04**		2.57	0.771	mg/Kg	☼		05/07/20 16:05	1
Nitrite as N	0.381	U	2.57	0.381	mg/Kg	☼		05/07/20 16:05	1
Sulfate	**42.2**		6.41	1.23	mg/Kg	☼		05/07/20 16:05	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.888	U	2.37	0.888	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Arsenic	**5.86**	**J**	11.8	4.74	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Barium	**241**		23.7	5.92	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Beryllium	0.474	U	1.18	0.474	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Cadmium	0.284	U	0.592	0.284	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Chromium	5.33	U	11.8	5.33	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Iron	**3070**		142	71.1	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Manganese	**20.2**		5.92	2.37	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Lead	**1.54**	**J**	3.55	1.48	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Antimony	2.37	U	5.92	2.37	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Selenium	3.79	U	5.92	3.79	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Thallium	2.37	U	5.92	2.37	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Zinc	23.7	U	59.2	23.7	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20
Sodium	**121**	**J**	237	88.8	mg/Kg	☼	05/05/20 08:48	05/06/20 21:49	20
Uranium	**0.550**	**J**	1.18	0.474	mg/Kg	☼	05/05/20 08:48	05/05/20 19:58	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0133	U	0.0398	0.0133	mg/Kg	☼	05/05/20 11:45	05/06/20 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.0**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**78.0**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0200	U	0.133	0.0200	mg/Kg	☼	05/05/20 17:31	05/05/20 20:11	1
Phenols, Total	0.254	U	0.303	0.254	mg/Kg	☼	05/13/20 14:35	05/13/20 19:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**141**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell21-Square-155-S-2-3-200428

Lab Sample ID: 600-204530-10
Date Collected: 04/28/20 13:39
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00104	U	0.0115	0.00104	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,1-Dichloroethene	0.00140	U	0.00575	0.00140	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
trans-1,2-Dichloroethene	0.00131	U	0.00575	0.00131	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Methyl tert-butyl ether	0.00211	U	0.00575	0.00211	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Methylene Chloride	**0.00793**	**J b**	0.0115	0.00252	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
cis-1,2-Dichloroethene	0.000955	U	0.00575	0.000955	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-155-S-2-3-200428
Date Collected: 04/28/20 13:39
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-10
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.00130	U	0.00575	0.00130	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Benzene	0.000725	U	0.00575	0.000725	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,2-Dichloroethane	0.00104	U	0.00575	0.00104	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Trichloroethene	0.00161	U	0.00575	0.00161	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,1,1-Trichloroethane	0.000852	U	0.00575	0.000852	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,1-Dichloroethane	0.00100	U	0.00575	0.00100	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,2-Dichloropropane	0.000817	U	0.00575	0.000817	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Chloroform	0.000760	U	0.0115	0.000760	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Toluene	0.00159	U	0.00575	0.00159	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,1,2-Trichloroethane	0.000840	U	0.00575	0.000840	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Tetrachloroethene	0.000817	U	0.00575	0.000817	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,2-Dibromoethane	0.00117	U	0.00575	0.00117	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Ethylbenzene	0.00117	U	0.00575	0.00117	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Xylenes, Total	0.00130	U	0.00575	0.00130	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
Styrene	0.000817	U	0.00575	0.000817	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,1,2,2-Tetrachloroethane	0.00100	U	0.00575	0.00100	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,4-Dichlorobenzene	0.000760	U	0.00575	0.000760	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,2-Dichlorobenzene	0.000921	U	0.00575	0.000921	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1
1,2,4-Trichlorobenzene	0.00227	U	0.00575	0.00227	mg/Kg	☼	05/02/20 12:46	05/02/20 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*	*05/02/20 12:46*	*05/02/20 17:45*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/02/20 12:46*	*05/02/20 17:45*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*05/02/20 12:46*	*05/02/20 17:45*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*05/02/20 12:46*	*05/02/20 17:45*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00120	U	0.0398	0.00120	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Anthracene	0.00153	U	0.0398	0.00153	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Benzo[a]anthracene	0.00165	U	0.0398	0.00165	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Benzo[b]fluoranthene	0.00206	U	0.0398	0.00206	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Benzo[k]fluoranthene	0.00178	U	0.0398	0.00178	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Benzo[g,h,i]perylene	0.00606	U	0.0398	0.00606	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Benzo[a]pyrene	0.00192	U	0.0398	0.00192	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Chrysene	0.00122	U	0.0398	0.00122	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Dibenz(a,h)anthracene	0.00434	U	0.0398	0.00434	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Fluoranthene	0.00372	U	0.0398	0.00372	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Fluorene	0.00282	U	0.0398	0.00282	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Indeno[1,2,3-cd]pyrene	0.00418	U	0.0398	0.00418	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
2-Methylnaphthalene	0.00327	U	0.0398	0.00327	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Phenanthrene	0.00592	U	0.0398	0.00592	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Pyrene	0.00219	U	0.0398	0.00219	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
1-Methylnaphthalene	0.00188	U	0.0398	0.00188	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Naphthalene	0.00161	U	0.0398	0.00161	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Acenaphthene	0.00172	U	0.0398	0.00172	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Atrazine	0.00600	U	0.0398	0.00600	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1
Pentachlorophenol	0.00478	U	0.200	0.00478	mg/Kg	☼	05/05/20 08:03	05/06/20 15:40	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-155-S-2-3-200428

Date Collected: 04/28/20 13:39
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-10

Matrix: Solid
Percent Solids: 83.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		38 - 130	05/05/20 08:03	05/06/20 15:40	1
Nitrobenzene-d5	62		10 - 155	05/05/20 08:03	05/06/20 15:40	1
Terphenyl-d14	70		53 - 134	05/05/20 08:03	05/06/20 15:40	1
2-Fluorophenol	66		25 - 132	05/05/20 08:03	05/06/20 15:40	1
2,4,6-Tribromophenol	53		10 - 148	05/05/20 08:03	05/06/20 15:40	1
Phenol-d5 (Surr)	58		27 - 130	05/05/20 08:03	05/06/20 15:40	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.705	U	1.20	0.705	mg/Kg	☼	05/01/20 10:55	05/02/20 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130	05/01/20 10:55	05/02/20 10:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.03	U	5.95	2.03	mg/Kg	☼	05/05/20 12:13	05/07/20 03:38	1
Oil Range Organics (C28-C35)	**13.5**		5.95	5.95	mg/Kg	☼	05/05/20 12:13	05/07/20 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	110		60 - 140	05/05/20 12:13	05/07/20 03:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.63**	**J**	4.79	0.639	mg/Kg	☼		05/07/20 16:25	1
Nitrate as N	**7.99**		2.39	0.300	mg/Kg	☼		05/07/20 16:25	1
Fluoride	**4.24**		2.39	0.720	mg/Kg	☼		05/07/20 16:25	1
Nitrite as N	0.355	U	2.39	0.355	mg/Kg	☼		05/07/20 16:25	1
Sulfate	**87.7**		5.98	1.15	mg/Kg	☼		05/07/20 16:25	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.860	U	2.29	0.860	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Arsenic	4.59	U	11.5	4.59	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Barium	**744**		22.9	5.74	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Beryllium	0.459	U	1.15	0.459	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Cadmium	0.275	U	0.574	0.275	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Chromium	5.16	U	11.5	5.16	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Iron	**2190**		138	68.8	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Manganese	**19.7**		5.74	2.29	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Lead	1.43	U	3.44	1.43	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Antimony	2.29	U	5.74	2.29	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Selenium	3.67	U	5.74	3.67	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Thallium	2.29	U	5.74	2.29	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Zinc	22.9	U	57.4	22.9	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20
Sodium	**159**	**J**	229	86.0	mg/Kg	☼	05/05/20 08:48	05/06/20 21:56	20
Uranium	**0.532**	**J**	1.15	0.459	mg/Kg	☼	05/05/20 08:48	05/05/20 20:05	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0122	U	0.0367	0.0122	mg/Kg	☼	05/05/20 11:45	05/06/20 12:23	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 83.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**83.6**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0202	U	0.135	0.0202	mg/Kg	☼	05/05/20 17:31	05/05/20 20:12	1
Phenols, Total	0.248	U	0.296	0.248	mg/Kg	☼	05/13/20 14:35	05/13/20 19:05	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**105**		10.0	10.0	mg/L			05/18/20 10:31	1

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.00108	U	0.0120	0.00108	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,1-Dichloroethene	0.00146	U	0.00599	0.00146	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
trans-1,2-Dichloroethene	0.00137	U	0.00599	0.00137	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Methyl tert-butyl ether	0.00219	U	0.00599	0.00219	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Methylene Chloride	**0.00824**	**J b**	0.0120	0.00263	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
cis-1,2-Dichloroethene	0.000995	U	0.00599	0.000995	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Carbon tetrachloride	0.00135	U	0.00599	0.00135	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Benzene	0.000755	U	0.00599	0.000755	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,2-Dichloroethane	0.00108	U	0.00599	0.00108	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Trichloroethene	0.00168	U	0.00599	0.00168	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,1,1-Trichloroethane	0.000887	U	0.00599	0.000887	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,1-Dichloroethane	0.00104	U	0.00599	0.00104	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,2-Dichloropropane	0.000851	U	0.00599	0.000851	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Chloroform	0.000791	U	0.0120	0.000791	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Toluene	**0.00258**	**J**	0.00599	0.00165	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,1,2-Trichloroethane	0.000875	U	0.00599	0.000875	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Tetrachloroethene	0.000851	U	0.00599	0.000851	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,2-Dibromoethane	0.00122	U	0.00599	0.00122	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Ethylbenzene	0.00122	U	0.00599	0.00122	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Xylenes, Total	0.00135	U	0.00599	0.00135	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
Styrene	0.000851	U	0.00599	0.000851	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,1,2,2-Tetrachloroethane	0.00104	U	0.00599	0.00104	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,4-Dichlorobenzene	0.000791	U	0.00599	0.000791	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,2-Dichlorobenzene	0.000959	U	0.00599	0.000959	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1
1,2,4-Trichlorobenzene	0.00236	U	0.00599	0.00236	mg/Kg	☼	05/01/20 09:42	05/02/20 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*05/01/20 09:42*	*05/02/20 13:38*	*1*
Dibromofluoromethane	*93*		*68 - 140*	*05/01/20 09:42*	*05/02/20 13:38*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*05/01/20 09:42*	*05/02/20 13:38*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*05/01/20 09:42*	*05/02/20 13:38*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.00124	U	0.0414	0.00124	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Anthracene	0.00159	U	0.0414	0.00159	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-47-S-2-3-200428
Date Collected: 04/28/20 14:05
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-11
Matrix: Solid
Percent Solids: 80.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	0.00171	U	0.0414	0.00171	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Benzo[b]fluoranthene	**0.00246**	**J**	0.0414	0.00214	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Benzo[k]fluoranthene	0.00185	U	0.0414	0.00185	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Benzo[g,h,i]perylene	0.00630	U	0.0414	0.00630	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Benzo[a]pyrene	**0.00998**	**J**	0.0414	0.00200	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Chrysene	**0.00219**	**J**	0.0414	0.00127	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Dibenz(a,h)anthracene	0.00451	U	0.0414	0.00451	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Fluoranthene	0.00386	U	0.0414	0.00386	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Fluorene	0.00293	U	0.0414	0.00293	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Indeno[1,2,3-cd]pyrene	0.00435	U	0.0414	0.00435	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
2-Methylnaphthalene	**0.0288**	**J**	0.0414	0.00340	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Phenanthrene	**0.0179**	**J**	0.0414	0.00615	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Pyrene	**0.00512**	**J**	0.0414	0.00227	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
1-Methylnaphthalene	**0.0173**	**J**	0.0414	0.00195	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Naphthalene	0.00168	U	0.0414	0.00168	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Acenaphthene	**0.00741**	**J**	0.0414	0.00179	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Atrazine	0.00623	U	0.0414	0.00623	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1
Pentachlorophenol	0.00497	U	0.207	0.00497	mg/Kg	☼	05/05/20 08:03	05/06/20 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*38 - 130*	*05/05/20 08:03*	*05/06/20 16:03*	*1*
Nitrobenzene-d5	*74*		*10 - 155*	*05/05/20 08:03*	*05/06/20 16:03*	*1*
Terphenyl-d14	*93*		*53 - 134*	*05/05/20 08:03*	*05/06/20 16:03*	*1*
2-Fluorophenol	*84*		*25 - 132*	*05/05/20 08:03*	*05/06/20 16:03*	*1*
2,4,6-Tribromophenol	*78*		*10 - 148*	*05/05/20 08:03*	*05/06/20 16:03*	*1*
Phenol-d5 (Surr)	*75*		*27 - 130*	*05/05/20 08:03*	*05/06/20 16:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.768	U	1.31	0.768	mg/Kg	☼	05/01/20 10:55	05/02/20 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*70 - 130*	*05/01/20 10:55*	*05/02/20 11:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.11	U	6.18	2.11	mg/Kg	☼	05/05/20 12:16	05/06/20 18:08	1
Oil Range Organics (C28-C35)	6.18	U	6.18	6.18	mg/Kg	☼	05/05/20 12:16	05/06/20 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*139*		*60 - 140*	*05/05/20 12:16*	*05/06/20 18:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.46**	**J**	4.97	0.663	mg/Kg	☼		05/07/20 16:46	1
Nitrate as N	**4.87**		2.48	0.312	mg/Kg	☼		05/07/20 16:46	1
Fluoride	**7.31**		2.48	0.747	mg/Kg	☼		05/07/20 16:46	1
Nitrite as N	0.369	U	2.48	0.369	mg/Kg	☼		05/07/20 16:46	1
Sulfate	**47.0**		6.21	1.19	mg/Kg	☼		05/07/20 16:46	1

Client Sample Results

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

Job ID: 600-204530-1

Client Sample ID: Cell21-Square-47-S-2-3-200428

Lab Sample ID: 600-204530-11
Date Collected: 04/28/20 14:05
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 80.5

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.899	U	2.40	0.899	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Arsenic	**5.56**	**J**	12.0	4.80	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Barium	**470**		24.0	6.00	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Beryllium	0.480	U	1.20	0.480	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Cadmium	0.288	U	0.600	0.288	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Chromium	5.40	U	12.0	5.40	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Iron	**1950**		144	72.0	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Manganese	**19.7**		6.00	2.40	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Lead	1.50	U	3.60	1.50	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Antimony	2.40	U	6.00	2.40	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Selenium	3.84	U	6.00	3.84	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Thallium	2.40	U	6.00	2.40	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Zinc	24.0	U	60.0	24.0	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20
Sodium	89.9	U	240	89.9	mg/Kg	☼	05/05/20 08:48	05/06/20 22:23	20
Uranium	**0.568**	**J**	1.20	0.480	mg/Kg	☼	05/05/20 08:48	05/05/20 20:11	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0159**	**J**	0.0385	0.0128	mg/Kg	☼	05/05/20 11:45	05/06/20 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.5**		1.0	1.0	%			05/05/20 09:53	1
Percent Solids	**80.5**		1.0	1.0	%			05/05/20 09:53	1
Cyanide, Total	0.0212	U	0.141	0.0212	mg/Kg	☼	05/05/20 17:31	05/05/20 20:13	1
Phenols, Total	0.260	U	0.310	0.260	mg/Kg	☼	05/13/20 14:35	05/13/20 19:06	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**111**		10.0	10.0	mg/L			05/18/20 10:31	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Surrogate Summary

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

Job ID: 600-204530-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-204530-1	Cell19-Square-23-S-2-3-200428	82	98	107	112
600-204530-2	Cell19-Square-93-S-2-3-200428	82	96	105	111
600-204530-3	Cell19-Square-154-S-2-3-200428	88	101	106	112
600-204530-4	Cell18-Square-55-S-2-3-200428	83	98	106	109
600-204530-5	Cell18-Square-35-S-2-3-200428	85	100	112	114
600-204530-6	Cell18-Square-59-S-2-3-200428	81	97	107	109
600-204530-7	Cell18-Square-202-S-2-3-200428	84	96	104	111
600-204530-8	Cell21-Square-14-S-2-3-200428	83	97	111	112
600-204530-9	Cell21-Square-76-S-2-3-200428	79	95	106	110
600-204530-10	Cell21-Square-155-S-2-3-200428	80	96	107	108
600-204530-11	Cell21-Square-47-S-2-3-200428	82	93	107	109
LCS 600-293639/3	Lab Control Sample	75	98	105	101
LCS 600-293726/3	Lab Control Sample	77	101	110	106
LCSD 600-293639/4	Lab Control Sample Dup	79	103	109	106
LCSD 600-293726/4	Lab Control Sample Dup	75	97	105	105
MB 600-293639/6	Method Blank	88	98	108	104
MB 600-293726/6	Method Blank	87	97	111	110

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (38-130)	NBZ (10-155)	TPHL (53-134)	2FP (25-132)	TBP (10-148)	PHL (27-130)
600-204530-1	Cell19-Square-23-S-2-3-200428	89	34	99	83	90	68
600-204530-1 MS	Cell19-Square-23-S-2-3-200428	94	81	111	88	101	78
600-204530-1 MSD	Cell19-Square-23-S-2-3-200428	83	63	105	79	94	76
600-204530-2	Cell19-Square-93-S-2-3-200428	87	78	106	86	83	80
600-204530-3	Cell19-Square-154-S-2-3-200428	87	77	102	91	96	80
600-204530-4	Cell18-Square-55-S-2-3-200428	91	82	103	91	79	82
600-204530-5	Cell18-Square-35-S-2-3-200428	119	93	113	96	92	84
600-204530-6	Cell18-Square-59-S-2-3-200428	64	56	85	56	30	31

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	NBZ	TPHL	2FP	TBP	PHL
Lab Sample ID	Client Sample ID	(38-130)	(10-155)	(53-134)	(25-132)	(10-148)	(27-130)
600-204530-7	Cell18-Square-202-S-2-3-20042	84	76	102	83	69	75
600-204530-8	Cell21-Square-14-S-2-3-20042 8	91	80	106	90	84	81
600-204530-9	Cell21-Square-76-S-2-3-20042 8	69	62	77	79	73	70
600-204530-10	Cell21-Square-155-S-2-3-2004 28	71	62	70	66	53	58
600-204530-11	Cell21-Square-47-S-2-3-20042 8	82	74	93	84	78	75
LCS 600-293845/2-A	Lab Control Sample	63	52	107	53	75	45
MB 600-293845/1-A	Method Blank	93	92	110	98	58	83

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
2FP = 2-Fluorophenol
TBP = 2,4,6-Tribromophenol
PHL = Phenol-d5 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	
600-204530-1	Cell19-Square-23-S-2-3-200428	
600-204530-2	Cell19-Square-93-S-2-3-20042 8	
600-204530-3	Cell19-Square-154-S-2-3-2004 28	
600-204530-4	Cell18-Square-55-S-2-3-20042 8	
600-204530-5	Cell18-Square-35-S-2-3-20042 8	
600-204530-6	Cell18-Square-59-S-2-3-20042 8	
600-204530-7	Cell18-Square-202-S-2-3-2004 28	
MB 600-293686/3-A	Method Blank	

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-204530-8	Cell21-Square-14-S-2-3-200428	89
600-204530-9	Cell21-Square-76-S-2-3-20042 8	95
600-204530-10	Cell21-Square-155-S-2-3-2004 28	102

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-204530-11	Cell21-Square-47-S-2-3-200428	105
LCS 600-293597/1-A	Lab Control Sample	105
LCS 600-293686/1-A	Lab Control Sample	105
LCSD 600-293597/2-A	Lab Control Sample Dup	104
LCSD 600-293686/2-A	Lab Control Sample Dup	105
MB 600-293597/3-A	Method Blank	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-204530-1	Cell19-Square-23-S-2-3-200428	45 X
600-204530-1	Cell19-Square-23-S-2-3-200428	129
600-204530-2	Cell19-Square-93-S-2-3-200428	56 X
600-204530-2	Cell19-Square-93-S-2-3-200428	127
600-204530-3	Cell19-Square-154-S-2-3-200428	93
600-204530-4	Cell18-Square-55-S-2-3-200428	108
600-204530-5	Cell18-Square-35-S-2-3-200428	127
600-204530-6	Cell18-Square-59-S-2-3-200428	71
600-204530-7	Cell18-Square-202-S-2-3-200428	120
600-204530-8	Cell21-Square-14-S-2-3-200428	117
600-204530-9	Cell21-Square-76-S-2-3-200428	101
600-204530-10	Cell21-Square-155-S-2-3-200428	110
600-204530-11	Cell21-Square-47-S-2-3-200428	139
LCS 600-293878/2-A	Lab Control Sample	69
LCSD 600-293878/23-A	Lab Control Sample Dup	88
MB 600-293878/1-A	Method Blank	73

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: MB 600-293639/6
Matrix: Solid
Analysis Batch: 293639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/01/20 08:51	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/01/20 08:51	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/01/20 08:51	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/01/20 08:51	1
Methylene Chloride	0.006116	J	0.0100	0.00219	mg/Kg			05/01/20 08:51	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/01/20 08:51	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/01/20 08:51	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/01/20 08:51	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/01/20 08:51	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/01/20 08:51	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/01/20 08:51	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/20 08:51	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
Chloroform	0.000660	U	0.0100	0.000660	mg/Kg			05/01/20 08:51	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/01/20 08:51	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/01/20 08:51	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
1,2-Dibromoethane	0.00102	U	0.00500	0.00102	mg/Kg			05/01/20 08:51	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/01/20 08:51	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/01/20 08:51	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/01/20 08:51	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/01/20 08:51	1
1,4-Dichlorobenzene	0.000660	U	0.00500	0.000660	mg/Kg			05/01/20 08:51	1
1,2-Dichlorobenzene	0.000800	U	0.00500	0.000800	mg/Kg			05/01/20 08:51	1
1,2,4-Trichlorobenzene	0.00197	U	0.00500	0.00197	mg/Kg			05/01/20 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*		*05/01/20 08:51*	*1*
Dibromofluoromethane	*98*		*68 - 140*		*05/01/20 08:51*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*		*05/01/20 08:51*	*1*
4-Bromofluorobenzene	*104*		*57 - 140*		*05/01/20 08:51*	*1*

Lab Sample ID: LCS 600-293639/3
Matrix: Solid
Analysis Batch: 293639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.0500	0.02949		mg/Kg		59	40 - 148
1,1-Dichloroethene	0.0500	0.03869		mg/Kg		77	62 - 142
trans-1,2-Dichloroethene	0.0500	0.05049		mg/Kg		101	69 - 130
Methyl tert-butyl ether	0.0500	0.05511		mg/Kg		110	63 - 132
Methylene Chloride	0.0500	0.04734		mg/Kg		95	61 - 150
cis-1,2-Dichloroethene	0.0500	0.04828		mg/Kg		97	70 - 130
Carbon tetrachloride	0.0500	0.04751		mg/Kg		95	58 - 130
Benzene	0.0500	0.04833		mg/Kg		97	70 - 131
1,2-Dichloroethane	0.0500	0.04356		mg/Kg		87	58 - 137
Trichloroethene	0.0500	0.05779		mg/Kg		116	63 - 135
1,1,1-Trichloroethane	0.0500	0.04558		mg/Kg		91	59 - 130

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: LCS 600-293639/3
Matrix: Solid
Analysis Batch: 293639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	0.0500	0.04408		mg/Kg		88	63 - 140
1,2-Dichloropropane	0.0500	0.04858		mg/Kg		97	70 - 130
Chloroform	0.0500	0.04545		mg/Kg		91	69 - 130
Toluene	0.0500	0.04899		mg/Kg		98	67 - 130
1,1,2-Trichloroethane	0.0500	0.05295		mg/Kg		106	67 - 134
Tetrachloroethene	0.0500	0.06164		mg/Kg		123	43 - 143
1,2-Dibromoethane	0.0500	0.05513		mg/Kg		110	65 - 136
Ethylbenzene	0.0500	0.05507		mg/Kg		110	66 - 130
m-Xylene & p-Xylene	0.0500	0.04987		mg/Kg		100	64 - 130
Xylenes, Total	0.100	0.1037		mg/Kg		104	63 - 130
o-Xylene	0.0500	0.05380		mg/Kg		108	62 - 130
Styrene	0.0500	0.06313		mg/Kg		126	65 - 133
1,1,2,2-Tetrachloroethane	0.0500	0.03869		mg/Kg		77	61 - 138
1,4-Dichlorobenzene	0.0500	0.04768		mg/Kg		95	65 - 131
1,2-Dichlorobenzene	0.0500	0.04881		mg/Kg		98	61 - 131
1,2,4-Trichlorobenzene	0.0500	0.05682		mg/Kg		114	53 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*98*		*68 - 140*
Toluene-d8 (Surr)	*105*		*50 - 130*
4-Bromofluorobenzene	*101*		*57 - 140*

Lab Sample ID: LCSD 600-293639/4
Matrix: Solid
Analysis Batch: 293639

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
Vinyl chloride	0.0500	0.03132		mg/Kg		63	40 - 148	6	30
1,1-Dichloroethene	0.0500	0.04212		mg/Kg		84	62 - 142	8	30
trans-1,2-Dichloroethene	0.0500	0.05033		mg/Kg		101	69 - 130	0	30
Methyl tert-butyl ether	0.0500	0.05757		mg/Kg		115	63 - 132	4	30
Methylene Chloride	0.0500	0.04709		mg/Kg		94	61 - 150	1	30
cis-1,2-Dichloroethene	0.0500	0.05069		mg/Kg		101	70 - 130	5	30
Carbon tetrachloride	0.0500	0.04991		mg/Kg		100	58 - 130	5	30
Benzene	0.0500	0.05095		mg/Kg		102	70 - 131	5	30
1,2-Dichloroethane	0.0500	0.04578		mg/Kg		92	58 - 137	5	30
Trichloroethene	0.0500	0.06169		mg/Kg		123	63 - 135	7	30
1,1,1-Trichloroethane	0.0500	0.04751		mg/Kg		95	59 - 130	4	30
1,1-Dichloroethane	0.0500	0.04696		mg/Kg		94	63 - 140	6	30
1,2-Dichloropropane	0.0500	0.05142		mg/Kg		103	70 - 130	6	30
Chloroform	0.0500	0.04641		mg/Kg		93	69 - 130	2	30
Toluene	0.0500	0.05072		mg/Kg		101	67 - 130	3	30
1,1,2-Trichloroethane	0.0500	0.05617		mg/Kg		112	67 - 134	6	30
Tetrachloroethene	0.0500	0.06247		mg/Kg		125	43 - 143	1	30
1,2-Dibromoethane	0.0500	0.05880		mg/Kg		118	65 - 136	6	30
Ethylbenzene	0.0500	0.05528		mg/Kg		111	66 - 130	0	30
m-Xylene & p-Xylene	0.0500	0.04948		mg/Kg		99	64 - 130	1	30

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: LCSD 600-293639/4
Matrix: Solid
Analysis Batch: 293639

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
Xylenes, Total			0.100	0.1037		mg/Kg		104	63 - 130	0	30
o-Xylene			0.0500	0.05424		mg/Kg		108	62 - 130	1	30
Styrene			0.0500	0.06228		mg/Kg		125	65 - 133	1	30
1,1,2,2-Tetrachloroethane			0.0500	0.04196		mg/Kg		84	61 - 138	8	30
1,4-Dichlorobenzene			0.0500	0.04721		mg/Kg		94	65 - 131	1	30
1,2-Dichlorobenzene			0.0500	0.04862		mg/Kg		97	61 - 131	0	30
1,2,4-Trichlorobenzene			0.0500	0.05718		mg/Kg		114	53 - 136	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*
Dibromofluoromethane	*103*		*68 - 140*
Toluene-d8 (Surr)	*109*		*50 - 130*
4-Bromofluorobenzene	*106*		*57 - 140*

Lab Sample ID: MB 600-293726/6
Matrix: Solid
Analysis Batch: 293726

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/02/20 11:24	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/02/20 11:24	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/02/20 11:24	1
Methyl tert-butyl ether	0.00183	U	0.00500	0.00183	mg/Kg			05/02/20 11:24	1
Methylene Chloride	0.006407	J	0.0100	0.00219	mg/Kg			05/02/20 11:24	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/02/20 11:24	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/02/20 11:24	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/02/20 11:24	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/02/20 11:24	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/02/20 11:24	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/02/20 11:24	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/02/20 11:24	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/02/20 11:24	1
Chloroform	0.000660	U	0.0100	0.000660	mg/Kg			05/02/20 11:24	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/02/20 11:24	1
1,1,2-Trichloroethane	0.000730	U	0.00500	0.000730	mg/Kg			05/02/20 11:24	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/02/20 11:24	1
1,2-Dibromoethane	0.00102	U	0.00500	0.00102	mg/Kg			05/02/20 11:24	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/02/20 11:24	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/02/20 11:24	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/02/20 11:24	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/02/20 11:24	1
1,4-Dichlorobenzene	0.000660	U	0.00500	0.000660	mg/Kg			05/02/20 11:24	1
1,2-Dichlorobenzene	0.000800	U	0.00500	0.000800	mg/Kg			05/02/20 11:24	1
1,2,4-Trichlorobenzene	0.00197	U	0.00500	0.00197	mg/Kg			05/02/20 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*		*05/02/20 11:24*	*1*
Dibromofluoromethane	*97*		*68 - 140*		*05/02/20 11:24*	*1*

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: MB 600-293726/6
Matrix: Solid
Analysis Batch: 293726

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	111		50 - 130		05/02/20 11:24	1
4-Bromofluorobenzene	110		57 - 140		05/02/20 11:24	1

Lab Sample ID: LCS 600-293726/3
Matrix: Solid
Analysis Batch: 293726

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.0500	0.03367		mg/Kg		67	40 - 148
1,1-Dichloroethene	0.0500	0.03553		mg/Kg		71	62 - 142
trans-1,2-Dichloroethene	0.0500	0.04771		mg/Kg		95	69 - 130
Methyl tert-butyl ether	0.0500	0.05277		mg/Kg		106	63 - 132
Methylene Chloride	0.0500	0.04534		mg/Kg		91	61 - 150
cis-1,2-Dichloroethene	0.0500	0.04792		mg/Kg		96	70 - 130
Carbon tetrachloride	0.0500	0.04582		mg/Kg		92	58 - 130
Benzene	0.0500	0.04743		mg/Kg		95	70 - 131
1,2-Dichloroethane	0.0500	0.04177		mg/Kg		84	58 - 137
Trichloroethene	0.0500	0.05654		mg/Kg		113	63 - 135
1,1,1-Trichloroethane	0.0500	0.04469		mg/Kg		89	59 - 130
1,1-Dichloroethane	0.0500	0.04470		mg/Kg		89	63 - 140
1,2-Dichloropropane	0.0500	0.04803		mg/Kg		96	70 - 130
Chloroform	0.0500	0.04494		mg/Kg		90	69 - 130
Toluene	0.0500	0.04917		mg/Kg		98	67 - 130
1,1,2-Trichloroethane	0.0500	0.04989		mg/Kg		100	67 - 134
Tetrachloroethene	0.0500	0.06008		mg/Kg		120	43 - 143
1,2-Dibromoethane	0.0500	0.05201		mg/Kg		104	65 - 136
Ethylbenzene	0.0500	0.05355		mg/Kg		107	66 - 130
m-Xylene & p-Xylene	0.0500	0.04975		mg/Kg		100	64 - 130
Xylenes, Total	0.100	0.1026		mg/Kg		103	63 - 130
o-Xylene	0.0500	0.05289		mg/Kg		106	62 - 130
Styrene	0.0500	0.06200		mg/Kg		124	65 - 133
1,1,2,2-Tetrachloroethane	0.0500	0.03700		mg/Kg		74	61 - 138
1,4-Dichlorobenzene	0.0500	0.04728		mg/Kg		95	65 - 131
1,2-Dichlorobenzene	0.0500	0.04707		mg/Kg		94	61 - 131
1,2,4-Trichlorobenzene	0.0500	0.05583		mg/Kg		112	53 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	77		61 - 130
Dibromofluoromethane	101		68 - 140
Toluene-d8 (Surr)	110		50 - 130
4-Bromofluorobenzene	106		57 - 140

Lab Sample ID: LCSD 600-293726/4
Matrix: Solid
Analysis Batch: 293726

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
Vinyl chloride	0.0500	0.03156		mg/Kg		63	40 - 148	6	30

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: LCSD 600-293726/4
Matrix: Solid
Analysis Batch: 293726

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
1,1-Dichloroethene			0.0500	0.03327		mg/Kg		67	62 - 142	7	30
trans-1,2-Dichloroethene			0.0500	0.04207		mg/Kg		84	69 - 130	13	30
Methyl tert-butyl ether			0.0500	0.04975		mg/Kg		100	63 - 132	6	30
Methylene Chloride			0.0500	0.04179		mg/Kg		84	61 - 150	8	30
cis-1,2-Dichloroethene			0.0500	0.04463		mg/Kg		89	70 - 130	7	30
Carbon tetrachloride			0.0500	0.04166		mg/Kg		83	58 - 130	10	30
Benzene			0.0500	0.04418		mg/Kg		88	70 - 131	7	30
1,2-Dichloroethane			0.0500	0.04067		mg/Kg		81	58 - 137	3	30
Trichloroethene			0.0500	0.05266		mg/Kg		105	63 - 135	7	30
1,1,1-Trichloroethane			0.0500	0.04047		mg/Kg		81	59 - 130	10	30
1,1-Dichloroethane			0.0500	0.04011		mg/Kg		80	63 - 140	11	30
1,2-Dichloropropane			0.0500	0.04541		mg/Kg		91	70 - 130	6	30
Chloroform			0.0500	0.04182		mg/Kg		84	69 - 130	7	30
Toluene			0.0500	0.04369		mg/Kg		87	67 - 130	12	30
1,1,2-Trichloroethane			0.0500	0.04827		mg/Kg		97	67 - 134	3	30
Tetrachloroethene			0.0500	0.05319		mg/Kg		106	43 - 143	12	30
1,2-Dibromoethane			0.0500	0.05059		mg/Kg		101	65 - 136	3	30
Ethylbenzene			0.0500	0.04795		mg/Kg		96	66 - 130	11	30
m-Xylene & p-Xylene			0.0500	0.04282		mg/Kg		86	64 - 130	15	30
Xylenes, Total			0.100	0.08967		mg/Kg		90	63 - 130	13	30
o-Xylene			0.0500	0.04685		mg/Kg		94	62 - 130	12	30
Styrene			0.0500	0.05402		mg/Kg		108	65 - 133	14	30
1,1,2,2-Tetrachloroethane			0.0500	0.03813		mg/Kg		76	61 - 138	3	30
1,4-Dichlorobenzene			0.0500	0.04316		mg/Kg		86	65 - 131	9	30
1,2-Dichlorobenzene			0.0500	0.04455		mg/Kg		89	61 - 131	6	30
1,2,4-Trichlorobenzene			0.0500	0.05386		mg/Kg		108	53 - 136	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*97*		*68 - 140*
Toluene-d8 (Surr)	*105*		*50 - 130*
4-Bromofluorobenzene	*105*		*57 - 140*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	0.000999	U	0.0333	0.000999	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Anthracene	0.00128	U	0.0333	0.00128	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]anthracene	0.00138	U	0.0333	0.00138	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[b]fluoranthene	0.00172	U	0.0333	0.00172	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[k]fluoranthene	0.00149	U	0.0333	0.00149	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[g,h,i]perylene	0.00507	U	0.0333	0.00507	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Benzo[a]pyrene	0.00161	U	0.0333	0.00161	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Chrysene	0.00102	U	0.0333	0.00102	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Dibenz(a,h)anthracene	0.00363	U	0.0333	0.00363	mg/Kg		05/05/20 08:03	05/06/20 07:25	1

QC Sample Results

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

Job ID: 600-204530-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-293845/1-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	0.00311	U	0.0333	0.00311	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Fluorene	0.00236	U	0.0333	0.00236	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Indeno[1,2,3-cd]pyrene	0.00350	U	0.0333	0.00350	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
2-Methylnaphthalene	0.00274	U	0.0333	0.00274	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Phenanthrene	0.00495	U	0.0333	0.00495	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pyrene	0.00183	U	0.0333	0.00183	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
1-Methylnaphthalene	0.00157	U	0.0333	0.00157	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Naphthalene	0.00135	U	0.0333	0.00135	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Acenaphthene	0.00144	U	0.0333	0.00144	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Atrazine	0.00502	U	0.0333	0.00502	mg/Kg		05/05/20 08:03	05/06/20 07:25	1
Pentachlorophenol	0.00400	U	0.167	0.00400	mg/Kg		05/05/20 08:03	05/06/20 07:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*38 - 130*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Nitrobenzene-d5	*92*		*10 - 155*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Terphenyl-d14	*110*		*53 - 134*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2-Fluorophenol	*98*		*25 - 132*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
2,4,6-Tribromophenol	*58*		*10 - 148*	*05/05/20 08:03*	*05/06/20 07:25*	*1*
Phenol-d5 (Surr)	*83*		*27 - 130*	*05/05/20 08:03*	*05/06/20 07:25*	*1*

Lab Sample ID: LCS 600-293845/2-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.667	0.5186		mg/Kg		78	39 - 130
Anthracene	0.667	0.6980		mg/Kg		105	51 - 130
Benzo[a]anthracene	0.667	0.7441		mg/Kg		112	54 - 130
Benzo[b]fluoranthene	0.667	0.8595		mg/Kg		129	41 - 139
Benzo[k]fluoranthene	0.667	0.7915		mg/Kg		119	42 - 134
Benzo[g,h,i]perylene	0.667	0.7469		mg/Kg		112	38 - 142
Benzo[a]pyrene	0.667	0.7112		mg/Kg		107	44 - 131
Chrysene	0.667	0.7604		mg/Kg		114	52 - 130
Dibenz(a,h)anthracene	0.667	0.7360		mg/Kg		110	40 - 137
Fluoranthene	0.667	0.7534		mg/Kg		113	53 - 130
Fluorene	0.667	0.5893		mg/Kg		88	46 - 130
Indeno[1,2,3-cd]pyrene	0.667	0.7732		mg/Kg		116	35 - 146
2-Methylnaphthalene	0.667	0.5127		mg/Kg		77	43 - 130
Phenanthrene	0.667	0.6682		mg/Kg		100	51 - 130
Pyrene	0.667	0.7264		mg/Kg		109	53 - 130
1-Methylnaphthalene	0.667	0.4654		mg/Kg		70	43 - 130
Naphthalene	0.667	0.4054		mg/Kg		61	40 - 130
Acenaphthene	0.667	0.5042		mg/Kg		76	42 - 130
Atrazine	0.667	0.4546		mg/Kg		68	10 - 140
Pentachlorophenol	1.33	1.046		mg/Kg		78	40 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*38 - 130*

QC Sample Results

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

Job ID: 600-204530-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-293845/2-A
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293845

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	52		10 - 155
Terphenyl-d14	107		53 - 134
2-Fluorophenol	53		25 - 132
2,4,6-Tribromophenol	75		10 - 148
Phenol-d5 (Surr)	45		27 - 130

Lab Sample ID: 600-204530-1 MS
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	0.00624	J	0.881	0.8740		mg/Kg	☼	98	39 - 130
Anthracene	0.00169	U	0.881	0.9677		mg/Kg	☼	110	51 - 130
Benzo[a]anthracene	0.00182	U	0.881	0.9875		mg/Kg	☼	112	54 - 130
Benzo[b]fluoranthene	0.00227	U	0.881	1.130		mg/Kg	☼	128	41 - 139
Benzo[k]fluoranthene	0.00196	U	0.881	1.027		mg/Kg	☼	117	42 - 134
Benzo[g,h,i]perylene	0.00668	U	0.881	1.040		mg/Kg	☼	118	38 - 142
Benzo[a]pyrene	0.00212	U	0.881	0.9181		mg/Kg	☼	104	44 - 131
Chrysene	0.00134	U	0.881	0.9959		mg/Kg	☼	113	52 - 130
Dibenz(a,h)anthracene	0.00478	U	0.881	1.006		mg/Kg	☼	114	40 - 137
Fluoranthene	0.00410	U	0.881	0.9929		mg/Kg	☼	113	53 - 130
Fluorene	0.0286	J	0.881	0.9276		mg/Kg	☼	102	46 - 130
Indeno[1,2,3-cd]pyrene	0.00461	U	0.881	1.106		mg/Kg	☼	126	35 - 146
2-Methylnaphthalene	0.295		0.881	0.9181		mg/Kg	☼	71	43 - 130
Phenanthrene	0.0559		0.881	0.9615		mg/Kg	☼	103	51 - 130
Pyrene	0.00241	U	0.881	1.016		mg/Kg	☼	115	53 - 130
1-Methylnaphthalene	0.196		0.881	0.8921		mg/Kg	☼	79	43 - 130
Naphthalene	0.0555		0.881	0.8581		mg/Kg	☼	91	40 - 130
Acenaphthene	0.00190	U	0.881	0.8981		mg/Kg	☼	102	42 - 130
Atrazine	0.00662	U	0.881	0.4736		mg/Kg	☼	54	10 - 140
Pentachlorophenol	0.00527	U	1.76	1.391		mg/Kg	☼	79	40 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	94		38 - 130
Nitrobenzene-d5	81		10 - 155
Terphenyl-d14	111		53 - 134
2-Fluorophenol	88		25 - 132
2,4,6-Tribromophenol	101		10 - 148
Phenol-d5 (Surr)	78		27 - 130

Lab Sample ID: 600-204530-1 MSD
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	0.00624	J	0.880	0.7491		mg/Kg	☼	84	39 - 130	15	30
Anthracene	0.00169	U	0.880	0.8505		mg/Kg	☼	97	51 - 130	13	30
Benzo[a]anthracene	0.00182	U	0.880	0.9527		mg/Kg	☼	108	54 - 130	4	30

QC Sample Results

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

Job ID: 600-204530-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-204530-1 MSD
Matrix: Solid
Analysis Batch: 293891

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 293845

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene	0.00227	U	0.880	1.017		mg/Kg	☼	116	41 - 139	11	30
Benzo[k]fluoranthene	0.00196	U	0.880	0.8574		mg/Kg	☼	97	42 - 134	18	30
Benzo[g,h,i]perylene	0.00668	U	0.880	0.9470		mg/Kg	☼	108	38 - 142	9	30
Benzo[a]pyrene	0.00212	U	0.880	0.8535		mg/Kg	☼	97	44 - 131	7	30
Chrysene	0.00134	U	0.880	0.9332		mg/Kg	☼	106	52 - 130	7	30
Dibenz(a,h)anthracene	0.00478	U	0.880	0.9407		mg/Kg	☼	107	40 - 137	7	30
Fluoranthene	0.00410	U	0.880	0.9739		mg/Kg	☼	111	53 - 130	2	30
Fluorene	0.0286	J	0.880	0.8627		mg/Kg	☼	95	46 - 130	7	30
Indeno[1,2,3-cd]pyrene	0.00461	U	0.880	1.038		mg/Kg	☼	118	35 - 146	6	30
2-Methylnaphthalene	0.295		0.880	0.8125		mg/Kg	☼	59	43 - 130	12	30
Phenanthrene	0.0559		0.880	0.8965		mg/Kg	☼	96	51 - 130	7	30
Pyrene	0.00241	U	0.880	0.9639		mg/Kg	☼	110	53 - 130	5	30
1-Methylnaphthalene	0.196		0.880	0.7880		mg/Kg	☼	67	43 - 130	12	30
Naphthalene	0.0555		0.880	0.7546		mg/Kg	☼	79	40 - 130	13	30
Acenaphthene	0.00190	U	0.880	0.8076		mg/Kg	☼	92	42 - 130	11	30
Atrazine	0.00662	U	0.880	0.2676	N2	mg/Kg	☼	30	10 - 140	56	30
Pentachlorophenol	0.00527	U	1.76	1.507		mg/Kg	☼	86	40 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*38 - 130*
Nitrobenzene-d5	*63*		*10 - 155*
Terphenyl-d14	*105*		*53 - 134*
2-Fluorophenol	*79*		*25 - 132*
2,4,6-Tribromophenol	*94*		*10 - 148*
Phenol-d5 (Surr)	*76*		*27 - 130*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-293597/3-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293597

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		04/30/20 09:48	04/30/20 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*04/30/20 09:48*	*04/30/20 12:20*	*1*

Lab Sample ID: LCS 600-293597/1-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			5.00	5.562		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*

QC Sample Results

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

Job ID: 600-204530-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 600-293597/2-A
Matrix: Solid
Analysis Batch: 293600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293597

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.539		mg/Kg		111	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*70 - 130*

Lab Sample ID: MB 600-293686/3-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		05/01/20 10:55	05/01/20 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene				*05/01/20 10:55*	*05/01/20 13:20*	*1*

Lab Sample ID: LCS 600-293686/1-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293686

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			5.00	5.730		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*

Lab Sample ID: LCSD 600-293686/2-A
Matrix: Solid
Analysis Batch: 293641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.741		mg/Kg		115	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*70 - 130*

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

Lab Sample ID: MB 600-293878/1-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293878

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		05/05/20 12:09	05/06/20 16:26	1
Oil Range Organics (C28-C35)	4.97	U	4.97	4.97	mg/Kg		05/05/20 12:09	05/06/20 16:26	1

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: MB 600-293878/1-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293878

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		60 - 140	05/05/20 12:09	05/06/20 16:26	1

Lab Sample ID: LCS 600-293878/2-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293878

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.5	80.80		mg/Kg		122	66 - 134		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	69		60 - 140

Lab Sample ID: LCSD 600-293878/23-A
Matrix: Solid
Analysis Batch: 293930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293878

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.4	88.25		mg/Kg		133	66 - 134	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	88		60 - 140

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-293968/1-A
Matrix: Solid
Analysis Batch: 293998

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	40.0	5.34	mg/Kg			05/06/20 18:23	10
Fluoride	6.01	U	20.0	6.01	mg/Kg			05/06/20 18:23	10
Sulfate	9.57	U	50.0	9.57	mg/Kg			05/06/20 18:23	10

Lab Sample ID: LCS 600-293968/2-A
Matrix: Solid
Analysis Batch: 293998

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			2000	1915		mg/Kg		96	90 - 110		
Fluoride			750	781.3		mg/Kg		104	90 - 110		
Sulfate			2000	2113		mg/Kg		106	90 - 110		

QC Sample Results

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

Job ID: 600-204530-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-293968/1-A
Matrix: Solid
Analysis Batch: 293999

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.51	U	20.0	2.51	mg/Kg			05/06/20 18:23	10
Nitrite as N	2.97	U	20.0	2.97	mg/Kg			05/06/20 18:23	10

Lab Sample ID: LCS 600-293968/2-A
Matrix: Solid
Analysis Batch: 293999

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1000	970.1		mg/Kg		97	90 - 110
Nitrite as N	1000	1010		mg/Kg		101	90 - 110

Lab Sample ID: MB 600-294035/1-A
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			05/07/20 10:37	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			05/07/20 10:37	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			05/07/20 10:37	1

Lab Sample ID: LCS 600-294035/2-A
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	186.8		mg/Kg		93	90 - 110
Fluoride	75.0	80.84		mg/Kg		108	90 - 110
Sulfate	200	184.2		mg/Kg		92	90 - 110

Lab Sample ID: 600-204530-2 MS
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.30		136	137.1		mg/Kg	☼	96	80 - 120
Fluoride	8.39		27.1	69.83	N1	mg/Kg	☼	226	80 - 120
Sulfate	147		136	290.0		mg/Kg	☼	106	80 - 120

Lab Sample ID: 600-204530-2 MSD
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.30		136	157.0		mg/Kg	☼	111	80 - 120	14	20
Fluoride	8.39		27.1	69.36	N1	mg/Kg	☼	225	80 - 120	1	20
Sulfate	147		136	327.3	N1	mg/Kg	☼	133	80 - 120	12	20

QC Sample Results

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

Job ID: 600-204530-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204530-11 MS
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell21-Square-47-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.46	J	124	115.7		mg/Kg	☼	91	80 - 120
Fluoride	7.31		24.8	56.38	N1	mg/Kg	☼	198	80 - 120
Sulfate	47.0		124	196.9	N1	mg/Kg	☼	121	80 - 120

Lab Sample ID: 600-204530-11 MSD
Matrix: Solid
Analysis Batch: 294024

Client Sample ID: Cell21-Square-47-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.46	J	124	143.4	N2	mg/Kg	☼	114	80 - 120	21	20
Fluoride	7.31		24.8	83.92	N1 N2	mg/Kg	☼	308	80 - 120	39	20
Sulfate	47.0		124	212.5	N1	mg/Kg	☼	133	80 - 120	8	20

Lab Sample ID: MB 600-294035/1-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			05/07/20 10:37	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			05/07/20 10:37	1

Lab Sample ID: LCS 600-294035/2-A
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.60		mg/Kg		92	90 - 110
Nitrite as N	100	92.61		mg/Kg		93	90 - 110

Lab Sample ID: 600-204530-2 MS
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	8.94		27.1	41.45		mg/Kg	☼	120	80 - 120
Nitrite as N	0.403	U	27.1	26.60		mg/Kg	☼	98	80 - 120

Lab Sample ID: 600-204530-2 MSD
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	8.94		27.1	48.47	N1	mg/Kg	☼	146	80 - 120	16	20
Nitrite as N	0.403	U	27.1	26.54		mg/Kg	☼	98	80 - 120	0	20

QC Sample Results

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

Job ID: 600-204530-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204530-11 MS
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell21-Square-47-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.87		24.8	42.76	N1	mg/Kg	☼	153	80 - 120
Nitrite as N	0.369	U	24.8	23.30		mg/Kg	☼	94	80 - 120

Lab Sample ID: 600-204530-11 MSD
Matrix: Solid
Analysis Batch: 294025

Client Sample ID: Cell21-Square-47-S-2-3-200428
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	4.87		24.8	37.84	N1	mg/Kg	☼	133	80 - 120	12	20
Nitrite as N	0.369	U	24.8	28.98	N2	mg/Kg	☼	117	80 - 120	22	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-469570/1-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0727	U	0.194	0.0727	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Arsenic	0.388	U	0.970	0.388	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Barium	0.485	U	1.94	0.485	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Beryllium	0.0388	U	0.0970	0.0388	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Cadmium	0.0233	U	0.0485	0.0233	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Chromium	0.436	U	0.970	0.436	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Iron	5.82	U	11.6	5.82	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Manganese	0.194	U	0.485	0.194	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Lead	0.121	U	0.291	0.121	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Antimony	0.194	U	0.485	0.194	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Selenium	0.310	U	0.485	0.310	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Thallium	0.194	U	0.485	0.194	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Zinc	1.94	U	4.85	1.94	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Sodium	7.27	U	19.4	7.27	mg/Kg		05/05/20 08:48	05/05/20 18:04	2
Uranium	0.0388	U	0.0970	0.0388	mg/Kg		05/05/20 08:48	05/05/20 18:04	2

Lab Sample ID: LCSSRM 160-469570/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469570

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	32.0	31.75		mg/Kg		99.2	68.4 - 100.3
Arsenic	97.6	96.88		mg/Kg		99.3	70.0 - 130.1
Barium	320	307.6		mg/Kg		96.1	75.0 - 125.0
Beryllium	41.4	39.45		mg/Kg		95.3	75.1 - 125.1
Cadmium	114	104.7		mg/Kg		91.8	75.0 - 125.4
Chromium	147	132.4		mg/Kg		90.0	70.1 - 129.9

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: LCSSRM 160-469570/2-A
Matrix: Solid
Analysis Batch: 469693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469570

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	14100	13710		mg/Kg		97.2	34.8 - 164.5
Manganese	279	269.0		mg/Kg		96.4	73.8 - 125.8
Lead	105	106.2		mg/Kg		101.2	70.5 - 128.6
Antimony	99.4	76.32		mg/Kg		76.8	20.7 - 256.5
Selenium	93.1	96.11		mg/Kg		103.2	64.6 - 135.3
Thallium	104	105.6		mg/Kg		101.5	67.3 - 131.7
Zinc	212	212.0		mg/Kg		100	69.8 - 129.7
Sodium	145	113.0		mg/Kg		77.9	37.4 - 162.1
Uranium	22.5	22.48		mg/Kg		99.9	68.0 - 132.4

Lab Sample ID: 600-204530-1 MS
Matrix: Solid
Analysis Batch: 469789

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 469570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0956	U	24.4	24.14		mg/Kg	☼	99	75 - 125
Arsenic	4.12		122	129.5		mg/Kg	☼	103	75 - 125
Barium	84.3		122	213.8		mg/Kg	☼	106	75 - 125
Beryllium	0.699		12.2	14.29		mg/Kg	☼	111	75 - 125
Cadmium	0.0543	J	122	123.6		mg/Kg	☼	101	75 - 125
Chromium	8.68		122	112.9		mg/Kg	☼	85	75 - 125
Iron	9850		1220	14940	4	mg/Kg	☼	417	75 - 125
Manganese	73.6		122	217.7		mg/Kg	☼	118	75 - 125
Lead	6.37		122	131.0		mg/Kg	☼	102	75 - 125
Antimony	0.255	U ^	61.0	33.24	^ N1	mg/Kg	☼	54	75 - 125
Selenium	0.577	J	61.0	59.90		mg/Kg	☼	97	75 - 125
Thallium	0.255	U	24.4	25.83		mg/Kg	☼	106	75 - 125
Zinc	22.3		122	166.7		mg/Kg	☼	118	75 - 125
Sodium	76.4		1220	1097		mg/Kg	☼	84	75 - 125
Uranium	0.226		122	130.1		mg/Kg	☼	106	75 - 125

Lab Sample ID: 600-204530-1 MSD
Matrix: Solid
Analysis Batch: 469789

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 469570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.0956	U	23.8	23.69		mg/Kg	☼	100	75 - 125	2	30
Arsenic	4.12		119	124.3		mg/Kg	☼	101	75 - 125	4	30
Barium	84.3		119	227.2		mg/Kg	☼	120	75 - 125	6	30
Beryllium	0.699		11.9	13.74		mg/Kg	☼	110	75 - 125	4	30
Cadmium	0.0543	J	119	119.9		mg/Kg	☼	101	75 - 125	3	30
Chromium	8.68		119	108.5		mg/Kg	☼	84	75 - 125	4	30

QC Sample Results

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

Job ID: 600-204530-1

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

Lab Sample ID: 600-204530-1 MSD — **Client Sample ID: Cell19-Square-23-S-2-3-200428**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469789 — **Prep Batch: 469570**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	9850		1190	14880	4	mg/Kg	☼	423	75 - 125	0	30
Manganese	73.6		119	212.4		mg/Kg	☼	117	75 - 125	2	30
Lead	6.37		119	126.6		mg/Kg	☼	101	75 - 125	3	30
Antimony	0.255	U ^	59.4	32.13	^ N1	mg/Kg	☼	54	75 - 125	3	30
Selenium	0.577	J	59.4	57.51		mg/Kg	☼	96	75 - 125	4	30
Thallium	0.255	U	23.8	24.71		mg/Kg	☼	104	75 - 125	4	30
Zinc	22.3		119	162.5		mg/Kg	☼	118	75 - 125	3	30
Sodium	76.4		1190	1051		mg/Kg	☼	82	75 - 125	4	30
Uranium	0.226		119	124.3		mg/Kg	☼	104	75 - 125	5	30

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 160-469585/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469585**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00969	U	0.0291	0.00969	mg/Kg		05/05/20 11:45	05/06/20 11:44	1

Lab Sample ID: LCSSRM 160-469585/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469585**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	7.61	6.487		mg/Kg		85.2	60.1 - 140.6

Lab Sample ID: 600-204530-3 MS — **Client Sample ID: Cell19-Square-154-S-2-3-200428**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469585**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0120	J	0.885	0.8787		mg/Kg	☼	98	80 - 120

Lab Sample ID: 600-204530-3 MSD — **Client Sample ID: Cell19-Square-154-S-2-3-200428**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 469706 — **Prep Batch: 469585**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0120	J	0.836	0.8173		mg/Kg	☼	96	80 - 120	7	30

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 600-294682/1 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 294682

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			05/18/20 10:31	1

QC Sample Results

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

Job ID: 600-204530-1

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 600-294682/2
Matrix: Solid
Analysis Batch: 294682

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	1800	1812		mg/L		101	90 - 110

Lab Sample ID: LB 600-294655/1-A
Matrix: Solid
Analysis Batch: 294682

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	10.0	U	10.0	10.0	mg/L			05/18/20 10:31	1

Lab Sample ID: 600-204530-1 DU
Matrix: Solid
Analysis Batch: 294682

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	203		205.0		mg/L		1	10

Method: 2540B - Percent Moisture

Lab Sample ID: 600-204530-8 DU
Matrix: Solid
Analysis Batch: 293860

Client Sample ID: Cell21-Square-14-S-2-3-200428
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.9		21.1		%		8	20
Percent Solids	77.1		78.9		%		2	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-293900/1-A
Matrix: Solid
Analysis Batch: 293908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		05/05/20 17:31	05/05/20 20:00	1

Lab Sample ID: LCS 600-293900/2-A
Matrix: Solid
Analysis Batch: 293908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1033		mg/Kg		103	90 - 110

Lab Sample ID: MB 600-293989/1-A
Matrix: Solid
Analysis Batch: 294010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		05/06/20 14:16	05/06/20 20:17	1

QC Sample Results

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

Job ID: 600-204530-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 600-293989/2-A
Matrix: Solid
Analysis Batch: 294010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09936		mg/Kg		99	90 - 110

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-294453/1-A
Matrix: Solid
Analysis Batch: 294472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004451	J	0.00500	0.00419	mg/Kg		05/13/20 14:35	05/13/20 18:43	1

Lab Sample ID: LCS 600-294453/2-A
Matrix: Solid
Analysis Batch: 294472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1011		mg/Kg		101	90 - 110

QC Association Summary

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

Job ID: 600-204530-1

GC/MS VOA

Prep Batch: 293583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	5030B	

Analysis Batch: 293639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	8260B	293583
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	8260B	293583
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	8260B	293668
MB 600-293639/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-293639/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-293639/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 293668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	5030B	

Analysis Batch: 293726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8260B	293730
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8260B	293730
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	8260B	293668
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	8260B	293668
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	8260B	293668
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	8260B	293668
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	8260B	293730
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	8260B	293668
MB 600-293726/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-293726/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-293726/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 293730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 293845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3546	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3546	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	3546	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	3546	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	3546	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	3546	

QC Association Summary

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

Job ID: 600-204530-1

GC/MS Semi VOA (Continued)

Prep Batch: 293845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	3546	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	3546	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	3546	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	3546	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	3546	
MB 600-293845/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204530-1 MS	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3546	
600-204530-1 MSD	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3546	

Analysis Batch: 293891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	8270C LL	293845
MB 600-293845/1-A	Method Blank	Total/NA	Solid	8270C LL	293845
LCS 600-293845/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	293845
600-204530-1 MS	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8270C LL	293845
600-204530-1 MSD	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8270C LL	293845

GC VOA

Prep Batch: 293597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	5030B	
MB 600-293597/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 293600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-293597/3-A	Method Blank	Total/NA	Solid	8015B	293597
LCS 600-293597/1-A	Lab Control Sample	Total/NA	Solid	8015B	293597
LCSD 600-293597/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293597

Analysis Batch: 293641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8015B	293597
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8015B	293597
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	8015B	293597
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	8015B	293686

QC Association Summary

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

Job ID: 600-204530-1

GC VOA (Continued)

Analysis Batch: 293641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	8015B	293686
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	8015B	293686
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	8015B	293686
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	8015B	293686
MB 600-293686/3-A	Method Blank	Total/NA	Solid	8015B	293686
LCS 600-293686/1-A	Lab Control Sample	Total/NA	Solid	8015B	293686
LCSD 600-293686/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293686

Prep Batch: 293686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	5030B	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	5030B	
MB 600-293686/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293686/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293686/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 293728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	8015B	293686
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	8015B	293686
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	8015B	293686

GC Semi VOA

Prep Batch: 293878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3546	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3546	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	3546	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	3546	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	3546	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	3546	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	3546	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	3546	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	3546	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	3546	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	3546	
MB 600-293878/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 293930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8015B	293878

QC Association Summary

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

Job ID: 600-204530-1

GC Semi VOA (Continued)

Analysis Batch: 293930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	8015B	293878
MB 600-293878/1-A	Method Blank	Total/NA	Solid	8015B	293878
LCS 600-293878/2-A	Lab Control Sample	Total/NA	Solid	8015B	293878
LCSD 600-293878/23-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293878

Analysis Batch: 294371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8015B	293878
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8015B	293878

HPLC/IC

Leach Batch: 293968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Soluble	Solid	DI Leach	
MB 600-293968/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 293998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Soluble	Solid	300.0	293968
MB 600-293968/1-A	Method Blank	Soluble	Solid	300.0	293968
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	300.0	293968

Analysis Batch: 293999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Soluble	Solid	300.0	293968
MB 600-293968/1-A	Method Blank	Soluble	Solid	300.0	293968
LCS 600-293968/2-A	Lab Control Sample	Soluble	Solid	300.0	293968

Analysis Batch: 294024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-2	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-3	Cell19-Square-154-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-4	Cell18-Square-55-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-4	Cell18-Square-55-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-5	Cell18-Square-35-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-6	Cell18-Square-59-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-7	Cell18-Square-202-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-8	Cell21-Square-14-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-9	Cell21-Square-76-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-10	Cell21-Square-155-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035

QC Association Summary

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

Job ID: 600-204530-1

HPLC/IC (Continued)

Analysis Batch: 294024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11 MS	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11 MSD	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035

Analysis Batch: 294025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-2	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-3	Cell19-Square-154-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-4	Cell18-Square-55-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-5	Cell18-Square-35-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-6	Cell18-Square-59-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-7	Cell18-Square-202-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-8	Cell21-Square-14-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-9	Cell21-Square-76-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-10	Cell21-Square-155-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035
MB 600-294035/1-A	Method Blank	Soluble	Solid	300.0	294035
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	300.0	294035
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11 MS	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035
600-204530-11 MSD	Cell21-Square-47-S-2-3-200428	Soluble	Solid	300.0	294035

Leach Batch: 294035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-2	Cell19-Square-93-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-3	Cell19-Square-154-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-4	Cell18-Square-55-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-5	Cell18-Square-35-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-6	Cell18-Square-59-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-7	Cell18-Square-202-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-8	Cell21-Square-14-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-9	Cell21-Square-76-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-10	Cell21-Square-155-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-11	Cell21-Square-47-S-2-3-200428	Soluble	Solid	DI Leach	
MB 600-294035/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-294035/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-11 MS	Cell21-Square-47-S-2-3-200428	Soluble	Solid	DI Leach	
600-204530-11 MSD	Cell21-Square-47-S-2-3-200428	Soluble	Solid	DI Leach	

Metals

Prep Batch: 469570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3050B	

QC Association Summary

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

Job ID: 600-204530-1

Metals (Continued)

Prep Batch: 469570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	3050B	
MB 160-469570/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-469570/2-A	Lab Control Sample	Total/NA	Solid	3050B	
600-204530-1 MS	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3050B	
600-204530-1 MSD	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3050B	

Prep Batch: 469585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	7471A	
MB 160-469585/1-A	Method Blank	Total/NA	Solid	7471A	
LCSSRM 160-469585/2-A ^5	Lab Control Sample	Total/NA	Solid	7471A	
600-204530-3 MS	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	
600-204530-3 MSD	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	

Analysis Batch: 469693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	6020	469570
MB 160-469570/1-A	Method Blank	Total/NA	Solid	6020	469570
LCSSRM 160-469570/2-A	Lab Control Sample	Total/NA	Solid	6020	469570

Analysis Batch: 469706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	7471A	469585

QC Association Summary

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

Job ID: 600-204530-1

Metals (Continued)

Analysis Batch: 469706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	7471A	469585
MB 160-469585/1-A	Method Blank	Total/NA	Solid	7471A	469585
LCSSRM 160-469585/2-A ^5	Lab Control Sample	Total/NA	Solid	7471A	469585
600-204530-3 MS	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	469585
600-204530-3 MSD	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	7471A	469585

Analysis Batch: 469789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-1 MS	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	6020	469570
600-204530-1 MSD	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	6020	469570

General Chemistry

Analysis Batch: 293860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	2540B	
600-204530-8 DU	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	2540B	

Prep Batch: 293900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	9012B	

QC Association Summary

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

Job ID: 600-204530-1

General Chemistry (Continued)

Prep Batch: 293900 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	9012B	
MB 600-293900/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-293900/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 293908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	9012B	293900
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	9012B	293900
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	9012B	293900
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	9012B	293900
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	9012B	293900
MB 600-293900/1-A	Method Blank	Total/NA	Solid	9012B	293900
LCS 600-293900/2-A	Lab Control Sample	Total/NA	Solid	9012B	293900

Prep Batch: 293989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	9012B	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	9012B	
MB 600-293989/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-293989/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 294010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	9012B	293989
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	9012B	293989
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	9012B	293989
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	9012B	293989
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	9012B	293989
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	9012B	293989
MB 600-293989/1-A	Method Blank	Total/NA	Solid	9012B	293989
LCS 600-293989/2-A	Lab Control Sample	Total/NA	Solid	9012B	293989

Prep Batch: 294453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	Distill/Phenol	
MB 600-294453/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-294453/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

QC Association Summary

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

Job ID: 600-204530-1

General Chemistry

Analysis Batch: 294472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	9066	294453
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	9066	294453
MB 600-294453/1-A	Method Blank	Total/NA	Solid	9066	294453
LCS 600-294453/2-A	Lab Control Sample	Total/NA	Solid	9066	294453

Leach Batch: 294655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-2	Cell19-Square-93-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-3	Cell19-Square-154-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-4	Cell18-Square-55-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-5	Cell18-Square-35-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-6	Cell18-Square-59-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-7	Cell18-Square-202-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-8	Cell21-Square-14-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-9	Cell21-Square-76-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-10	Cell21-Square-155-S-2-3-200428	7 Day Leach	Solid	335.521	
600-204530-11	Cell21-Square-47-S-2-3-200428	7 Day Leach	Solid	335.521	
LB 600-294655/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-204530-1 DU	Cell19-Square-23-S-2-3-200428	7 Day Leach	Solid	335.521	

Analysis Batch: 294682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-2	Cell19-Square-93-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-3	Cell19-Square-154-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-4	Cell18-Square-55-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-5	Cell18-Square-35-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-6	Cell18-Square-59-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-7	Cell18-Square-202-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-8	Cell21-Square-14-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-9	Cell21-Square-76-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-10	Cell21-Square-155-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
600-204530-11	Cell21-Square-47-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655
LB 600-294655/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	294655
MB 600-294682/1	Method Blank	Total/NA	Solid	2540 C-1997	
LCS 600-294682/2	Lab Control Sample	Total/NA	Solid	2540 C-1997	
600-204530-1 DU	Cell19-Square-23-S-2-3-200428	7 Day Leach	Solid	2540 C-1997	294655

Lab Chronicle

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-23-S-2-3-200428
Date Collected: 04/28/20 09:29
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Client Sample ID: Cell19-Square-23-S-2-3-200428
Date Collected: 04/28/20 09:29
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-1
Matrix: Solid
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.30 g	5 mL	293730	05/02/20 12:46	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 14:00	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 11:19	LPL	TAL HOU
Total/NA	Prep	5030B			10.18 g	10 mL	293597	05/01/20 07:56	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 14:31	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 22:38	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 14:07	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:52	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293998	05/07/20 04:42	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	293968	05/06/20 12:52	AAZ	TAL HOU
Soluble	Analysis	300.0		1			293999	05/07/20 04:42	W1N	TAL HOU
Total/NA	Prep	3050B			0.5193 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		2			469789	05/06/20 20:22	FLC	TAL SL
Total/NA	Prep	7471A			0.6494 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:48	LKP	TAL SL
Total/NA	Prep	9012B			0.493 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:34	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:49	AML	TAL HOU

Client Sample ID: Cell19-Square-93-S-2-3-200428
Date Collected: 04/28/20 09:48
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-93-S-2-3-200428
Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.26 g	5 mL	293730	05/02/20 12:46	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 14:23	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 12:29	LPL	TAL HOU
Total/NA	Prep	5030B			9.81 g	10 mL	293597	05/01/20 07:56	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 14:54	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 23:12	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			294371	05/13/20 14:41	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 11:27	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 11:27	W1N	TAL HOU
Total/NA	Prep	3050B			0.5802 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 18:51	LKP	TAL SL
Total/NA	Prep	7471A			0.6714 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:55	LKP	TAL SL
Total/NA	Prep	9012B			0.562 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:35	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:50	AML	TAL HOU

Client Sample ID: Cell19-Square-154-S-2-3-200428
Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Client Sample ID: Cell19-Square-154-S-2-3-200428
Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.53 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 15:31	WS1	TAL HOU
Total/NA	Prep	3546			15.05 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 12:53	LPL	TAL HOU
Total/NA	Prep	5030B			10.51 g	10 mL	293597	05/01/20 07:56	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 15:17	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 23:46	RJV	TAL HOU

Lab Chronicle

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

Job ID: 600-204530-1

Client Sample ID: Cell19-Square-154-S-2-3-200428

Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 12:28	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 12:28	W1N	TAL HOU
Total/NA	Prep	3050B			0.5244 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 18:57	LKP	TAL SL
Total/NA	Prep	7471A			0.6144 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 11:57	LKP	TAL SL
Total/NA	Prep	9012B			0.573 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:37	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.04 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:51	AML	TAL HOU

Client Sample ID: Cell18-Square-55-S-2-3-200428

Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	50 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Client Sample ID: Cell18-Square-55-S-2-3-200428

Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	293583	04/30/20 17:13	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 15:54	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 13:17	LPL	TAL HOU
Total/NA	Prep	5030B			9.65 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 15:41	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 00:19	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 12:49	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 12:49	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		25			294024	05/07/20 13:32	W1N	TAL HOU
Total/NA	Prep	3050B			0.5353 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:24	LKP	TAL SL
Total/NA	Prep	3050B			0.5353 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:16	FLC	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-55-S-2-3-200428 Lab Sample ID: 600-204530-4

Date Collected: 04/28/20 10:56 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.6577 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:06	LKP	TAL SL
Total/NA	Prep	9012B			0.582 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:38	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:52	AML	TAL HOU

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:45	AAZ	TAL HOU

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.91 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293639	05/01/20 16:16	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 13:40	LPL	TAL HOU
Total/NA	Prep	5030B			9.99 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 16:04	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 00:53	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 13:52	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 13:52	W1N	TAL HOU
Total/NA	Prep	3050B			0.5377 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:31	LKP	TAL SL
Total/NA	Prep	3050B			0.5377 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:22	FLC	TAL SL
Total/NA	Prep	7471A			0.6264 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:08	LKP	TAL SL
Total/NA	Prep	9012B			0.510 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:39	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.03 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:54	AML	TAL HOU

Lab Chronicle

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-59-S-2-3-200428
Lab Sample ID: 600-204530-6
Date Collected: 04/28/20 11:47
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Client Sample ID: Cell18-Square-59-S-2-3-200428
Lab Sample ID: 600-204530-6
Date Collected: 04/28/20 11:47
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.90 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 11:46	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 14:04	LPL	TAL HOU
Total/NA	Prep	5030B			10.02 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 16:28	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 01:26	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 14:12	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 14:12	W1N	TAL HOU
Total/NA	Prep	3050B			0.5881 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:38	LKP	TAL SL
Total/NA	Prep	3050B			0.5881 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:29	FLC	TAL SL
Total/NA	Prep	7471A			0.6340 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:10	LKP	TAL SL
Total/NA	Prep	9012B			0.521 g	6.0 mL	293989	05/06/20 14:16	AML	TAL HOU
Total/NA	Analysis	9012B		1			294010	05/06/20 20:40	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:57	AML	TAL HOU

Client Sample ID: Cell18-Square-202-S-2-3-200428
Lab Sample ID: 600-204530-7
Date Collected: 04/28/20 12:12
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Lab Chronicle

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

Job ID: 600-204530-1

Client Sample ID: Cell18-Square-202-S-2-3-200428

Lab Sample ID: 600-204530-7
Date Collected: 04/28/20 12:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.92 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 12:08	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 14:28	LPL	TAL HOU
Total/NA	Prep	5030B			9.80 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 16:51	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 01:59	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 15:24	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 15:24	W1N	TAL HOU
Total/NA	Prep	3050B			0.5234 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:44	LKP	TAL SL
Total/NA	Prep	3050B			0.5234 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:36	FLC	TAL SL
Total/NA	Prep	7471A			0.6317 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:12	LKP	TAL SL
Total/NA	Prep	9012B			0.584 g	6.0 mL	293900	05/05/20 17:31	AML	TAL HOU
Total/NA	Analysis	9012B		1			293908	05/05/20 20:08	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:58	AML	TAL HOU

Client Sample ID: Cell21-Square-14-S-2-3-200428

Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Client Sample ID: Cell21-Square-14-S-2-3-200428

Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 12:31	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 14:52	LPL	TAL HOU
Total/NA	Prep	5030B			10.42 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293641	05/01/20 17:14	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 02:32	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-14-S-2-3-200428
Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 15:45	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 15:45	W1N	TAL HOU
Total/NA	Prep	3050B			0.5578 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:51	LKP	TAL SL
Total/NA	Prep	3050B			0.5578 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:43	FLC	TAL SL
Total/NA	Prep	7471A			0.6500 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:14	LKP	TAL SL
Total/NA	Prep	9012B			0.506 g	6.0 mL	293900	05/05/20 17:31	AML	TAL HOU
Total/NA	Analysis	9012B		1			293908	05/05/20 20:10	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.02 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 18:59	AML	TAL HOU

Client Sample ID: Cell21-Square-76-S-2-3-200428
Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Client Sample ID: Cell21-Square-76-S-2-3-200428
Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 12:53	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 15:16	LPL	TAL HOU
Total/NA	Prep	5030B			9.83 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293728	05/02/20 10:24	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293878	05/05/20 12:09	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 03:05	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 16:05	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 16:05	W1N	TAL HOU
Total/NA	Prep	3050B			0.5415 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 19:58	LKP	TAL SL
Total/NA	Prep	3050B			0.5415 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:49	FLC	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-76-S-2-3-200428 Lab Sample ID: 600-204530-9

Date Collected: 04/28/20 13:12 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 78.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.6389 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:21	LKP	TAL SL
Total/NA	Prep	9012B			0.577 g	6.0 mL	293900	05/05/20 17:31	AML	TAL HOU
Total/NA	Analysis	9012B		1			293908	05/05/20 20:11	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.06 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 19:01	AML	TAL HOU

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.20 g	5 mL	293730	05/02/20 12:46	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 17:45	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 15:40	LPL	TAL HOU
Total/NA	Prep	5030B			9.95 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293728	05/02/20 10:48	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	293878	05/05/20 12:13	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/07/20 03:38	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 16:25	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 16:25	W1N	TAL HOU
Total/NA	Prep	3050B			0.5216 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 20:05	LKP	TAL SL
Total/NA	Prep	3050B			0.5216 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 21:56	FLC	TAL SL
Total/NA	Prep	7471A			0.6464 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:23	LKP	TAL SL
Total/NA	Prep	9012B			0.533 g	6.0 mL	293900	05/05/20 17:31	AML	TAL HOU
Total/NA	Analysis	9012B		1			293908	05/05/20 20:12	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.01 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 19:05	AML	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	294655	05/11/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	294682	05/18/20 10:31	TNL	TAL HOU
Total/NA	Analysis	2540B		1			293860	05/05/20 09:53	AAZ	TAL HOU

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 80.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.18 g	5 mL	293668	05/01/20 09:42	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	293726	05/02/20 13:38	WS1	TAL HOU
Total/NA	Prep	3546			15.00 g	1.0 mL	293845	05/05/20 08:03	EAT	TAL HOU
Total/NA	Analysis	8270C LL		1			293891	05/06/20 16:03	LPL	TAL HOU
Total/NA	Prep	5030B			9.48 g	10 mL	293686	05/01/20 10:55	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	293728	05/02/20 11:11	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	293878	05/05/20 12:16	SMB	TAL HOU
Total/NA	Analysis	8015B		1			293930	05/06/20 18:08	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294024	05/07/20 16:46	W1N	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	294035	05/07/20 09:02	AAZ	TAL HOU
Soluble	Analysis	300.0		1			294025	05/07/20 16:46	W1N	TAL HOU
Total/NA	Prep	3050B			0.5177 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469693	05/05/20 20:11	LKP	TAL SL
Total/NA	Prep	3050B			0.5177 g	50 mL	469570	05/05/20 08:48	DAS	TAL SL
Total/NA	Analysis	6020		20			469789	05/06/20 22:23	FLC	TAL SL
Total/NA	Prep	7471A			0.6389 g	100 mL	469585	05/05/20 11:45	DAS	TAL SL
Total/NA	Analysis	7471A		1			469706	05/06/20 12:24	LKP	TAL SL
Total/NA	Prep	9012B			0.528 g	6.0 mL	293900	05/05/20 17:31	AML	TAL HOU
Total/NA	Analysis	9012B		1			293908	05/05/20 20:13	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			1.00 g	50.0 mL	294453	05/13/20 14:35	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	294472	05/13/20 19:06	AML	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	Oil Range Organics (C28-C35)
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

600-204530 Chain of Custody

urofins | Environment Testing TestAmerica

Client Information	Sampler:	Lab PM: Kudchadkar, Sachin G	COC No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432 298 0376	E-Mail: sachin.kudchadkar@testamericainc.com	Page: Page
Company: ARCADIS U.S., Inc.			Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:	Analysis Requested	
City: Midland	TAT Requested (days): Rush TAT		
State, Zip: TX, 79701			
Phone: 432-227-0266(Tel)	PO #:		
Email: sarah.johnson@arcadis.com	WO #:		
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732		
Site:	SSOW#:		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, 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)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6020-(MOD) Copy Anions	2540_Calc-Total Methods	300_DRESM-288 300_DRESM-288	6A-01-R-Rg-(MOD)(Rev)22					Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N										
Cell19-Square-23-5-2-3-200428	04/28/20	0529	G	Solid			X	X	X	X	X	X	X	X	X					9	
Cell19-Square-43-5-2-3-200428		0948		Solid			X	X	X	X	X	X	X	X	X					9	
Cell19-Square-154-5-2-3-200428		1015		Solid			X	X	X	X	X	X	X	X	X					9	
Cell18-Square-55-5-2-3-200428		1056		Solid			X	X	X	X	X	X	X	X	X					9	
Cell18-Square-35-5-2-3-200428		1117		Solid			X	X	X	X	X	X	X	X	X					9	
Cell18-Square-59-5-2-3-200428		1147		Solid			X	X	X	X	X	X	X	X	X					9	
Cell18-Square-202-5-2-3-200428		1212		Solid			X	X	X	X	X	X	X	X	X					9	
Cell21-Square-14-5-2-3-200428		1250		Solid			X	X	X	X	X	X	X	X	X					9	
Cell21-Square-76-5-2-3-200428		1312		Solid			X	X	X	X	X	X	X	X	X					9	
Cell21-Square-155-5-2-3-200428		1339		Solid			X	X	X	X	X	X	X	X	X					9	
Cell21-Square-47-0ft-5-23-200428	04/28/20	1405	G	Solid			X	X	X	X	X	X	X	X	X					9	

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		04/28/20 1002	ARCADIS		4/30/20 1037	ETA
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:

Ver: 01/16/2019

Loc: 600
204530

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Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 30 10:37

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: ADCads

UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☐YES ☐NO Number of Coolers Received:

Cooler ID	Temp Blank	Trip Blank	Observed Temp (℃)	Therm ID	Therm CF	Corrected Temp (℃)
5049	Y / N	Y / N	5.4	678	-0.1	5.3
7751	Y / N	Y / N	3.5	↓	↓	3.4
5038	Y / N	Y / N	2.8			2.7
5050	Y / N	Y / N	2.4			2.3
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☐YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☐YES	☐NO

COMMENTS:

4/30/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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
Sanchez Jones	5/11/20 17:00	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: 01/16/2019

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Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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:
Sam Jones	5/1/20 17:00	EMA			
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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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sachin Jone	Date/Time: 5/1/20 17:00	Company: EA	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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
Sam Foust	5/1/20 17:00	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: 01/16/2019

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Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44815.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/1/20 17:00	ETA	FE		
FE			Michaela Koenigsfeld	5/2/2020 08:48	ETA SL

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
5310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wastewater, Sample, Groundwater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/6050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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] FE	5/1/20 17:00	EHA	FE		
	Relinquished by: FE	Date/Time	Company	Received by: [signature] Mona Koninings	Date/Time: 5/4/2020 08:45	Company: EHA SL
	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: 06/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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_DI_R_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sam Jone	5/1/20 17:00	ETA	FE		
Relinquished by: FE	Date/Time:	Company	Received by: Michael Cunningham	Date/Time: 5/2/2020 08:48	Company: ETA SPL
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:

Vers 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wwater, Sswater, Ssoil, Ooil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RadDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/1/20 17:00	ETA	FE		
2	FE			[signature]	5/2/2020 08:48	ETA STL
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/5/20 17:00	EIA	FED EX		
FED EX				5/6/2020 0924	EIA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/27/2020			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:	Project #: 60012253			
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 - 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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/5/20 17:00	ETA	FED EX		
FED EX					
				5/6/2020 0924	ETA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020	Analysis Requested		Preservation Codes:
City: Earth City	TAT Requested (days):			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)
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 60012253			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8020/30508_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/5/20 17:00	EIA	FED EX		
FED EX					
				5/6/2020 0924	EIA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/27/2020			
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 #: 60012253			
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=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RaDry_Grind (MOD) Radium-226/228	GA_01_R_RaFill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/5/20 17:00	ETA	FED EX		
FED EX					
				5/6/2020 0924	ETA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/8/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA SRL
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/8/2020			
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 #: 60012253			
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 (Wastewater, Sediment, Drinking Water, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00		FED EX		
Relinquished by: FED EX	Date/Time	Company	Received by: [signature]	Date/Time: 5/7/2020 0920	Company: E&A STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)
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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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
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Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	
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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Sachin Jose	Date/Time: 5/6/20 16:00	Company: ETA	Received by: FED EX	Date/Time:	Company
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/7/2020 0920	Company: ETA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Eurofins TestAmerica, Houston
8310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing America

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Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)
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			Preservation Code:							
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA SLC
3						

Custody Seals Intact: ☐ Yes ☐ 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: 600-204530-1

Login Number: 204530 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	5.3,3.4,2.7,2.3
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204530-1

Login Number: 204530
List Number: 2
Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis
List Creation: 05/04/20 02:51 PM

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

eurofins | Environment Testing America



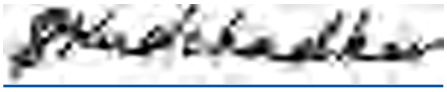
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204530-2
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:
6/1/2020 3:01:28 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-204530-2

Table of Contents

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Case Narrative

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

Job ID: 600-204530-2

Job ID: 600-204530-2

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204530-2

Receipt

The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3°C, 2.7°C, 3.4°C and 5.3°C

Gamma Spectroscopy

Method GA_01_R_Ra: Gamma Prep Batch 160-471355Any 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. 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 AnalyteTh-234 Pa-234Th-234 U-238Pb-210 Po-210Pb-210 Bi-210Cs-137 Ba-137mPb-212 Po-216Xe-131m Xe-131Sb-125 Te-125mAg-108m Ag-108Rh-106 Ru-106Pb-212 Th-228Pb-212 Ra-224U-235 Th-231Ac-228 Th-232Ac-228 Ra-228Th-227 Ra-223Th-227 Ac-227Th-227 Bi-211Th-227 Pb-211Bi-214 Ra-226Cell19-Square-23-S-2-3-200428 (600-204530-1), Cell19-Square-93-S-2-3-200428 (600-204530-2), Cell19-Square-154-S-2-3-200428 (600-204530-3), Cell18-Square-55-S-2-3-200428 (600-204530-4), Cell18-Square-35-S-2-3-200428 (600-204530-5), Cell18-Square-59-S-2-3-200428 (600-204530-6), Cell18-Square-202-S-2-3-200428 (600-204530-7), Cell21-Square-14-S-2-3-200428 (600-204530-8), Cell21-Square-76-S-2-3-200428 (600-204530-9), Cell21-Square-155-S-2-3-200428 (600-204530-10), Cell21-Square-47-S-2-3-200428 (600-204530-11), (LCS 160-469940/2-A), (MB 160-469940/1-A) and (600-204530-B-1-C DU)

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

Method Summary

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

Job ID: 600-204530-2

Method	Method Description	Protocol	Laboratory
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

Protocol References:

DOE = U.S. Department of Energy

None = None

Laboratory References:

TAL SL = Eurofins TestAmerica, 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: 600-204530-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204530-1	Cell19-Square-23-S-2-3-200428	Solid	04/28/20 09:29	04/30/20 10:37	
600-204530-2	Cell19-Square-93-S-2-3-200428	Solid	04/28/20 09:48	04/30/20 10:37	
600-204530-3	Cell19-Square-154-S-2-3-200428	Solid	04/28/20 10:15	04/30/20 10:37	
600-204530-4	Cell18-Square-55-S-2-3-200428	Solid	04/28/20 10:56	04/30/20 10:37	
600-204530-5	Cell18-Square-35-S-2-3-200428	Solid	04/28/20 11:17	04/30/20 10:37	
600-204530-6	Cell18-Square-59-S-2-3-200428	Solid	04/28/20 11:47	04/30/20 10:37	
600-204530-7	Cell18-Square-202-S-2-3-200428	Solid	04/28/20 12:12	04/30/20 10:37	
600-204530-8	Cell21-Square-14-S-2-3-200428	Solid	04/28/20 12:50	04/30/20 10:37	
600-204530-9	Cell21-Square-76-S-2-3-200428	Solid	04/28/20 13:12	04/30/20 10:37	
600-204530-10	Cell21-Square-155-S-2-3-200428	Solid	04/28/20 13:39	04/30/20 10:37	
600-204530-11	Cell21-Square-47-S-2-3-200428	Solid	04/28/20 14:05	04/30/20 10:37	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-23-S-2-3-200428 Lab Sample ID: 600-204530-1

Date Collected: 04/28/20 09:29 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.575**		0.154	0.165	1.00	0.132	pCi/g	05/10/20 18:14	05/31/20 11:39	1
Radium-228	**0.406**		0.259	0.263		0.337	pCi/g	05/10/20 18:14	05/31/20 11:39	1
Combined Radium 226 + 228	**0.981**		0.301	0.310		0.337	pCi/g	05/10/20 18:14	05/31/20 11:39	1

Client Sample ID: Cell19-Square-93-S-2-3-200428 Lab Sample ID: 600-204530-2

Date Collected: 04/28/20 09:48 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	0.0413	U	0.140	0.140	1.00	0.332	pCi/g	05/10/20 18:14	05/31/20 11:40	1
Radium-228	**0.250**		0.116	0.118		0.239	pCi/g	05/10/20 18:14	05/31/20 11:40	1
Combined Radium 226 + 228	0.291	U	0.182	0.183		0.332	pCi/g	05/10/20 18:14	05/31/20 11:40	1

Client Sample ID: Cell19-Square-154-S-2-3-200428 Lab Sample ID: 600-204530-3

Date Collected: 04/28/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.386**		0.129	0.135	1.00	0.128	pCi/g	05/10/20 18:14	05/31/20 11:41	1
Radium-228	0.142	U	0.181	0.182		0.228	pCi/g	05/10/20 18:14	05/31/20 11:41	1
Combined Radium 226 + 228	**0.528**		0.222	0.227		0.228	pCi/g	05/10/20 18:14	05/31/20 11:41	1

Client Sample ID: Cell18-Square-55-S-2-3-200428 Lab Sample ID: 600-204530-4

Date Collected: 04/28/20 10:56 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**0.945**		0.215	0.236	1.00	0.166	pCi/g	05/10/20 18:14	05/31/20 12:52	1
Radium-228	0.223	U	0.142	0.144		0.388	pCi/g	05/10/20 18:14	05/31/20 12:52	1
Combined Radium 226 + 228	**1.17**		0.258	0.276		0.388	pCi/g	05/10/20 18:14	05/31/20 12:52	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.33**		0.211	0.251	1.00	0.121	pCi/g	05/10/20 18:14	05/31/20 12:53	1
Radium-228	0.190	U	0.325	0.326		0.360	pCi/g	05/10/20 18:14	05/31/20 12:53	1
Combined Radium 226 + 228	**1.52**		0.387	0.411		0.360	pCi/g	05/10/20 18:14	05/31/20 12:53	1

Client Sample ID: Cell18-Square-59-S-2-3-200428 Lab Sample ID: 600-204530-6

Date Collected: 04/28/20 11:47 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.06**		0.234	0.259	1.00	0.186	pCi/g	05/10/20 18:14	05/31/20 12:54	1
Radium-228	-0.0739	U	0.235	0.235		0.455	pCi/g	05/10/20 18:14	05/31/20 12:54	1
Combined Radium 226 + 228	**0.987**		0.332	0.350		0.455	pCi/g	05/10/20 18:14	05/31/20 12:54	1

Client Sample ID: Cell18-Square-202-S-2-3-200428 Lab Sample ID: 600-204530-7

Date Collected: 04/28/20 12:12 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.06**		0.201	0.229	1.00	0.142	pCi/g	05/10/20 18:14	05/31/20 13:43	1
Radium-228	0.271	U	0.165	0.168		0.306	pCi/g	05/10/20 18:14	05/31/20 13:43	1
Combined Radium 226 + 228	**1.33**		0.260	0.284		0.306	pCi/g	05/10/20 18:14	05/31/20 13:43	1

Client Sample ID: Cell21-Square-14-S-2-3-200428 Lab Sample ID: 600-204530-8

Date Collected: 04/28/20 12:50 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.59**		0.266	0.311	1.00	0.188	pCi/g	05/10/20 18:14	05/31/20 13:43	1
Radium-228	**0.440**		0.169	0.175		0.120	pCi/g	05/10/20 18:14	05/31/20 13:43	1
Combined Radium 226 + 228	**2.03**		0.315	0.357		0.188	pCi/g	05/10/20 18:14	05/31/20 13:43	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-76-S-2-3-200428 Lab Sample ID: 600-204530-9

Date Collected: 04/28/20 13:12 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.14**		0.251	0.277	1.00	0.196	pCi/g	05/10/20 18:14	05/31/20 13:45	1
Radium-228	0.0458	U	0.420	0.420		0.519	pCi/g	05/10/20 18:14	05/31/20 13:45	1
Combined Radium 226 + 228	**1.18**		0.489	0.503		0.519	pCi/g	05/10/20 18:14	05/31/20 13:45	1

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37

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**		0.215	0.254	1.00	0.141	pCi/g	05/10/20 18:14	05/31/20 13:52	1
Radium-228	0.0619	U	0.233	0.233		0.311	pCi/g	05/10/20 18:14	05/31/20 13:52	1
Combined Radium 226 + 228	**1.36**		0.317	0.345		0.311	pCi/g	05/10/20 18:14	05/31/20 13:52	1

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37

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	**1.25**		0.214	0.251	1.00	0.156	pCi/g	05/10/20 18:14	05/31/20 13:53	1
Radium-228	**0.267**		0.178	0.180		0.181	pCi/g	05/10/20 18:14	05/31/20 13:53	1
Combined Radium 226 + 228	**1.51**		0.278	0.309		0.181	pCi/g	05/10/20 18:14	05/31/20 13:53	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Sample Results

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

Job ID: 600-204530-2

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-469940/1-A
Matrix: Solid
Analysis Batch: 471599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469940

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.1179	U	0.135	0.135	1.00	0.357	pCi/g	05/10/20 18:14	05/31/20 11:33	1
Radium-228	-0.1402	U	0.314	0.315		0.364	pCi/g	05/10/20 18:14	05/31/20 11:33	1
Combined Radium 226 + 228	-0.2581	U	0.342	0.343		0.364	pCi/g	05/10/20 18:14	05/31/20 11:33	1

Lab Sample ID: LCS 160-469940/2-A
Matrix: Solid
Analysis Batch: 471581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469940

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.5	97.89		10.3		1.13	pCi/g	101	87 - 116		
Cesium-137			27.1	26.97		2.89		0.219	pCi/g	100	87 - 120		
Cobalt-60			10.2	9.719		1.03		0.0436	pCi/g	96	87 - 115		

Lab Sample ID: 600-204530-1 DU
Matrix: Solid
Analysis Batch: 471599

Client Sample ID: Cell19-Square-23-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 469940

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.575			0.6266		0.173	1.00	0.122	pCi/g			0.15	1
Radium-228	0.406			0.6161		0.226		0.170	pCi/g			0.43	1
Combined Radium 226 + 228	0.981			1.243		0.285		0.170	pCi/g			0.44	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Rad

Leach Batch: 469758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	Dry and Grind	
600-204530-1 DU	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	Dry and Grind	

Prep Batch: 469940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758
MB 160-469940/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-469940/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-204530-1 DU	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	Fill_Geo-21	469758

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-23-S-2-3-200428 Lab Sample ID: 600-204530-1

Date Collected: 04/28/20 09:29 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			362 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 11:39	KLS	TAL SL

Client Sample ID: Cell19-Square-93-S-2-3-200428 Lab Sample ID: 600-204530-2

Date Collected: 04/28/20 09:48 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			385.1 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471583	05/31/20 11:40	AJD	TAL SL

Client Sample ID: Cell19-Square-154-S-2-3-200428 Lab Sample ID: 600-204530-3

Date Collected: 04/28/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			391.6 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471575	05/31/20 11:41	KLS	TAL SL

Client Sample ID: Cell18-Square-55-S-2-3-200428 Lab Sample ID: 600-204530-4

Date Collected: 04/28/20 10:56 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			357 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 12:52	KLS	TAL SL

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			334.1 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471599	05/31/20 12:53	KLS	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-59-S-2-3-200428 Lab Sample ID: 600-204530-6

Date Collected: 04/28/20 11:47 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			304.7 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471575	05/31/20 12:54	KLS	TAL SL

Client Sample ID: Cell18-Square-202-S-2-3-200428 Lab Sample ID: 600-204530-7

Date Collected: 04/28/20 12:12 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			335 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471582	05/31/20 13:43	KLS	TAL SL

Client Sample ID: Cell21-Square-14-S-2-3-200428 Lab Sample ID: 600-204530-8

Date Collected: 04/28/20 12:50 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			313.2 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471599	05/31/20 13:43	KLS	TAL SL

Client Sample ID: Cell21-Square-76-S-2-3-200428 Lab Sample ID: 600-204530-9

Date Collected: 04/28/20 13:12 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			302.2 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471575	05/31/20 13:45	KLS	TAL SL

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			321.7 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471581	05/31/20 13:52	AJD	TAL SL

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-47-S-2-3-200428 **Lab Sample ID: 600-204530-11**
Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	469758	05/06/20 19:05	PMS	TAL SL
Total/NA	Prep	Fill_Geo-21			321.6 g	1.0 g	469940	05/10/20 18:14	MLG	TAL SL
Total/NA	Analysis	GA-01-R		1			471583	05/31/20 13:53	AJD	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-2
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

600-204530 Chain of Custody

urofins | Environment Testing TestAmerica

Client Information	Sampler: Jerry S. Longwell	Lab PM: Kudchadkar, Sachin G	Lab No: 600-76333-20582.1
Client Contact: Sarah Johnson	Phone: 432 298 0376	E-Mail: sachin.kudchadkar@testamericainc.com	Page: Page
Company: ARCADIS U.S., Inc.			Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:		
City: Midland	TAT Requested (days): Rush TAT		
State, Zip: TX, 79701			
Phone: 432-227-0266(Tel)	PO #:		
Email: sarah.johnson@arcadis.com	WO #:		
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732		
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)	TPH- GRO- 8015	TPH-DRO/ORO-8015	BTEX-8260B	Chloride- 300	6020/7471- Sb, As, Ba, Be, cd, Cr, Cu, Fe, Pb, Mg, Hg, Se, Ag, Tl, Zn	6020-CMOD) Copy Analysis	2540_C(2)-Total Method	300_DRESM-28D_300_DRESM_8021B	6A_01_B_Rg_(MOD)_Rec_2540_C_2011	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N						
Cell19-Square-23-S-2-3-200428	04/28/20	0529	G	Solid			X	X	X	X	X	X	X	X	X		
Cell19-Square-43-S-2-3-200428		0948		Solid			X	X	X	X	X	X	X	X	X		
Cell19-Square-154-S-2-3-200428		1015		Solid			X	X	X	X	X	X	X	X	X		
Cell18-Square-55-S-2-3-200428		1056		Solid			X	X	X	X	X	X	X	X	X		
Cell18-Square-35-S-2-3-200428		1117		Solid			X	X	X	X	X	X	X	X	X		
Cell18-Square-59-S-2-3-200428		1147		Solid			X	X	X	X	X	X	X	X	X		
Cell18-Square-202-S-2-3-200428		1212		Solid			X	X	X	X	X	X	X	X	X		
Cell21-Square-14-S-2-3-200428		1250		Solid			X	X	X	X	X	X	X	X	X		
Cell21-Square-76-S-2-3-200428		1312		Solid			X	X	X	X	X	X	X	X	X		
Cell21-Square-155-S-2-3-200428		1339		Solid			X	X	X	X	X	X	X	X	X		
Cell21-Square-47-~~07~~05-23-200428	04/28/20	1405	G	Solid			X	X	X	X	X	X	X	X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: Jerry S. Longwell	Date/Time: 04/28/20 1002	Company: ARCADIS	Received by:	Date/Time: 4/30/20 1037	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: 01/16/2019

Loc: 600
204530

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Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 30 10:37

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: ADCads

UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☐YES ☐NO Number of Coolers Received:

Cooler ID	Temp Blank	Trip Blank	Observed Temp (℃)	Therm ID	Therm CF	Corrected Temp (℃)
5049	Y / N	Y / N	5.4	678	-0.1	5.3
7751	Y / N	Y / N	3.5	↓	↓	3.4
5038	Y / N	Y / N	2.8			2.7
5050	Y / N	Y / N	2.4			2.3
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☐YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☐NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☐YES	☐NO

COMMENTS:

4/30/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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
Sandra Jones	5/11/20 17:00	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: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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:
Sam Jones	5/1/20 17:00	EMA			
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/1/20 17:00	EA			
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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
Sam Jones	5/1/20 17:00	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: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44815.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/1/20 17:00	ETA	FE		
FE			Michaela Reinhinger	5/2/2020 08:48	ETA SL

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
5310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s)	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wastewater, Sample, Groundwater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/6050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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] FE	5/1/20 17:00	EHA	FE		
2	FE	Date/Time	Company	[signature] Mara Koninhings	5/4/2020 08:45	EHA SL
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

Ver: 06/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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=wastes/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_DI_R_RaDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	1	
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sam Jones	5/1/20 17:00	ETA	FE		
Relinquished by: FE	Date/Time:	Company	Received by: Michael Cunningham	Date/Time: 5/2/2020 08:48	Company: ETA SFL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-44615.2
Client Contact: Shipping/Receiving	Phone	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Wwater, Sswater, Ssoil, Ooil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RadDry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	1	
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/1/20 17:00	ETA	FE		
2	FE			[signature]	5/2/2020 08:48	ETA STL
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/4/2020			
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 #: 60012253			
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 (Water, Solid, Oil/waste, BT=Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: Sandra Jones	Date/Time: 5/5/20 17:00	Company: EJA	Received by: FED EX	Date/Time:	Company		
Relinquished by: FED EX	Date/Time:	Company	Received by:	Date/Time: 5/6/2020 0924	Company: EJA STL		
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/27/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
Preservation Code:										
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Jones	5/5/20 17:00	ETA	FED EX		
FED EX					
				5/6/2020 0924	ETA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020	Analysis Requested		Preservation Codes:
City: Earth City	TAT Requested (days):			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)
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 60012253			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8020/30508_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Fonseca	5/5/20 17:00	EIA	FED EX		
FED EX					
				5/6/2020 0924	EIA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44642.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North	Due Date Requested: 5/27/2020			
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 #: 60012253			
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=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	GA_01_R_RaDry_Grind (MOD) Radium-226/228	GA_01_R_RaFill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-23-S-2-3-200428 (600-204530-1)	4/28/20	09:29 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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	Sandra Jones	5/5/20 17:00	ETA	FED EX		
2	FED EX					
3					5/6/2020 0924	ETA STL
4						

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North	Due Date Requested: 5/8/2020			
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 #: 60012253			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA SFC
3						

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

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-1
Address: 13715 Rider Trail North,	Due Date Requested: 5/8/2020			
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 #: 60012253			
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 (Wastewater, Sediment, Drinking Water, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00		FED EX		
Relinquished by: FED EX	Date/Time	Company	Received by: [signature]	Date/Time: 5/7/2020 0920	Company: E&A STL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell19-Square-93-S-2-3-200428 (600-204530-2)	4/28/20	09:48 Central		Solid			X	X	1	
Cell19-Square-154-S-2-3-200428 (600-204530-3)	4/28/20	10:15 Central		Solid			X	X	1	
Cell18-Square-55-S-2-3-200428 (600-204530-4)	4/28/20	10:56 Central		Solid			X	X	1	
Cell18-Square-35-S-2-3-200428 (600-204530-5)	4/28/20	11:17 Central		Solid			X	X	1	
Cell18-Square-59-S-2-3-200428 (600-204530-6)	4/28/20	11:47 Central		Solid			X	X	1	
Cell21-Square-202-S-2-3-200428 (600-204530-7)	4/28/20	12:12 Central		Solid			X	X	1	
Cell21-Square-14-S-2-3-200428 (600-204530-8)	4/28/20	12:50 Central		Solid			X	X	1	
Cell21-Square-76-S-2-3-200428 (600-204530-9)	4/28/20	13:12 Central		Solid			X	X	1	
Cell21-Square-155-S-2-3-200428 (600-204530-10)	4/28/20	13:39 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0940	ETA STL
3						

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
8310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-44666.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sachin.kudchadkar@testamericainc.com	State of Origin: Texas	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 600-204530-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/4/2020			
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 #: 60012253			
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	GA_01_R_Ra/Fill_Geo_21 (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Cell21-Square-47-S-2-3-200428 (600-204530-11)	4/28/20	14:05 Central		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

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]	5/6/20 16:00	ETA	FED EX		
2	FED EX			[signature]	5/7/2020 0920	ETA SLC
3						

Custody Seals Intact: ☐ Yes ☐ 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: 600-204530-2

Login Number: 204530 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	5.3,3.4,2.7,2.3
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204530-2

Login Number: 204530 **List Source: Eurofins TestAmerica, St. Louis**
List Number: 2 **List Creation: 05/04/20 02:51 PM**
Creator: Korrinhizer, Micha L

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

eurofins | Environment Testing America



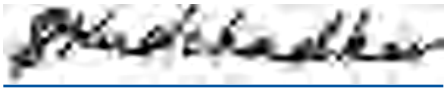
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204530-3
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:
6/10/2020 5:06:13 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
sachin.kudchadkar@testamericainc.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: 600-204530-3

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Case Narrative

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

Job ID: 600-204530-3

Job ID: 600-204530-3

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204530-3

Comments
No additional comments.

Receipt
The samples were received on 4/30/2020 10:37 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.3º C, 2.7º C, 3.4º C and 5.3º C.

GC Semi VOA
Method 8082: Surrogate recovery for the following samples were outside control limits: Cell21-Square-14-S-2-3-200428 (600-204530-8) and Cell21-Square-76-S-2-3-200428 (600-204530-9). 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.

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

Organic Prep
Method 3546: The following samples required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: Cell19-Square-154-S-2-3-200428 (600-204530-3), Cell21-Square-14-S-2-3-200428 (600-204530-8), Cell21-Square-76-S-2-3-200428 (600-204530-9) and Cell21-Square-47-S-2-3-200428 (600-204530-11).

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

Released to Imaging: 5/25/2022 8:55:33 AM

Method Summary

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

Job ID: 600-204530-3

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

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

Job ID: 600-204530-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204530-1	Cell19-Square-23-S-2-3-200428	Solid	04/28/20 09:29	04/30/20 10:37	
600-204530-2	Cell19-Square-93-S-2-3-200428	Solid	04/28/20 09:48	04/30/20 10:37	
600-204530-3	Cell19-Square-154-S-2-3-200428	Solid	04/28/20 10:15	04/30/20 10:37	
600-204530-4	Cell18-Square-55-S-2-3-200428	Solid	04/28/20 10:56	04/30/20 10:37	
600-204530-5	Cell18-Square-35-S-2-3-200428	Solid	04/28/20 11:17	04/30/20 10:37	
600-204530-6	Cell18-Square-59-S-2-3-200428	Solid	04/28/20 11:47	04/30/20 10:37	
600-204530-7	Cell18-Square-202-S-2-3-200428	Solid	04/28/20 12:12	04/30/20 10:37	
600-204530-8	Cell21-Square-14-S-2-3-200428	Solid	04/28/20 12:50	04/30/20 10:37	
600-204530-9	Cell21-Square-76-S-2-3-200428	Solid	04/28/20 13:12	04/30/20 10:37	
600-204530-10	Cell21-Square-155-S-2-3-200428	Solid	04/28/20 13:39	04/30/20 10:37	
600-204530-11	Cell21-Square-47-S-2-3-200428	Solid	04/28/20 14:05	04/30/20 10:37	

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-23-S-2-3-200428
Lab Sample ID: 600-204530-1
Date Collected: 04/28/20 09:29
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00211	U	0.0220	0.00211	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1221	0.0114	U	0.0220	0.0114	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1232	0.00882	U	0.0220	0.00882	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1242	0.00163	U	0.0220	0.00163	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1248	0.00328	U	0.0220	0.00328	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1254	0.00291	U	0.0220	0.00291	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1
PCB-1260	0.0178	U	0.0220	0.0178	mg/Kg	☼	06/01/20 10:01	06/02/20 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*127*		*10 - 150*	*06/01/20 10:01*	*06/02/20 13:23*	*1*
DCB Decachlorobiphenyl	*61*		*10 - 150*	*06/01/20 10:01*	*06/02/20 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	H	0.01	0.01	SU			06/08/20 12:57	1

Client Sample ID: Cell19-Square-93-S-2-3-200428
Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00216	U	0.0226	0.00216	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1221	0.0117	U	0.0226	0.0117	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1232	0.00907	U	0.0226	0.00907	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1242	0.00168	U	0.0226	0.00168	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1248	0.00337	U	0.0226	0.00337	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1254	0.00299	U	0.0226	0.00299	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1
PCB-1260	0.0183	U	0.0226	0.0183	mg/Kg	☼	06/01/20 10:01	06/02/20 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*10 - 150*	*06/01/20 10:01*	*06/02/20 13:48*	*1*
DCB Decachlorobiphenyl	*84*		*10 - 150*	*06/01/20 10:01*	*06/02/20 13:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.5	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell19-Square-154-S-2-3-200428
Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00175	U	0.0183	0.00175	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1221	0.00944	U	0.0183	0.00944	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1232	0.00733	U	0.0183	0.00733	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1242	0.00136	U	0.0183	0.00136	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1248	0.00273	U	0.0183	0.00273	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1254	0.00242	U	0.0183	0.00242	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1
PCB-1260	0.0148	U	0.0183	0.0148	mg/Kg	☼	06/01/20 10:01	06/02/20 17:12	1

Client Sample Results

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

Job ID: 600-204530-3

Client Sample ID: Cell19-Square-154-S-2-3-200428

Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		10 - 150	06/01/20 10:01	06/02/20 17:12	1
DCB Decachlorobiphenyl	133		10 - 150	06/01/20 10:01	06/02/20 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	H	0.01	0.01	SU			06/08/20 12:57	1

Client Sample ID: Cell18-Square-55-S-2-3-200428

Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00197	U	0.0205	0.00197	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1221	0.0106	U	0.0205	0.0106	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1232	0.00824	U	0.0205	0.00824	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1242	0.00152	U	0.0205	0.00152	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1248	0.00306	U	0.0205	0.00306	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1254	0.00272	U	0.0205	0.00272	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1
PCB-1260	0.0166	U	0.0205	0.0166	mg/Kg	☼	06/01/20 10:01	06/02/20 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	50		10 - 150	06/01/20 10:01	06/02/20 17:37	1
DCB Decachlorobiphenyl	55		10 - 150	06/01/20 10:01	06/02/20 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell18-Square-35-S-2-3-200428

Lab Sample ID: 600-204530-5
Date Collected: 04/28/20 11:17
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00202	U	0.0211	0.00202	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1221	0.0109	U	0.0211	0.0109	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1232	0.00847	U	0.0211	0.00847	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1242	0.00157	U	0.0211	0.00157	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1248	0.00315	U	0.0211	0.00315	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1254	0.00280	U	0.0211	0.00280	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1
PCB-1260	0.0171	U	0.0211	0.0171	mg/Kg	☼	06/01/20 10:01	06/02/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		10 - 150	06/01/20 10:01	06/02/20 18:03	1
DCB Decachlorobiphenyl	101		10 - 150	06/01/20 10:01	06/02/20 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample Results

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

Job ID: 600-204530-3

Client Sample ID: Cell18-Square-59-S-2-3-200428

Lab Sample ID: 600-204530-6
Date Collected: 04/28/20 11:47
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00209	U	0.0218	0.00209	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1221	0.0113	U	0.0218	0.0113	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1232	0.00876	U	0.0218	0.00876	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1242	0.00162	U	0.0218	0.00162	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1248	0.00326	U	0.0218	0.00326	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1254	0.00289	U	0.0218	0.00289	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1
PCB-1260	0.0176	U	0.0218	0.0176	mg/Kg	☼	06/01/20 10:01	06/02/20 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*10 - 150*	*06/01/20 10:01*	*06/02/20 18:28*	*1*
DCB Decachlorobiphenyl	*63*		*10 - 150*	*06/01/20 10:01*	*06/02/20 18:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell18-Square-202-S-2-3-200428

Lab Sample ID: 600-204530-7
Date Collected: 04/28/20 12:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 69.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00229	U	0.0239	0.00229	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1221	0.0124	U	0.0239	0.0124	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1232	0.00959	U	0.0239	0.00959	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1242	0.00177	U	0.0239	0.00177	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1248	0.00356	U	0.0239	0.00356	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1254	0.00316	U	0.0239	0.00316	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1
PCB-1260	0.0193	U	0.0239	0.0193	mg/Kg	☼	06/01/20 10:01	06/02/20 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*10 - 150*	*06/01/20 10:01*	*06/02/20 18:54*	*1*
DCB Decachlorobiphenyl	*102*		*10 - 150*	*06/01/20 10:01*	*06/02/20 18:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.2	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell21-Square-14-S-2-3-200428

Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00208	U	0.0217	0.00208	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1221	0.0112	U	0.0217	0.0112	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1232	0.00869	U	0.0217	0.00869	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1242	0.00161	U	0.0217	0.00161	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1248	0.00323	U	0.0217	0.00323	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1254	0.00287	U	0.0217	0.00287	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1
PCB-1260	0.0175	U	0.0217	0.0175	mg/Kg	☼	06/01/20 10:01	06/02/20 19:19	1

Client Sample Results

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

Job ID: 600-204530-3

Client Sample ID: Cell21-Square-14-S-2-3-200428

Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*10 - 150*	*06/01/20 10:01*	*06/02/20 19:19*	*1*
DCB Decachlorobiphenyl	*154*	*X*	*10 - 150*	*06/01/20 10:01*	*06/02/20 19:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell21-Square-76-S-2-3-200428

Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00205	U	0.0214	0.00205	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1221	0.0110	U	0.0214	0.0110	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1232	0.00857	U	0.0214	0.00857	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1242	0.00159	U	0.0214	0.00159	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1248	0.00318	U	0.0214	0.00318	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1254	0.00283	U	0.0214	0.00283	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1
PCB-1260	0.0173	U	0.0214	0.0173	mg/Kg	☼	06/01/20 10:01	06/02/20 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*115*		*10 - 150*	*06/01/20 10:01*	*06/02/20 19:45*	*1*
DCB Decachlorobiphenyl	*155*	*X*	*10 - 150*	*06/01/20 10:01*	*06/02/20 19:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6	H	0.01	0.01	SU			06/09/20 11:34	1

Client Sample ID: Cell21-Square-155-S-2-3-200428

Lab Sample ID: 600-204530-10
Date Collected: 04/28/20 13:39
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00190	U	0.0199	0.00190	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1221	0.0103	U	0.0199	0.0103	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1232	0.00798	U	0.0199	0.00798	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1242	0.00148	U	0.0199	0.00148	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1248	0.00296	U	0.0199	0.00296	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1254	0.00263	U	0.0199	0.00263	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1
PCB-1260	0.0161	U	0.0199	0.0161	mg/Kg	☼	06/01/20 10:01	06/02/20 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*10 - 150*	*06/01/20 10:01*	*06/02/20 20:11*	*1*
DCB Decachlorobiphenyl	*99*		*10 - 150*	*06/01/20 10:01*	*06/02/20 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1	H	0.01	0.01	SU			06/08/20 12:57	1

Client Sample Results

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

Job ID: 600-204530-3

Client Sample ID: Cell21-Square-47-S-2-3-200428
Date Collected: 04/28/20 14:05
Date Received: 04/30/20 10:37

Lab Sample ID: 600-204530-11
Matrix: Solid
Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00199	U	0.0207	0.00199	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1221	0.0107	U	0.0207	0.0107	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1232	0.00832	U	0.0207	0.00832	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1242	0.00154	U	0.0207	0.00154	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1248	0.00309	U	0.0207	0.00309	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1254	0.00274	U	0.0207	0.00274	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1
PCB-1260	0.0168	U	0.0207	0.0168	mg/Kg	☼	06/01/20 10:01	06/02/20 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*10 - 150*	*06/01/20 10:01*	*06/02/20 20:36*	*1*
DCB Decachlorobiphenyl	*135*		*10 - 150*	*06/01/20 10:01*	*06/02/20 20:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**	**H**	0.01	0.01	SU			06/09/20 11:34	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Surrogate Summary

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

Job ID: 600-204530-3

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-204530-1	Cell19-Square-23-S-2-3-200428	127	61
600-204530-2	Cell19-Square-93-S-2-3-200428	62	84
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	75	92
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	114	106
600-204530-3	Cell19-Square-154-S-2-3-200428	98	133
600-204530-4	Cell18-Square-55-S-2-3-200428	50	55
600-204530-5	Cell18-Square-35-S-2-3-200428	79	101
600-204530-6	Cell18-Square-59-S-2-3-200428	58	63
600-204530-7	Cell18-Square-202-S-2-3-200428	78	102
600-204530-8	Cell21-Square-14-S-2-3-200428	121	154 X
600-204530-9	Cell21-Square-76-S-2-3-200428	115	155 X
600-204530-10	Cell21-Square-155-S-2-3-200428	70	99
600-204530-11	Cell21-Square-47-S-2-3-200428	102	135
LCS 600-295538/2-A	Lab Control Sample	92	96
MB 600-295538/1-A	Method Blank	89	93

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC Sample Results

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

Job ID: 600-204530-3

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

Lab Sample ID: MB 600-295538/1-A
Matrix: Solid
Analysis Batch: 295643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 295538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00160	U	0.0167	0.00160	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1221	0.00863	U	0.0167	0.00863	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1232	0.00670	U	0.0167	0.00670	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1242	0.00124	U	0.0167	0.00124	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1248	0.00249	U	0.0167	0.00249	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1254	0.00221	U	0.0167	0.00221	mg/Kg		06/01/20 10:01	06/02/20 11:15	1
PCB-1260	0.0135	U	0.0167	0.0135	mg/Kg		06/01/20 10:01	06/02/20 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*10 - 150*	*06/01/20 10:01*	*06/02/20 11:15*	*1*
DCB Decachlorobiphenyl	*93*		*10 - 150*	*06/01/20 10:01*	*06/02/20 11:15*	*1*

Lab Sample ID: LCS 600-295538/2-A
Matrix: Solid
Analysis Batch: 295643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 295538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.1686		mg/Kg		101	42 - 130
PCB-1260	0.167	0.1372		mg/Kg		82	59 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*10 - 150*
DCB Decachlorobiphenyl	*96*		*10 - 150*

Lab Sample ID: 600-204530-2 MS
Matrix: Solid
Analysis Batch: 295643

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 295538

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.00216	U	0.226	0.1950		mg/Kg	☼	86	42 - 130
PCB-1260	0.0183	U	0.226	0.1681		mg/Kg	☼	74	59 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*10 - 150*
DCB Decachlorobiphenyl	*92*		*10 - 150*

Lab Sample ID: 600-204530-2 MSD
Matrix: Solid
Analysis Batch: 295643

Client Sample ID: Cell19-Square-93-S-2-3-200428
Prep Type: Total/NA
Prep Batch: 295538

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.00216	U	0.226	0.2424		mg/Kg	☼	107	42 - 130	22	30
PCB-1260	0.0183	U	0.226	0.1867		mg/Kg	☼	83	59 - 135	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*114*		*10 - 150*
DCB Decachlorobiphenyl	*106*		*10 - 150*

QC Sample Results

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

Job ID: 600-204530-3

Method: 9045D - pH

Lab Sample ID: 600-204530-8 DU
Matrix: Solid
Analysis Batch: 296171

Client Sample ID: Cell21-Square-14-S-2-3-200428
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.6	H		8.6		SU				0.6	1

QC Association Summary

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

Job ID: 600-204530-3

GC Semi VOA

Prep Batch: 295538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	3546	
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3546	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	3546	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	3546	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	3546	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	3546	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	3546	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	3546	
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	3546	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	3546	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	3546	
MB 600-295538/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-295538/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3546	
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	3546	

Analysis Batch: 295643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	8082	295538
MB 600-295538/1-A	Method Blank	Total/NA	Solid	8082	295538
LCS 600-295538/2-A	Lab Control Sample	Total/NA	Solid	8082	295538
600-204530-2 MS	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8082	295538
600-204530-2 MSD	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	8082	295538

General Chemistry

Analysis Batch: 296088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-1	Cell19-Square-23-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-3	Cell19-Square-154-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-10	Cell21-Square-155-S-2-3-200428	Total/NA	Solid	9045D	
LCS 600-296088/1	Lab Control Sample	Total/NA	Solid	9045D	

Analysis Batch: 296171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-2	Cell19-Square-93-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-4	Cell18-Square-55-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-5	Cell18-Square-35-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-6	Cell18-Square-59-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-7	Cell18-Square-202-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-8	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	9045D	

QC Association Summary

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

Job ID: 600-204530-3

General Chemistry (Continued)

Analysis Batch: 296171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204530-9	Cell21-Square-76-S-2-3-200428	Total/NA	Solid	9045D	
600-204530-11	Cell21-Square-47-S-2-3-200428	Total/NA	Solid	9045D	
LCS 600-296171/1	Lab Control Sample	Total/NA	Solid	9045D	
600-204530-8 DU	Cell21-Square-14-S-2-3-200428	Total/NA	Solid	9045D	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell19-Square-23-S-2-3-200428 Lab Sample ID: 600-204530-1
Date Collected: 04/28/20 09:29 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.09 g	20 mL	296088	06/08/20 12:57	AAZ	TAL HOU

Client Sample ID: Cell19-Square-23-S-2-3-200428 Lab Sample ID: 600-204530-1
Date Collected: 04/28/20 09:29 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 75.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 13:23	JAL	TAL HOU

Client Sample ID: Cell19-Square-93-S-2-3-200428 Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.03 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell19-Square-93-S-2-3-200428 Lab Sample ID: 600-204530-2
Date Collected: 04/28/20 09:48 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 73.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 13:48	JAL	TAL HOU

Client Sample ID: Cell19-Square-154-S-2-3-200428 Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.19 g	20 mL	296088	06/08/20 12:57	AAZ	TAL HOU

Client Sample ID: Cell19-Square-154-S-2-3-200428 Lab Sample ID: 600-204530-3
Date Collected: 04/28/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 17:12	JAL	TAL HOU

Client Sample ID: Cell18-Square-55-S-2-3-200428 Lab Sample ID: 600-204530-4
Date Collected: 04/28/20 10:56 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.00 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell18-Square-55-S-2-3-200428 Lab Sample ID: 600-204530-4

Date Collected: 04/28/20 10:56 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 17:37	JAL	TAL HOU

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.15 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell18-Square-35-S-2-3-200428 Lab Sample ID: 600-204530-5

Date Collected: 04/28/20 11:17 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 18:03	JAL	TAL HOU

Client Sample ID: Cell18-Square-59-S-2-3-200428 Lab Sample ID: 600-204530-6

Date Collected: 04/28/20 11:47 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.20 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell18-Square-59-S-2-3-200428 Lab Sample ID: 600-204530-6

Date Collected: 04/28/20 11:47 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 76.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 18:28	JAL	TAL HOU

Client Sample ID: Cell18-Square-202-S-2-3-200428 Lab Sample ID: 600-204530-7

Date Collected: 04/28/20 12:12 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.12 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Lab Chronicle

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

Job ID: 600-204530-3

Client Sample ID: Cell18-Square-202-S-2-3-200428
Lab Sample ID: 600-204530-7
Date Collected: 04/28/20 12:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 69.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 18:54	JAL	TAL HOU

Client Sample ID: Cell21-Square-14-S-2-3-200428
Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.20 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell21-Square-14-S-2-3-200428
Lab Sample ID: 600-204530-8
Date Collected: 04/28/20 12:50
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 19:19	JAL	TAL HOU

Client Sample ID: Cell21-Square-76-S-2-3-200428
Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.07 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell21-Square-76-S-2-3-200428
Lab Sample ID: 600-204530-9
Date Collected: 04/28/20 13:12
Matrix: Solid
Date Received: 04/30/20 10:37
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 19:45	JAL	TAL HOU

Client Sample ID: Cell21-Square-155-S-2-3-200428
Lab Sample ID: 600-204530-10
Date Collected: 04/28/20 13:39
Matrix: Solid
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.18 g	20 mL	296088	06/08/20 12:57	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell21-Square-155-S-2-3-200428 Lab Sample ID: 600-204530-10

Date Collected: 04/28/20 13:39 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 20:11	JAL	TAL HOU

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045D		1	20.20 g	20 mL	296171	06/09/20 11:34	AAZ	TAL HOU

Client Sample ID: Cell21-Square-47-S-2-3-200428 Lab Sample ID: 600-204530-11

Date Collected: 04/28/20 14:05 **Matrix: Solid**
Date Received: 04/30/20 10:37 **Percent Solids: 80.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	295538	06/01/20 10:01	EAT	TAL HOU
Total/NA	Analysis	8082		1			295643	06/02/20 20:36	JAL	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204530-3
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	pH

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204530-3

Login Number: 204530 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	5.3,3.4,2.7,2.3
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.	N/A	Check done at department level as required.

eurofins | Environment Testing America



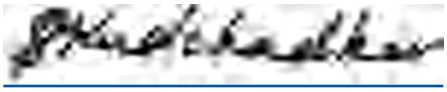
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-207351-1
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:
7/14/2020 8:48:01 AM

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

LINKS
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-207351-1

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Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

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

Job ID: 600-207351-1

Job ID: 600-207351-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-207351-1

Comments
No additional comments.

Receipt
The samples were received on 6/27/2020 11:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

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

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

GC Semi VOA
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.

Industrial Hygiene
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.

Released to Imaging: 5/25/2022 8:55:33 AM

Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

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

Job ID: 600-207351-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-207351-1	Cell 20-Square 152-S-2-3200625	Solid	06/25/20 10:15	06/27/20 11:15	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Solid	06/25/20 10:50	06/27/20 11:15	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Solid	06/25/20 11:40	06/27/20 11:15	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Solid	06/25/20 12:00	06/27/20 11:15	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Solid	06/25/20 12:25	06/27/20 11:15	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Solid	06/25/20 12:50	06/27/20 11:15	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Solid	06/25/20 13:15	06/27/20 11:15	
600-207351-8	Cell 20-Treatment-S-6-200626	Solid	06/26/20 08:45	06/27/20 11:15	
600-207351-9	Cell 19-Treatment-S-6-200626	Solid	06/26/20 09:05	06/27/20 11:15	
600-207351-10	Cell 18-Treatment-S-6-200626	Solid	06/26/20 09:40	06/27/20 11:15	
600-207351-11	Cell 17-Treatment-S-6-200626	Solid	06/26/20 09:55	06/27/20 11:15	
600-207351-12	Cell 21-Treatment-S-6-200626	Solid	06/26/20 10:30	06/27/20 11:15	
600-207351-13	Cell 25-Treatment-S-6-200626	Solid	06/26/20 10:50	06/27/20 11:15	
600-207351-14	Cell 26-Treatment-S-6-200626	Solid	06/26/20 11:15	06/27/20 11:15	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square 152-S-2-3200625 Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 71.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000843	U	0.00669	0.000843	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Toluene	0.00185	U	0.00669	0.00185	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
o-Xylene	0.00151	U	0.00669	0.00151	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Ethylbenzene	0.00136	U	0.00669	0.00136	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
Xylenes, Total	0.00151	U	0.00669	0.00151	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1
m-Xylene & p-Xylene	0.00203	U	0.00669	0.00203	mg/Kg	☼	06/27/20 14:45	06/27/20 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 130*	*06/27/20 14:45*	*06/27/20 18:36*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*06/27/20 14:45*	*06/27/20 18:36*	*1*
Toluene-d8 (Surr)	*85*		*50 - 130*	*06/27/20 14:45*	*06/27/20 18:36*	*1*
4-Bromofluorobenzene	*93*		*57 - 140*	*06/27/20 14:45*	*06/27/20 18:36*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.759	U	1.30	0.759	mg/Kg	☼	06/30/20 08:00	06/30/20 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*70 - 130*	*06/30/20 08:00*	*06/30/20 11:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.31**	**J**	6.95	2.38	mg/Kg	☼	06/30/20 07:34	07/02/20 00:00	1
C28-C36	6.95	U	6.95	6.95	mg/Kg	☼	06/30/20 07:34	07/02/20 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*135*		*60 - 140*	*06/30/20 07:34*	*07/02/20 00:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.58**	**J**	5.59	0.746	mg/Kg	☼		07/10/20 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.4**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**71.6**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 19-Square 82-S-2-32-00625 Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 70.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000956	U	0.00758	0.000956	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Toluene	0.00209	U	0.00758	0.00209	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
o-Xylene	0.00171	U	0.00758	0.00171	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Ethylbenzene	0.00155	U	0.00758	0.00155	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
Xylenes, Total	0.00171	U	0.00758	0.00171	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1
m-Xylene & p-Xylene	0.00231	U	0.00758	0.00231	mg/Kg	☼	06/27/20 14:45	06/27/20 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 130*	*06/27/20 14:45*	*06/27/20 19:00*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 19-Square 82-S-2-32-00625 Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 70.4**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*94*		*68 - 140*	*06/27/20 14:45*	*06/27/20 19:00*	*1*
Toluene-d8 (Surr)	*85*		*50 - 130*	*06/27/20 14:45*	*06/27/20 19:00*	*1*
4-Bromofluorobenzene	*90*		*57 - 140*	*06/27/20 14:45*	*06/27/20 19:00*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.820	U	1.40	0.820	mg/Kg	☼	06/30/20 08:00	06/30/20 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*89*		*70 - 130*	*06/30/20 08:00*	*06/30/20 11:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.10**	**J**	7.09	2.42	mg/Kg	☼	06/30/20 07:34	07/02/20 00:33	1
C28-C36	**11.4**		7.09	7.09	mg/Kg	☼	06/30/20 07:34	07/02/20 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*140*		*60 - 140*	*06/30/20 07:34*	*07/02/20 00:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.50**	**J**	5.68	0.758	mg/Kg	☼		07/10/20 19:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.6**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**70.4**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 18-Square 31-S-2-3-200625 Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 76.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000851	U	0.00675	0.000851	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Toluene	0.00186	U	0.00675	0.00186	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
o-Xylene	0.00153	U	0.00675	0.00153	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Ethylbenzene	0.00138	U	0.00675	0.00138	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
Xylenes, Total	0.00153	U	0.00675	0.00153	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1
m-Xylene & p-Xylene	0.00205	U	0.00675	0.00205	mg/Kg	☼	06/30/20 10:59	06/30/20 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 130*	*06/30/20 10:59*	*06/30/20 12:11*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*06/30/20 10:59*	*06/30/20 12:11*	*1*
Toluene-d8 (Surr)	*85*		*50 - 130*	*06/30/20 10:59*	*06/30/20 12:11*	*1*
4-Bromofluorobenzene	*95*		*57 - 140*	*06/30/20 10:59*	*06/30/20 12:11*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.752	U	1.28	0.752	mg/Kg	☼	06/30/20 08:00	06/30/20 12:24	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 31-S-2-3-200625 — Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 76.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*06/30/20 08:00*	*06/30/20 12:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.24	U	6.54	2.24	mg/Kg	☼	06/30/20 07:34	07/02/20 01:06	1
C28-C36	**13.6**		6.54	6.54	mg/Kg	☼	06/30/20 07:34	07/02/20 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*72*		*60 - 140*	*06/30/20 07:34*	*07/02/20 01:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		5.26	0.703	mg/Kg	☼		07/10/20 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.0**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**76.0**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 17-Square 46-S-2-3-200625 — Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 79.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000738	U	0.00586	0.000738	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Toluene	0.00162	U	0.00586	0.00162	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
o-Xylene	0.00132	U	0.00586	0.00132	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Ethylbenzene	0.00120	U	0.00586	0.00120	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
Xylenes, Total	0.00132	U	0.00586	0.00132	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1
m-Xylene & p-Xylene	0.00178	U	0.00586	0.00178	mg/Kg	☼	06/30/20 10:59	06/30/20 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*	*06/30/20 10:59*	*06/30/20 12:34*	*1*
Dibromofluoromethane	*94*		*68 - 140*	*06/30/20 10:59*	*06/30/20 12:34*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*06/30/20 10:59*	*06/30/20 12:34*	*1*
4-Bromofluorobenzene	*90*		*57 - 140*	*06/30/20 10:59*	*06/30/20 12:34*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.743	U	1.27	0.743	mg/Kg	☼	06/30/20 08:00	06/30/20 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*06/30/20 08:00*	*06/30/20 12:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.14	U	6.25	2.14	mg/Kg	☼	06/30/20 07:34	07/02/20 01:40	1
C28-C36	6.25	U	6.25	6.25	mg/Kg	☼	06/30/20 07:34	07/02/20 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*77*		*60 - 140*	*06/30/20 07:34*	*07/02/20 01:40*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 17-Square 46-S-2-3-200625
Lab Sample ID: 600-207351-4
Date Collected: 06/25/20 12:00
Matrix: Solid
Date Received: 06/27/20 11:15
Percent Solids: 79.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**367**		10.0	1.34	mg/Kg	☼		07/10/20 15:15	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.1**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**79.9**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 21-Square 73-S-2-3-200625
Lab Sample ID: 600-207351-5
Date Collected: 06/25/20 12:25
Matrix: Solid
Date Received: 06/27/20 11:15
Percent Solids: 70.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000956	U	0.00759	0.000956	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Toluene	0.00209	U	0.00759	0.00209	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
o-Xylene	0.00171	U	0.00759	0.00171	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Ethylbenzene	0.00155	U	0.00759	0.00155	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
Xylenes, Total	0.00171	U	0.00759	0.00171	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1
m-Xylene & p-Xylene	0.00231	U	0.00759	0.00231	mg/Kg	☼	06/30/20 10:59	06/30/20 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*	*06/30/20 10:59*	*06/30/20 12:58*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*06/30/20 10:59*	*06/30/20 12:58*	*1*
Toluene-d8 (Surr)	*84*		*50 - 130*	*06/30/20 10:59*	*06/30/20 12:58*	*1*
4-Bromofluorobenzene	*95*		*57 - 140*	*06/30/20 10:59*	*06/30/20 12:58*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.853	U	1.46	0.853	mg/Kg	☼	06/30/20 08:00	06/30/20 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*70 - 130*	*06/30/20 08:00*	*06/30/20 13:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.01**		7.02	2.40	mg/Kg	☼	06/30/20 07:34	07/02/20 02:13	1
C28-C36	7.02	U	7.02	7.02	mg/Kg	☼	06/30/20 07:34	07/02/20 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*60 - 140*	*06/30/20 07:34*	*07/02/20 02:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.04**	**J**	5.64	0.754	mg/Kg	☼		07/10/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.1**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**70.9**		1.0	1.0	%			06/29/20 10:38	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Square 25-S-2-3-200625 Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 78.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000796	U	0.00632	0.000796	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Toluene	0.00174	U	0.00632	0.00174	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
o-Xylene	0.00143	U	0.00632	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Ethylbenzene	0.00129	U	0.00632	0.00129	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
Xylenes, Total	0.00143	U	0.00632	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1
m-Xylene & p-Xylene	0.00192	U	0.00632	0.00192	mg/Kg	☼	06/30/20 10:59	06/30/20 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*	*06/30/20 10:59*	*06/30/20 13:21*	*1*
Dibromofluoromethane	*98*		*68 - 140*	*06/30/20 10:59*	*06/30/20 13:21*	*1*
Toluene-d8 (Surr)	*84*		*50 - 130*	*06/30/20 10:59*	*06/30/20 13:21*	*1*
4-Bromofluorobenzene	*92*		*57 - 140*	*06/30/20 10:59*	*06/30/20 13:21*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.734	U	1.25	0.734	mg/Kg	☼	06/30/20 08:00	06/30/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*06/30/20 08:00*	*06/30/20 13:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.15	U	6.30	2.15	mg/Kg	☼	06/30/20 07:34	07/02/20 02:47	1
C28-C36	6.30	U	6.30	6.30	mg/Kg	☼	06/30/20 07:34	07/02/20 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*70*		*60 - 140*	*06/30/20 07:34*	*07/02/20 02:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.77**	**J**	5.07	0.676	mg/Kg	☼		07/10/20 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.1**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**78.9**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 26-Square 66-S-2-3-200625 Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 76.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000882	U	0.00700	0.000882	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Toluene	0.00193	U	0.00700	0.00193	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
o-Xylene	0.00158	U	0.00700	0.00158	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Ethylbenzene	0.00143	U	0.00700	0.00143	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
Xylenes, Total	0.00158	U	0.00700	0.00158	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1
m-Xylene & p-Xylene	0.00213	U	0.00700	0.00213	mg/Kg	☼	06/30/20 10:59	06/30/20 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*	*06/30/20 10:59*	*06/30/20 13:45*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Square 66-S-2-3-200625 Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 76.6**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*98*		*68 - 140*	*06/30/20 10:59*	*06/30/20 13:45*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*06/30/20 10:59*	*06/30/20 13:45*	*1*
4-Bromofluorobenzene	*95*		*57 - 140*	*06/30/20 10:59*	*06/30/20 13:45*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.745	U	1.27	0.745	mg/Kg	☼	06/30/20 08:00	06/30/20 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*06/30/20 08:00*	*06/30/20 14:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.23	U	6.51	2.23	mg/Kg	☼	06/30/20 07:34	07/02/20 03:20	1
C28-C36	6.51	U	6.51	6.51	mg/Kg	☼	06/30/20 07:34	07/02/20 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*73*		*60 - 140*	*06/30/20 07:34*	*07/02/20 03:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.81**	**J**	5.22	0.697	mg/Kg	☼		07/10/20 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.4**		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	**76.6**		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 20-Treatment-S-6-200626 Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 95.2**

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.600	U	1.02	0.600	mg/Kg	☼	06/30/20 08:00	06/30/20 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*06/30/20 08:00*	*06/30/20 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13.2**		5.24	1.79	mg/Kg	☼	06/30/20 07:34	07/02/20 05:01	1
C28-C36	**63.5**		5.24	5.24	mg/Kg	☼	06/30/20 07:34	07/02/20 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*79*		*60 - 140*	*06/30/20 07:34*	*07/02/20 05:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.23**		4.20	0.561	mg/Kg	☼		07/10/20 13:54	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Treatment-S-6-200626 Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 95.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.8		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	95.2		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 19-Treatment-S-6-200626 Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 97.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.625	U	1.07	0.625	mg/Kg	☼	06/30/20 08:00	06/30/20 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*06/30/20 08:00*	*06/30/20 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25.7		5.14	1.76	mg/Kg	☼	06/30/20 07:34	07/02/20 05:34	1
C28-C36	125		5.14	5.14	mg/Kg	☼	06/30/20 07:34	07/02/20 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*112*		*60 - 140*	*06/30/20 07:34*	*07/02/20 05:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.38	J	4.12	0.550	mg/Kg	☼		07/10/20 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	97.0		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 18-Treatment-S-6-200626 Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 98.3

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.634	U	1.08	0.634	mg/Kg	☼	06/30/20 08:00	06/30/20 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*70 - 130*	*06/30/20 08:00*	*06/30/20 15:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42.7		5.06	1.73	mg/Kg	☼	06/30/20 07:34	07/02/20 06:08	1
C28-C36	173		5.06	5.06	mg/Kg	☼	06/30/20 07:34	07/02/20 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*60 - 140*	*06/30/20 07:34*	*07/02/20 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.29	J	4.07	0.543	mg/Kg	☼		07/10/20 14:35	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Treatment-S-6-200626 Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 98.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.3		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 17-Treatment-S-6-200626 Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 98.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☼	06/30/20 08:00	06/30/20 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*06/30/20 08:00*	*06/30/20 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26.9		5.09	1.74	mg/Kg	☼	06/30/20 07:34	07/02/20 06:41	1
C28-C36	111		5.09	5.09	mg/Kg	☼	06/30/20 07:34	07/02/20 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*60 - 140*	*06/30/20 07:34*	*07/02/20 06:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.7		4.08	0.545	mg/Kg	☼		07/10/20 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.0		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 21-Treatment-S-6-200626 Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 98.3

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☼	06/30/20 08:00	06/30/20 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*06/30/20 08:00*	*06/30/20 16:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	118		10.1	3.46	mg/Kg	☼	06/30/20 07:34	07/03/20 00:40	2
C28-C36	429		10.1	10.1	mg/Kg	☼	06/30/20 07:34	07/03/20 00:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*60 - 140*	*06/30/20 07:34*	*07/03/20 00:40*	*2*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.74	J	4.07	0.543	mg/Kg	☼		07/10/20 12:43	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Treatment-S-6-200626 Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 98.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.7		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	98.3		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 25-Treatment-S-6-200626 Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 97.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.598	U	1.02	0.598	mg/Kg	☼	06/30/20 08:00	06/30/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*06/30/20 08:00*	*06/30/20 17:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.74	U	5.09	1.74	mg/Kg	☼	06/30/20 07:34	07/02/20 07:46	1
C28-C36	5.09	U	5.09	5.09	mg/Kg	☼	06/30/20 07:34	07/02/20 07:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*60 - 140*	*06/30/20 07:34*	*07/02/20 07:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		4.09	0.546	mg/Kg	☼		07/10/20 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	97.7		1.0	1.0	%			06/29/20 10:38	1

Client Sample ID: Cell 26-Treatment-S-6-200626 Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15 Matrix: Solid
Date Received: 06/27/20 11:15 Percent Solids: 97.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.584	U	0.997	0.584	mg/Kg	☼	06/30/20 08:00	06/30/20 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*70 - 130*	*06/30/20 08:00*	*06/30/20 18:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.74	U	5.08	1.74	mg/Kg	☼	06/30/20 09:18	07/02/20 08:18	1
C28-C36	5.08	U	5.08	5.08	mg/Kg	☼	06/30/20 09:18	07/02/20 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*60 - 140*	*06/30/20 09:18*	*07/02/20 08:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.57	J	4.09	0.546	mg/Kg	☼		07/10/20 14:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 26-Treatment-S-6-200626
Lab Sample ID: 600-207351-14
Date Collected: 06/26/20 11:15
Matrix: Solid
Date Received: 06/27/20 11:15
Percent Solids: 97.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		1.0	1.0	%			06/29/20 10:38	1
Percent Solids	97.9		1.0	1.0	%			06/29/20 10:38	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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

Surrogate Summary

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

Job ID: 600-207351-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-207351-1	Cell 20-Square 152-S-2-3200625	101	95	85	93
600-207351-2	Cell 19-Square 82-S-2-32-00625	101	94	85	90
600-207351-3	Cell 18-Square 31-S-2-3-200625	105	95	85	95
600-207351-4	Cell 17-Square 46-S-2-3-200625	103	94	86	90
600-207351-5	Cell 21-Square 73-S-2-3-200625	100	95	84	95
600-207351-6	Cell 25-Square 25-S-2-3-200625	100	98	84	92
600-207351-7	Cell 26-Square 66-S-2-3-200625	103	98	86	95
LCS 600-297653/3	Lab Control Sample	100	104	91	102
LCS 600-297766/3	Lab Control Sample	110	109	96	106
LCSD 600-297653/4	Lab Control Sample Dup	103	108	96	103
LCSD 600-297766/4	Lab Control Sample Dup	108	108	95	105
MB 600-297653/6	Method Blank	106	97	87	99
MB 600-297766/6	Method Blank	112	100	87	94

Surrogate Legend

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

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-207351-1	Cell 20-Square 152-S-2-3200625	87
600-207351-2	Cell 19-Square 82-S-2-32-00625	89
600-207351-3	Cell 18-Square 31-S-2-3-200625	93
600-207351-4	Cell 17-Square 46-S-2-3-200625	95
600-207351-5	Cell 21-Square 73-S-2-3-200625	90
600-207351-6	Cell 25-Square 25-S-2-3-200625	96
600-207351-7	Cell 26-Square 66-S-2-3-200625	96
600-207351-8	Cell 20-Treatment-S-6-200626	94
600-207351-9	Cell 19-Treatment-S-6-200626	98
600-207351-10	Cell 18-Treatment-S-6-200626	103
600-207351-11	Cell 17-Treatment-S-6-200626	104
600-207351-12	Cell 21-Treatment-S-6-200626	104
600-207351-13	Cell 25-Treatment-S-6-200626	104
600-207351-14	Cell 26-Treatment-S-6-200626	105
LCS 600-297771/1-A	Lab Control Sample	98

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

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

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT1 (70-130)								
LCSD 600-297771/2-A	Lab Control Sample Dup	98								
MB 600-297771/3-A	Method Blank	96								

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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 (60-140)								
600-207351-1	Cell 20-Square 152-S-2-3200625	135								
600-207351-2	Cell 19-Square 82-S-2-32-00625	140								
600-207351-3	Cell 18-Square 31-S-2-3-200625	72								
600-207351-4	Cell 17-Square 46-S-2-3-200625	77								
600-207351-5	Cell 21-Square 73-S-2-3-200625	71								
600-207351-6	Cell 25-Square 25-S-2-3-200625	70								
600-207351-7	Cell 26-Square 66-S-2-3-200625	73								
600-207351-8	Cell 20-Treatment-S-6-200626	79								
600-207351-9	Cell 19-Treatment-S-6-200626	112								
600-207351-10	Cell 18-Treatment-S-6-200626	111								
600-207351-11	Cell 17-Treatment-S-6-200626	80								
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	108								
600-207351-13	Cell 25-Treatment-S-6-200626	116								
600-207351-14	Cell 26-Treatment-S-6-200626	113								
LCS 600-297764/2-A	Lab Control Sample	97								
LCSD 600-297764/3-A	Lab Control Sample Dup	127								
MB 600-297764/1-A	Method Blank	71								

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 600-207351-1

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

Lab Sample ID: MB 600-297653/6
Matrix: Solid
Analysis Batch: 297653

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			06/27/20 11:15	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			06/27/20 11:15	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			06/27/20 11:15	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			06/27/20 11:15	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			06/27/20 11:15	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			06/27/20 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*61 - 130*		*06/27/20 11:15*	*1*
Dibromofluoromethane	*97*		*68 - 140*		*06/27/20 11:15*	*1*
Toluene-d8 (Surr)	*87*		*50 - 130*		*06/27/20 11:15*	*1*
4-Bromofluorobenzene	*99*		*57 - 140*		*06/27/20 11:15*	*1*

Lab Sample ID: LCS 600-297653/3
Matrix: Solid
Analysis Batch: 297653

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	0.05118		mg/Kg		102	70 - 131		
Toluene			0.0500	0.04809		mg/Kg		96	67 - 130		
o-Xylene			0.0500	0.05155		mg/Kg		103	62 - 130		
Ethylbenzene			0.0500	0.05111		mg/Kg		102	66 - 130		
Xylenes, Total			0.100	0.1040		mg/Kg		104	63 - 130		
m-Xylene & p-Xylene			0.0500	0.05245		mg/Kg		105	64 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*
Dibromofluoromethane	*104*		*68 - 140*
Toluene-d8 (Surr)	*91*		*50 - 130*
4-Bromofluorobenzene	*102*		*57 - 140*

Lab Sample ID: LCSD 600-297653/4
Matrix: Solid
Analysis Batch: 297653

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	0.05393		mg/Kg		108	70 - 131	5	30
Toluene			0.0500	0.05216		mg/Kg		104	67 - 130	8	30
o-Xylene			0.0500	0.05661		mg/Kg		113	62 - 130	9	30
Ethylbenzene			0.0500	0.05572		mg/Kg		111	66 - 130	9	30
Xylenes, Total			0.100	0.1136		mg/Kg		114	63 - 130	9	30
m-Xylene & p-Xylene			0.0500	0.05696		mg/Kg		114	64 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*
Dibromofluoromethane	*108*		*68 - 140*
Toluene-d8 (Surr)	*96*		*50 - 130*

QC Sample Results

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

Job ID: 600-207351-1

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

Lab Sample ID: LCSD 600-297653/4
Matrix: Solid
Analysis Batch: 297653

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*103*		*57 - 140*

Lab Sample ID: MB 600-297766/6
Matrix: Solid
Analysis Batch: 297766

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			06/30/20 11:48	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			06/30/20 11:48	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			06/30/20 11:48	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			06/30/20 11:48	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			06/30/20 11:48	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			06/30/20 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*61 - 130*		*06/30/20 11:48*	*1*
Dibromofluoromethane	*100*		*68 - 140*		*06/30/20 11:48*	*1*
Toluene-d8 (Surr)	*87*		*50 - 130*		*06/30/20 11:48*	*1*
4-Bromofluorobenzene	*94*		*57 - 140*		*06/30/20 11:48*	*1*

Lab Sample ID: LCS 600-297766/3
Matrix: Solid
Analysis Batch: 297766

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	0.04716		mg/Kg		94	70 - 131
Toluene	0.0500	0.04569		mg/Kg		91	67 - 130
o-Xylene	0.0500	0.04954		mg/Kg		99	62 - 130
Ethylbenzene	0.0500	0.04828		mg/Kg		97	66 - 130
Xylenes, Total	0.100	0.09888		mg/Kg		99	63 - 130
m-Xylene & p-Xylene	0.0500	0.04934		mg/Kg		99	64 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*110*		*61 - 130*
Dibromofluoromethane	*109*		*68 - 140*
Toluene-d8 (Surr)	*96*		*50 - 130*
4-Bromofluorobenzene	*106*		*57 - 140*

Lab Sample ID: LCSD 600-297766/4
Matrix: Solid
Analysis Batch: 297766

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	0.05315		mg/Kg		106	70 - 131	12	30
Toluene	0.0500	0.05083		mg/Kg		102	67 - 130	11	30
o-Xylene	0.0500	0.05488		mg/Kg		110	62 - 130	10	30
Ethylbenzene	0.0500	0.05447		mg/Kg		109	66 - 130	12	30
Xylenes, Total	0.100	0.1091		mg/Kg		109	63 - 130	10	30

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

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

Lab Sample ID: LCSD 600-297766/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 297766

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.0500	0.05421		mg/Kg		108	64 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*61 - 130*
Dibromofluoromethane	*108*		*68 - 140*
Toluene-d8 (Surr)	*95*		*50 - 130*
4-Bromofluorobenzene	*105*		*57 - 140*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-297771/3-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 297774 — **Prep Batch: 297771**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		06/30/20 08:00	06/30/20 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*06/30/20 08:00*	*06/30/20 11:09*	*1*

Lab Sample ID: LCS 600-297771/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 297774 — **Prep Batch: 297771**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]			5.04	5.399		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*70 - 130*

Lab Sample ID: LCSD 600-297771/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 297774 — **Prep Batch: 297771**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.04	5.240		mg/Kg		104	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*70 - 130*

QC Sample Results

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

Job ID: 600-207351-1

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

Lab Sample ID: MB 600-297764/1-A
Matrix: Solid
Analysis Batch: 297934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 297764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		06/30/20 07:34	07/01/20 22:20	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		06/30/20 07:34	07/01/20 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*60 - 140*	*06/30/20 07:34*	*07/01/20 22:20*	*1*

Lab Sample ID: LCS 600-297764/2-A
Matrix: Solid
Analysis Batch: 297934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 297764

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.4	73.61		mg/Kg		111	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*97*		*60 - 140*

Lab Sample ID: LCSD 600-297764/3-A
Matrix: Solid
Analysis Batch: 297934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 297764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.7	80.94		mg/Kg		121	66 - 134	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*127*		*60 - 140*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-298438/1-A
Matrix: Solid
Analysis Batch: 298520

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			07/10/20 09:32	1

Lab Sample ID: LCS 600-298438/2-A
Matrix: Solid
Analysis Batch: 298520

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			200	192.7		mg/Kg		96	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-207351-4 MS **Client Sample ID: Cell 17-Square 46-S-2-3-200625**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 298520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	367		250	580.5		mg/Kg	☼	85	80 - 120		

Lab Sample ID: 600-207351-4 MSD **Client Sample ID: Cell 17-Square 46-S-2-3-200625**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 298520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	367		250	555.6	N1	mg/Kg	☼	76	80 - 120	4	20

Method: 2540B - Percent Moisture

Lab Sample ID: 600-207351-1 DU **Client Sample ID: Cell 20-Square 152-S-2-3200625**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 297705

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	28.4			29.1		%				2	20
Percent Solids	71.6			70.9		%				0.9	20

QC Association Summary

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

Job ID: 600-207351-1

GC/MS VOA

Analysis Batch: 297653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8260B	297655
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8260B	297655
MB 600-297653/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-297653/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-297653/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 297655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	5030B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	5030B	

Analysis Batch: 297766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8260B	297809
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8260B	297809
MB 600-297766/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-297766/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-297766/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 297809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	5030B	

GC VOA

Prep Batch: 297771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	5030B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	5030B	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	5030B	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	5030B	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	5030B	
MB 600-297771/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-297771/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-297771/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

GC VOA

Analysis Batch: 297774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8015B	297771
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8015B	297771
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8015B	297771
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	8015B	297771
MB 600-297771/3-A	Method Blank	Total/NA	Solid	8015B	297771
LCS 600-297771/1-A	Lab Control Sample	Total/NA	Solid	8015B	297771
LCSD 600-297771/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	297771

GC Semi VOA

Prep Batch: 297764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	3546	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	3546	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	3546	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	3546	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	3546	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	3546	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	3546	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	3546	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	3546	
MB 600-297764/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-297764/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-297764/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 297934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	8015B	297764
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	8015B	297764
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	8015B	297764
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	8015B	297764

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

GC Semi VOA (Continued)

Analysis Batch: 297934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	8015B	297764
MB 600-297764/1-A	Method Blank	Total/NA	Solid	8015B	297764
LCS 600-297764/2-A	Lab Control Sample	Total/NA	Solid	8015B	297764
LCSD 600-297764/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	297764

Analysis Batch: 298138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-12 - DL	Cell 21-Treatment-S-6-200626	Total/NA	Solid	8015B	297764

HPLC/IC

Leach Batch: 298438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Soluble	Solid	DI Leach	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Soluble	Solid	DI Leach	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-8	Cell 20-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-9	Cell 19-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-10	Cell 18-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-11	Cell 17-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-12	Cell 21-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-13	Cell 25-Treatment-S-6-200626	Soluble	Solid	DI Leach	
600-207351-14	Cell 26-Treatment-S-6-200626	Soluble	Solid	DI Leach	
MB 600-298438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-298438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-207351-4 MS	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	
600-207351-4 MSD	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	DI Leach	

Analysis Batch: 298520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Soluble	Solid	300.0	298438
600-207351-2	Cell 19-Square 82-S-2-32-00625	Soluble	Solid	300.0	298438
600-207351-3	Cell 18-Square 31-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-4	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-5	Cell 21-Square 73-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-6	Cell 25-Square 25-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-7	Cell 26-Square 66-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-8	Cell 20-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-9	Cell 19-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-10	Cell 18-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-11	Cell 17-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-12	Cell 21-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-13	Cell 25-Treatment-S-6-200626	Soluble	Solid	300.0	298438
600-207351-14	Cell 26-Treatment-S-6-200626	Soluble	Solid	300.0	298438

QC Association Summary

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

Job ID: 600-207351-1

HPLC/IC (Continued)

Analysis Batch: 298520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-298438/1-A	Method Blank	Soluble	Solid	300.0	298438
LCS 600-298438/2-A	Lab Control Sample	Soluble	Solid	300.0	298438
600-207351-4 MS	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438
600-207351-4 MSD	Cell 17-Square 46-S-2-3-200625	Soluble	Solid	300.0	298438

General Chemistry

Analysis Batch: 297705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-207351-1	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	2540B	
600-207351-2	Cell 19-Square 82-S-2-32-00625	Total/NA	Solid	2540B	
600-207351-3	Cell 18-Square 31-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-4	Cell 17-Square 46-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-5	Cell 21-Square 73-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-6	Cell 25-Square 25-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-7	Cell 26-Square 66-S-2-3-200625	Total/NA	Solid	2540B	
600-207351-8	Cell 20-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-9	Cell 19-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-10	Cell 18-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-11	Cell 17-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-12	Cell 21-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-13	Cell 25-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-14	Cell 26-Treatment-S-6-200626	Total/NA	Solid	2540B	
600-207351-1 DU	Cell 20-Square 152-S-2-3200625	Total/NA	Solid	2540B	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Square 152-S-2-3200625 Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 20-Square 152-S-2-3200625 Lab Sample ID: 600-207351-1

Date Collected: 06/25/20 10:15 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 71.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.22 g	5 mL	297655	06/27/20 14:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297653	06/27/20 18:36	PXS	TAL HOU
Total/NA	Prep	5030B			10.78 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 11:34	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 00:00	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:55	W1N	TAL HOU

Client Sample ID: Cell 19-Square 82-S-2-32-00625 Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 19-Square 82-S-2-32-00625 Lab Sample ID: 600-207351-2

Date Collected: 06/25/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 70.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.68 g	5 mL	297655	06/27/20 14:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297653	06/27/20 19:00	PXS	TAL HOU
Total/NA	Prep	5030B			10.14 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 11:59	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 00:33	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 19:26	W1N	TAL HOU

Client Sample ID: Cell 18-Square 31-S-2-3-200625 Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Square 31-S-2-3-200625 — Lab Sample ID: 600-207351-3

Date Collected: 06/25/20 11:40 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 76.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.87 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:11	WS1	TAL HOU
Total/NA	Prep	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 12:24	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 01:06	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 17:03	W1N	TAL HOU

Client Sample ID: Cell 17-Square 46-S-2-3-200625 — Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00 — **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 17-Square 46-S-2-3-200625 — Lab Sample ID: 600-207351-4

Date Collected: 06/25/20 12:00 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 79.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.34 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:34	WS1	TAL HOU
Total/NA	Prep	5030B			9.87 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 12:50	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 01:40	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		2			298520	07/10/20 15:15	W1N	TAL HOU

Client Sample ID: Cell 21-Square 73-S-2-3-200625 — Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25 — **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 21-Square 73-S-2-3-200625 — Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 70.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.65 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 12:58	WS1	TAL HOU
Total/NA	Prep	5030B			9.69 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 13:15	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 21-Square 73-S-2-3-200625 — Lab Sample ID: 600-207351-5

Date Collected: 06/25/20 12:25 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 70.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 02:13	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:04	W1N	TAL HOU

Client Sample ID: Cell 25-Square 25-S-2-3-200625 — Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50 — **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 25-Square 25-S-2-3-200625 — Lab Sample ID: 600-207351-6

Date Collected: 06/25/20 12:50 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 78.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 13:21	WS1	TAL HOU
Total/NA	Prep	5030B			10.11 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 13:40	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 02:47	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 19:06	W1N	TAL HOU

Client Sample ID: Cell 26-Square 66-S-2-3-200625 — Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15 — **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 26-Square 66-S-2-3-200625 — Lab Sample ID: 600-207351-7

Date Collected: 06/25/20 13:15 — **Matrix: Solid**
Date Received: 06/27/20 11:15 — **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.66 g	5 mL	297809	06/30/20 10:59	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	297766	06/30/20 13:45	WS1	TAL HOU
Total/NA	Prep	5030B			10.26 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:05	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 03:20	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:25	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 20-Treatment-S-6-200626 Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 20-Treatment-S-6-200626 Lab Sample ID: 600-207351-8

Date Collected: 06/26/20 08:45 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 95.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:31	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 05:01	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 13:54	W1N	TAL HOU

Client Sample ID: Cell 19-Treatment-S-6-200626 Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 19-Treatment-S-6-200626 Lab Sample ID: 600-207351-9

Date Collected: 06/26/20 09:05 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 97.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			9.67 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 14:57	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 05:34	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 16:22	W1N	TAL HOU

Client Sample ID: Cell 18-Treatment-S-6-200626 Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 18-Treatment-S-6-200626 Lab Sample ID: 600-207351-10

Date Collected: 06/26/20 09:40 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			9.41 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 15:24	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 06:08	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:35	W1N	TAL HOU

Client Sample ID: Cell 17-Treatment-S-6-200626 Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 17-Treatment-S-6-200626 Lab Sample ID: 600-207351-11

Date Collected: 06/26/20 09:55 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			9.68 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 16:18	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 06:41	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 16:43	W1N	TAL HOU

Client Sample ID: Cell 21-Treatment-S-6-200626 Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 21-Treatment-S-6-200626 Lab Sample ID: 600-207351-12

Date Collected: 06/26/20 10:30 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			9.65 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 16:56	WS1	TAL HOU
Total/NA	Prep	3546	DL		15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B	DL	2			298138	07/03/20 00:40	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 12:43	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: Cell 25-Treatment-S-6-200626 Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 25-Treatment-S-6-200626 Lab Sample ID: 600-207351-13

Date Collected: 06/26/20 10:50 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.03 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 17:29	WS1	TAL HOU
Total/NA	Prep	3546			15.08 g	1.0 mL	297764	06/30/20 07:34	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 07:46	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 18:45	W1N	TAL HOU

Client Sample ID: Cell 26-Treatment-S-6-200626 Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15 **Matrix: Solid**
Date Received: 06/27/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1			297705	06/29/20 10:38	ANP	TAL HOU

Client Sample ID: Cell 26-Treatment-S-6-200626 Lab Sample ID: 600-207351-14

Date Collected: 06/26/20 11:15 **Matrix: Solid**
Date Received: 06/27/20 11:15 **Percent Solids: 97.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.25 g	10 mL	297771	06/30/20 08:00	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	297774	06/30/20 18:02	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	297764	06/30/20 09:18	SMB	TAL HOU
Total/NA	Analysis	8015B		1			297934	07/02/20 08:18	RJV	TAL HOU
Soluble	Leach	DI Leach			5.00 g	50.00 mL	298438	07/09/20 08:10	AAZ	TAL HOU
Soluble	Analysis	300.0		1			298520	07/10/20 14:14	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-207351-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins

Client Information	Sampler: Chas Holder	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-77345-20763.1
Client Contact: Alison Schaffer	Phone: 806-831-9801	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 2
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			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)
State, Zip: CO, 80129-2377				
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			Other:
Project Name: Chevron - Jal Land Farm Soils	Project #: 60012253			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO-/ ORO	8015B_GRO_	8260B- BTEX	300- Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 20-square 152-S-2-3-200625	6-25	1015	G	Solid			✓	✓	✓	✓	3	
Cell A-square 82-S-2-3-200625	6-25	1050	G	Solid			✓	✓	✓	✓	3	
Cell 18-square 31-S-2-3-200625	6-25	1140	G	Solid			✓	✓	✓	✓	3	
Cell 17-square 46-S-2-3-200625	6-25	1200	G	Solid			✓	✓	✓	✓	3	
Cell 21-square 73-S-2-3-200625	6-25	1225	G	Solid			✓	✓	✓	✓	3	
Cell 25-square 25-S-2-3-200625	6-25	1250	G	Solid			✓	✓	✓	✓	3	
Cell 26-square 66-S-2-3-200625	6-25	1315	G	Solid			✓	✓	✓	✓	3	
Cell 20-treatment-S-6-200626	6-26	0845	G	Solid			✓	✓		✓	2	
Cell 19-treatment-S-6-200626	6-26	0905	G	Solid			✓	✓		✓	2	
Cell 18-treatment-S-6-200626	6-26	0940	G	Solid			✓	✓		✓	2	
Cell 17-treatment-S-6-200626	6-26	0955	G	Solid			✓	✓		✓	2	

600-207351 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
Chas Holder	6-26-20 / 1230	Arcadis			
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

Midland #264

eurofins

Client Information	Sampler: Chas Holder	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-77345-20763.1
Client Contact: Alison Schaffer	Phone: 806-831-7801	E-Mail: sachin.kudchadkar@testamericainc.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			
State, Zip: CO, 80129-2377				
Phone: 303-316-6506(Tel)	PO #: Purchase Order Requested			
Email: Alison.Schaffer@arcadis.com	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 60012253			
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)	8015B_DRO / ORO	8015B_GRO	8260B- BTEX	300- Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
Cell 21-treatment-5-6-200626	6-26	1030	G	Solid			✓	✓		✓	2	
Cell 25-treatment-5-6-200626	6-26	1050	G	Solid			✓	✓		✓	2	
Cell 26-treatment-5-6-200626	6-26	1115	G	Solid			✓	✓		✓	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

CH 6-26-20

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
Chas Holder	6-26-20 1230	Arcadis			
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

Eurofins TestAmerica Houston

Loc: 600
207351

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

'20 JUN 27 11:15

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: YP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
0142	Y / N	Y / N	2.3	678	-0.1	2.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				6/27/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

6/27/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-207351-1

Login Number: 207351 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	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.	N/A	Check done at department level as required.

eurofins | Environment Testing America



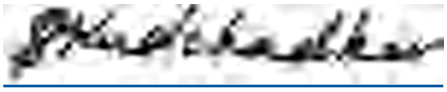
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209489-1
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:
9/21/2020 4:30:15 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

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209489-1

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Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209489-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA
Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

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

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

GC Semi VOA
Method 8082: Surrogate recovery for the following sample was outside control limits: CELL20-SQUARE15-S-2-3-200807 (600-209489-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The continuing calibration verification (CCV) associated with batch 600-302135 recovered above the upper control limit for 4,4-DDT,Aldrin,beta-BHC,delta-BHC,and DCB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-302135/5).

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

RAD
Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639
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

Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209489-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2), CELL20-SQUARE15-S-2-3-200807 (600-209489-3), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The following samples were diluted due to the abundance of non-target analytes: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844
The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209489-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

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

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

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: The following sample was 99% gravel. Unable to get 10g of soil for the extraction. Forced to use the gravel to bring sample weight up to 10g for extraction. CELL20-SQUARE204-S-2-3-200807 (600-209489-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL20-SQUARE79-S-2-3-200807 (600-209489-1), CELL20-SQUARE204-S-2-3-200807 (600-209489-2) and CELL20-SQUARE15-S-2-3-200807 (600-209489-3). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

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

Job ID: 600-209489-1

Job ID: 600-209489-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 3546: The following sample required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: CELL20-SQUARE15-S-2-3-200807 (600-209489-3).

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

Method Summary

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

Job ID: 600-209489-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209489-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Solid	08/07/20 11:35	08/08/20 10:05	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Solid	08/07/20 12:13	08/08/20 10:05	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Solid	08/07/20 12:59	08/08/20 10:05	

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Date Collected: 08/07/20 11:35
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-1

Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.79	U	10.8	1.79	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Vinyl chloride	0.971	U	10.8	0.971	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Bromomethane	0.895	U	10.8	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Trichlorofluoromethane	0.712	U	10.8	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Acrolein	6.72	U	27.0	6.72	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloroethene	1.32	U	5.39	1.32	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
trans-1,2-Dichloroethene	1.23	U	5.39	1.23	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Methyl tert-butyl ether	1.97	U	5.39	1.97	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Methylene Chloride	**3.95**	**J**	10.8	2.36	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Acrylonitrile	6.28	U	53.9	6.28	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
cis-1,2-Dichloroethene	0.895	U	5.39	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Carbon tetrachloride	1.22	U	5.39	1.22	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Benzene	**2.75**	**J**	5.39	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichloroethane	0.971	U	5.39	0.971	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Trichloroethene	1.51	U	5.39	1.51	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1,1-Trichloroethane	0.798	U	5.39	0.798	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloroethane	0.938	U	5.39	0.938	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichloropropane	0.766	U	5.39	0.766	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,4-Dioxane	66.9	U	539	66.9	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Chloroform	**2.13**	**J b**	10.8	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Bromodichloromethane	0.712	U	5.39	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1-Dichloropropene	0.701	U	5.39	0.701	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
cis-1,3-Dichloropropene	0.582	U	5.39	0.582	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Toluene	1.49	U	5.39	1.49	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
trans-1,3-Dichloropropene	0.625	U	5.39	0.625	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1,2-Trichloroethane	0.787	U	5.39	0.787	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Tetrachloroethene	0.766	U	5.39	0.766	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,3-Dichloropropene, Total	0.625	U	5.39	0.625	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,2-Dibromoethane	1.10	U	5.39	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Monochlorobenzene	1.04	U	5.39	1.04	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Ethylbenzene	1.10	U	5.39	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Xylenes, Total	1.22	U	5.39	1.22	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Styrene	0.766	U	5.39	0.766	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Tribromomethane	1.48	U	5.39	1.48	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,1,2,2-Tetrachloroethane	0.938	U	5.39	0.938	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,4-Dichlorobenzene	0.712	U	5.39	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,2-Dichlorobenzene	0.863	U	5.39	0.863	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
1,2,4-Trichlorobenzene	2.12	U	5.39	2.12	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1
Dichlorodifluoromethane	1.66	U	5.39	1.66	ug/Kg	☼	08/12/20 11:03	08/13/20 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*	*08/12/20 11:03*	*08/13/20 13:58*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*08/12/20 11:03*	*08/13/20 13:58*	*1*
Toluene-d8 (Surr)	*88*		*50 - 130*	*08/12/20 11:03*	*08/13/20 13:58*	*1*
4-Bromofluorobenzene	*103*		*57 - 140*	*08/12/20 11:03*	*08/13/20 13:58*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.83	U	38.4	4.83	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodiethylamine	8.28	U	38.4	8.28	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807
Date Collected: 08/07/20 11:35
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-1
Matrix: Solid
Percent Solids: 86.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.4	1.90	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Hexachloroethane	2.67	U	38.4	2.67	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosopyrrolidine	5.39	U	38.4	5.39	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Nitrobenzene	3.42	U	38.4	3.42	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Isophorone	1.15	U	38.4	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2,4-Dichlorophenol	4.46	U	38.4	4.46	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Naphthalene	1.56	U	38.4	1.56	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Hexachlorobutadiene	2.22	U	38.4	2.22	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodi-n-butylamine	19.2	U	38.4	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2-Methylnaphthalene	3.16	U	38.4	3.16	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
1-Methylnaphthalene	1.81	U	38.4	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
1,2,4,5-Tetrachlorobenzene	7.79	U	38.4	7.79	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Hexachlorocyclopentadiene	5.32	U	38.4	5.32	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2,4,6-Trichlorophenol	3.09	U	38.4	3.09	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2,4,5-Trichlorophenol	11.5	U	38.4	11.5	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dimethyl phthalate	5.64	U	77.0	5.64	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Acenaphthylene	1.15	U	38.4	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2,6-Dinitrotoluene	3.40	U	38.4	3.40	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Acenaphthene	1.66	U	38.4	1.66	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dinitrophenols	5.45	U	115	5.45	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Pentachlorobenzene	4.63	U	38.4	4.63	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
2,4-Dinitrotoluene	4.16	U	38.4	4.16	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Diethyl phthalate	9.73	U	77.0	9.73	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Fluorene	2.72	U	38.4	2.72	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dinitro-o-cresol	5.75	U	196	5.75	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
N-Nitrosodiphenylamine	2.18	U	38.4	2.18	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Diphenylhydrazine, 1,2-	1.87	U	38.4	1.87	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Hexachlorobenzene	1.75	U	38.4	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Atrazine	5.79	U	38.4	5.79	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Pentachlorophenol	4.61	U	193	4.61	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Phenanthrene	5.71	U	38.4	5.71	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Anthracene	1.48	U	38.4	1.48	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dibutylphthalate	**8.51**	**J**	77.0	2.99	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Fluoranthene	3.59	U	38.4	3.59	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzidine	10.4	U	381	10.4	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Pyrene	2.11	U	38.4	2.11	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dichlorobenzidine, 3,3'-	11.7	U	38.4	11.7	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzo[a]anthracene	1.59	U	38.4	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Di (2-ethylhexyl)phthalate	**22.0**	**J**	38.4	6.20	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Chrysene	1.18	U	38.4	1.18	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzo[b]fluoranthene	1.98	U	38.4	1.98	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzo[k]fluoranthene	1.72	U	38.4	1.72	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzo[a]pyrene	1.86	U	38.4	1.86	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Indeno[1,2,3-cd]pyrene	4.04	U	38.4	4.04	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Dibenz(a,h)anthracene	4.19	U	38.4	4.19	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Benzo[g,h,i]perylene	5.85	U	38.4	5.85	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
bis (2-chloroisopropyl) ether	10.2	U	38.4	10.2	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.4	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 19:14	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Date Collected: 08/07/20 11:35
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-1

Matrix: Solid
Percent Solids: 86.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*46*		*10 - 148*	*08/12/20 11:16*	*08/17/20 19:14*	*1*
2-Fluorobiphenyl	*79*		*38 - 130*	*08/12/20 11:16*	*08/17/20 19:14*	*1*
2-Fluorophenol	*69*		*25 - 132*	*08/12/20 11:16*	*08/17/20 19:14*	*1*
Nitrobenzene-d5	*76*		*10 - 155*	*08/12/20 11:16*	*08/17/20 19:14*	*1*
Terphenyl-d14	*103*		*53 - 134*	*08/12/20 11:16*	*08/17/20 19:14*	*1*
Phenol-d5 (Surr)	*73*		*27 - 130*	*08/12/20 11:16*	*08/17/20 19:14*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.0	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*80*		*30 - 164*	*08/18/20 13:26*	*08/20/20 19:44*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.635	U	1.08	0.635	mg/Kg	☼	08/08/20 15:03	08/13/20 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*08/08/20 15:03*	*08/13/20 13:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.96	U	8.65	2.96	mg/Kg	☼	08/10/20 15:56	08/13/20 20:52	1
C28-C36	8.65	U	8.65	8.65	mg/Kg	☼	08/10/20 15:56	08/13/20 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*60 - 140*	*08/10/20 15:56*	*08/13/20 20:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.51	U	1.95	1.51	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, delta-	0.977	U	1.95	0.977	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Chlordane (technical)	26.9	U	86.2	26.9	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
DDT	2.13	U	3.79	2.13	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan II	1.74	U	3.79	1.74	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☼	08/11/20 08:51	08/13/20 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*47 - 150*	*08/11/20 08:51*	*08/13/20 12:58*	*1*
Tetrachloro-m-xylene	*80*		*50 - 143*	*08/11/20 08:51*	*08/13/20 12:58*	*1*

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Date Collected: 08/07/20 11:35
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-1

Matrix: Solid
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1221	0.00992	U	0.0192	0.00992	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1232	0.00770	U	0.0192	0.00770	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☼	08/11/20 08:51	08/13/20 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*10 - 150*	*08/11/20 08:51*	*08/13/20 13:21*	*1*
DCB Decachlorobiphenyl	*109*		*10 - 150*	*08/11/20 08:51*	*08/13/20 13:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.17**	**J**	4.62	0.617	mg/Kg	☼		08/11/20 23:32	1
Nitrate as N	**7.01**		2.31	0.290	mg/Kg	☼		08/11/20 23:32	1
Fluoride	**5.13**		2.31	0.695	mg/Kg	☼		08/11/20 23:32	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☼		08/11/20 23:32	1
Sulfate	**62.3**		5.78	1.11	mg/Kg	☼		08/11/20 23:32	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	0.0923	0.0210	mg/Kg		08/12/20 15:04	08/13/20 23:12	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		08/12/20 15:04	08/13/20 23:12	1
2,4,6-Trinitrotoluene	0.0283	U	0.0923	0.0283	mg/Kg		08/12/20 15:04	08/13/20 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/12/20 15:04*	*08/13/20 23:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0922	U	0.560	0.0922	ug/Kg	☼	08/12/20 11:00	08/20/20 15:59	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.257	U	0.894	0.257	ug/Kg	☼	08/17/20 14:49	08/24/20 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	0.313	U	0.894	0.313	ug/Kg	☼	08/17/20 14:49	08/24/20 14:15	1
Perfluorooctanesulfonic acid (PFOS)	0.157	U	0.894	0.157	ug/Kg	☼	08/17/20 14:49	08/24/20 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 14:15*	*1*
13C8 PFOS	*95*		*70 - 130*	*08/17/20 14:49*	*08/24/20 14:15*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.781	U	2.08	0.781	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Arsenic	4.17	U	10.4	4.17	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Barium	**245**		20.8	5.21	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Beryllium	0.417	U	1.04	0.417	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Cadmium	0.250	U	0.521	0.250	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Chromium	4.69	U	10.4	4.69	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE79-S-2-3-200807

Lab Sample ID: 600-209489-1
Date Collected: 08/07/20 11:35
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2050**		125	62.5	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Copper	4.17	U	10.4	4.17	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Manganese	**20.4**		5.21	2.08	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Lead	1.30	U	3.13	1.30	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Antimony	2.08	U	5.21	2.08	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Selenium	3.33	U	5.21	3.33	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Thallium	2.08	U	5.21	2.08	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Zinc	20.8	U	52.1	20.8	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20
Uranium	0.417	U	1.04	0.417	mg/Kg	☼	09/04/20 10:33	09/09/20 19:48	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00382	U	0.0181	0.00382	mg/Kg	☼	09/02/20 13:16	09/03/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**86.5**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0198	U	0.132	0.0198	mg/Kg	☼	08/20/20 13:55	08/20/20 17:46	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	**0.551**	**J**	0.571	0.479	mg/Kg	☼	08/20/20 12:06	08/20/20 16:01	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**125**		10.0	10.0	mg/L			08/17/20 11:57	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	**1.32**		0.233	0.269	1.00	0.137	pCi/g	08/17/20 17:22	09/08/20 15:04	1
Radium-228	0.184	U	0.246	0.246		0.345	pCi/g	08/17/20 17:22	09/08/20 15:04	1
Combined Radium 226 + 228	**1.50**		0.339	0.365		0.345	pCi/g	08/17/20 17:22	09/08/20 15:04	1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807

Lab Sample ID: 600-209489-2
Date Collected: 08/07/20 12:13
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.05	U	12.3	2.05	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Vinyl chloride	1.11	U	12.3	1.11	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Trichlorofluoromethane	0.814	U	12.3	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Acrolein	7.68	U	30.8	7.68	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloroethene	1.50	U	6.17	1.50	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
trans-1,2-Dichloroethene	1.41	U	6.17	1.41	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Methyl tert-butyl ether	2.26	U	6.17	2.26	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Methylene Chloride	**4.21**	**J**	12.3	2.70	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Acrylonitrile	7.18	U	61.7	7.18	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807
Date Collected: 08/07/20 12:13
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-2
Matrix: Solid
Percent Solids: 88.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.02	U	6.17	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Carbon tetrachloride	1.39	U	6.17	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Benzene	0.777	U	6.17	0.777	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichloroethane	1.11	U	6.17	1.11	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Trichloroethene	1.73	U	6.17	1.73	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1,1-Trichloroethane	0.913	U	6.17	0.913	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloroethane	1.07	U	6.17	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichloropropane	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,4-Dioxane	76.6	U	617	76.6	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Chloroform	**2.42**	**J b**	12.3	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Bromodichloromethane	0.814	U	6.17	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1-Dichloropropene	0.802	U	6.17	0.802	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
cis-1,3-Dichloropropene	0.666	U	6.17	0.666	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Toluene	1.70	U	6.17	1.70	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
trans-1,3-Dichloropropene	0.715	U	6.17	0.715	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1,2-Trichloroethane	0.900	U	6.17	0.900	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Tetrachloroethene	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,3-Dichloropropene, Total	0.715	U	6.17	0.715	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,2-Dibromoethane	1.26	U	6.17	1.26	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Monochlorobenzene	1.18	U	6.17	1.18	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Ethylbenzene	1.26	U	6.17	1.26	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Xylenes, Total	1.39	U	6.17	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Styrene	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Tribromomethane	1.69	U	6.17	1.69	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,1,2,2-Tetrachloroethane	1.07	U	6.17	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,4-Dichlorobenzene	0.814	U	6.17	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,2-Dichlorobenzene	0.987	U	6.17	0.987	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
1,2,4-Trichlorobenzene	2.43	U	6.17	2.43	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1
Dichlorodifluoromethane	1.90	U	6.17	1.90	ug/Kg	☼	08/12/20 11:03	08/13/20 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*	*08/12/20 11:03*	*08/13/20 14:22*	*1*
Dibromofluoromethane	*88*		*68 - 140*	*08/12/20 11:03*	*08/13/20 14:22*	*1*
Toluene-d8 (Surr)	*83*		*50 - 130*	*08/12/20 11:03*	*08/13/20 14:22*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*08/12/20 11:03*	*08/13/20 14:22*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.71	U	37.4	4.71	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodiethylamine	8.06	U	37.4	8.06	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Bis(2-chloroethyl)ether	1.85	U	37.4	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Hexachloroethane	2.59	U	37.4	2.59	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosopyrrolidine	5.24	U	37.4	5.24	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Nitrobenzene	3.32	U	37.4	3.32	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Isophorone	1.12	U	37.4	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2,4-Dichlorophenol	4.35	U	37.4	4.35	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Naphthalene	1.52	U	37.4	1.52	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Hexachlorobutadiene	2.16	U	37.4	2.16	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodi-n-butylamine	18.7	U	37.4	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2-Methylnaphthalene	3.08	U	37.4	3.08	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 **Lab Sample ID: 600-209489-2**
Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.5**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.76	U	37.4	1.76	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
1,2,4,5-Tetrachlorobenzene	7.58	U	37.4	7.58	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Hexachlorocyclopentadiene	5.18	U	37.4	5.18	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2,4,6-Trichlorophenol	3.01	U	37.4	3.01	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2,4,5-Trichlorophenol	11.2	U	37.4	11.2	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dimethyl phthalate	5.49	U	74.9	5.49	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Acenaphthylene	1.12	U	37.4	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2,6-Dinitrotoluene	3.31	U	37.4	3.31	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Acenaphthene	1.62	U	37.4	1.62	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dinitrophenols	5.30	U	112	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Pentachlorobenzene	4.50	U	37.4	4.50	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
2,4-Dinitrotoluene	4.05	U	37.4	4.05	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Diethyl phthalate	9.47	U	74.9	9.47	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Fluorene	2.65	U	37.4	2.65	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dinitro-o-cresol	5.59	U	191	5.59	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
N-Nitrosodiphenylamine	2.12	U	37.4	2.12	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Diphenylhydrazine, 1,2-	1.82	U	37.4	1.82	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Hexachlorobenzene	1.71	U	37.4	1.71	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Atrazine	5.64	U	37.4	5.64	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Pentachlorophenol	4.49	U	188	4.49	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Phenanthrene	5.56	U	37.4	5.56	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Anthracene	1.44	U	37.4	1.44	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dibutylphthalate	**15.0**	**J**	74.9	2.91	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Fluoranthene	3.49	U	37.4	3.49	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzidine	10.1	U	371	10.1	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Pyrene	2.06	U	37.4	2.06	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dichlorobenzidine, 3,3'-	11.4	U	37.4	11.4	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzo[a]anthracene	1.55	U	37.4	1.55	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Di (2-ethylhexyl)phthalate	**41.9**		37.4	6.03	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Chrysene	1.15	U	37.4	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzo[b]fluoranthene	1.93	U	37.4	1.93	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzo[k]fluoranthene	1.67	U	37.4	1.67	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzo[a]pyrene	1.81	U	37.4	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Indeno[1,2,3-cd]pyrene	3.93	U	37.4	3.93	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Dibenz(a,h)anthracene	4.08	U	37.4	4.08	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Benzo[g,h,i]perylene	5.69	U	37.4	5.69	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
bis (2-chloroisopropyl) ether	9.93	U	37.4	9.93	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.4	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*32*		*10 - 148*	*08/12/20 11:16*	*08/17/20 19:39*	*1*
2-Fluorobiphenyl	*88*		*38 - 130*	*08/12/20 11:16*	*08/17/20 19:39*	*1*
2-Fluorophenol	*85*		*25 - 132*	*08/12/20 11:16*	*08/17/20 19:39*	*1*
Nitrobenzene-d5	*86*		*10 - 155*	*08/12/20 11:16*	*08/17/20 19:39*	*1*
Terphenyl-d14	*103*		*53 - 134*	*08/12/20 11:16*	*08/17/20 19:39*	*1*
Phenol-d5 (Surr)	*83*		*27 - 130*	*08/12/20 11:16*	*08/17/20 19:39*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.4	U	74.0	13.4	ug/Kg	☼	08/18/20 13:26	08/20/20 20:09	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE204-S-2-3-200807
Date Collected: 08/07/20 12:13
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-2
Matrix: Solid
Percent Solids: 88.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*60*		*30 - 164*	*08/18/20 13:26*	*08/20/20 20:09*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.708	U	1.21	0.708	mg/Kg	☼	08/08/20 15:03	08/13/20 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*08/08/20 15:03*	*08/13/20 13:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.89	U	8.44	2.89	mg/Kg	☼	08/10/20 15:56	08/13/20 21:25	1
C28-C36	8.44	U	8.44	8.44	mg/Kg	☼	08/10/20 15:56	08/13/20 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*135*		*60 - 140*	*08/10/20 15:56*	*08/13/20 21:25*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.48	U	1.92	1.48	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, beta-	1.15	U	1.92	1.15	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, delta-	0.959	U	1.92	0.959	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, alpha-	1.13	U	1.92	1.13	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Hexachlorocyclohexane, gamma-	1.05	U	1.92	1.05	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Chlordane (technical)	26.4	U	84.6	26.4	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
DDT	2.09	U	3.72	2.09	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Dieldrin	1.57	U	3.72	1.57	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Endosulfan I	1.13	U	1.92	1.13	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Endosulfan II	1.70	U	3.72	1.70	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Endosulfan sulfate	1.90	U	3.72	1.90	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Endrin	1.73	U	3.72	1.73	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Endrin aldehyde	1.76	U	3.72	1.76	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Heptachlor	1.05	U	1.92	1.05	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Heptachlor epoxide	1.32	U	1.92	1.32	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1
Toxaphene	82.5	U	192	82.5	ug/Kg	☼	08/11/20 09:01	08/26/20 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*47 - 150*	*08/11/20 09:01*	*08/26/20 12:07*	*1*
Tetrachloro-m-xylene	*81*		*50 - 143*	*08/11/20 09:01*	*08/26/20 12:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00181	U	0.0188	0.00181	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1221	0.00974	U	0.0188	0.00974	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1232	0.00756	U	0.0188	0.00756	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1248	0.00281	U	0.0188	0.00281	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	☼	08/11/20 09:01	08/13/20 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*10 - 150*	*08/11/20 09:01*	*08/13/20 13:47*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 **Lab Sample ID: 600-209489-2**
Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.5**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		10 - 150	08/11/20 09:01	08/13/20 13:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.45**	**J**	4.52	0.603	mg/Kg	☼		08/11/20 23:53	1
Nitrate as N	**10.0**		2.26	0.284	mg/Kg	☼		08/11/20 23:53	1
Fluoride	**4.37**		2.26	0.679	mg/Kg	☼		08/11/20 23:53	1
Nitrite as N	0.336	U	2.26	0.336	mg/Kg	☼		08/11/20 23:53	1
Sulfate	**56.5**		5.65	1.08	mg/Kg	☼		08/11/20 23:53	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	0.0219	U	0.0965	0.0219	mg/Kg		08/12/20 15:04	08/13/20 23:35	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		08/12/20 15:04	08/13/20 23:35	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		08/12/20 15:04	08/13/20 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0863	U	0.524	0.0863	ug/Kg	☼	08/12/20 11:00	08/20/20 16:04	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.255	U	0.888	0.255	ug/Kg	☼	08/17/20 14:49	08/24/20 14:24	1
Perfluorohexanesulfonic acid (PFHxS)	0.311	U	0.888	0.311	ug/Kg	☼	08/17/20 14:49	08/24/20 14:24	1
Perfluorooctanesulfonic acid (PFOS)	0.155	U	0.888	0.155	ug/Kg	☼	08/17/20 14:49	08/24/20 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		57 - 153	08/17/20 14:49	08/24/20 14:24	1
13C8 PFOS	95		70 - 130	08/17/20 14:49	08/24/20 14:24	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.842	U	2.24	0.842	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Arsenic	**5.04**	**J**	11.2	4.49	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Barium	**331**		22.4	5.61	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Beryllium	0.449	U	1.12	0.449	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Cadmium	0.269	U	0.561	0.269	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Chromium	5.05	U	11.2	5.05	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Iron	**1640**		135	67.3	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Copper	4.49	U	11.2	4.49	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Manganese	**15.4**		5.61	2.24	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Lead	1.40	U	3.37	1.40	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Antimony	2.24	U	5.61	2.24	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Selenium	3.59	U	5.61	3.59	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Thallium	2.24	U	5.61	2.24	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Zinc	22.4	U	56.1	22.4	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20
Uranium	0.449	U	1.12	0.449	mg/Kg	☼	09/04/20 10:33	09/09/20 19:51	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.5**

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00373	U	0.0177	0.00373	mg/Kg	☼	09/02/20 13:16	09/03/20 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**88.5**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0199	U	0.132	0.0199	mg/Kg	☼	08/20/20 13:55	08/20/20 17:49	1
pH	**8.5**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.469	U	0.559	0.469	mg/Kg	☼	08/21/20 12:16	08/21/20 13:49	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**87.0**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.967**		0.182	0.208	1.00	0.132	pCi/g	08/17/20 17:22	09/08/20 12:56	1
Radium-228	-0.0273	U	0.242	0.242		0.295	pCi/g	08/17/20 17:22	09/08/20 12:56	1
Combined Radium 226 + 228	**0.940**		0.303	0.319		0.295	pCi/g	08/17/20 17:22	09/08/20 12:56	1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807 Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.71	U	10.3	1.71	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Vinyl chloride	0.926	U	10.3	0.926	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Bromomethane	0.854	U	10.3	0.854	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Trichlorofluoromethane	0.679	U	10.3	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Acrolein	6.41	U	25.7	6.41	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloroethene	1.25	U	5.14	1.25	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
trans-1,2-Dichloroethene	1.17	U	5.14	1.17	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Methyl tert-butyl ether	1.88	U	5.14	1.88	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Methylene Chloride	2.25	U	10.3	2.25	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Acrylonitrile	5.99	U	51.4	5.99	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
cis-1,2-Dichloroethene	0.854	U	5.14	0.854	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Carbon tetrachloride	1.16	U	5.14	1.16	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Benzene	0.648	U	5.14	0.648	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichloroethane	0.926	U	5.14	0.926	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Trichloroethene	1.44	U	5.14	1.44	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1,1-Trichloroethane	0.761	U	5.14	0.761	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloroethane	0.895	U	5.14	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichloropropane	0.730	U	5.14	0.730	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,4-Dioxane	63.8	U	514	63.8	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Chloroform	**1.91**	**J b**	10.3	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Bromodichloromethane	0.679	U	5.14	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1-Dichloropropene	0.668	U	5.14	0.668	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE15-S-2-3-200807 **Lab Sample ID: 600-209489-3**
Date Collected: 08/07/20 12:59 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.555	U	5.14	0.555	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Toluene	1.42	U	5.14	1.42	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
trans-1,3-Dichloropropene	0.596	U	5.14	0.596	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1,2-Trichloroethane	0.751	U	5.14	0.751	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Tetrachloroethene	0.730	U	5.14	0.730	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,3-Dichloropropene, Total	0.596	U	5.14	0.596	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,2-Dibromoethane	1.05	U	5.14	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Monochlorobenzene	0.987	U	5.14	0.987	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Styrene	0.730	U	5.14	0.730	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Tribromomethane	1.41	U	5.14	1.41	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,1,2,2-Tetrachloroethane	0.895	U	5.14	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,4-Dichlorobenzene	0.679	U	5.14	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,2-Dichlorobenzene	0.823	U	5.14	0.823	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
1,2,4-Trichlorobenzene	2.03	U	5.14	2.03	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1
Dichlorodifluoromethane	1.58	U	5.14	1.58	ug/Kg	☼	08/12/20 11:03	08/13/20 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 130*	*08/12/20 11:03*	*08/13/20 14:46*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/12/20 11:03*	*08/13/20 14:46*	*1*
Toluene-d8 (Surr)	*87*		*50 - 130*	*08/12/20 11:03*	*08/13/20 14:46*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*08/12/20 11:03*	*08/13/20 14:46*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.49	U	35.7	4.49	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodiethylamine	7.69	U	35.7	7.69	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Bis(2-chloroethyl)ether	1.77	U	35.7	1.77	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Hexachloroethane	2.47	U	35.7	2.47	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosopyrrolidine	5.00	U	35.7	5.00	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Nitrobenzene	3.17	U	35.7	3.17	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Isophorone	1.07	U	35.7	1.07	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2,4-Dichlorophenol	4.15	U	35.7	4.15	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Naphthalene	1.45	U	35.7	1.45	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Hexachlorobutadiene	2.06	U	35.7	2.06	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodi-n-butylamine	17.9	U	35.7	17.9	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2-Methylnaphthalene	2.94	U	35.7	2.94	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
1-Methylnaphthalene	1.68	U	35.7	1.68	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
1,2,4,5-Tetrachlorobenzene	7.23	U	35.7	7.23	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Hexachlorocyclopentadiene	4.94	U	35.7	4.94	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2,4,6-Trichlorophenol	2.87	U	35.7	2.87	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2,4,5-Trichlorophenol	10.7	U	35.7	10.7	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dimethyl phthalate	5.24	U	71.5	5.24	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Acenaphthylene	1.07	U	35.7	1.07	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2,6-Dinitrotoluene	3.16	U	35.7	3.16	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Acenaphthene	1.54	U	35.7	1.54	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dinitrophenols	5.06	U	107	5.06	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Pentachlorobenzene	4.30	U	35.7	4.30	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
2,4-Dinitrotoluene	3.87	U	35.7	3.87	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE15-S-2-3-200807 **Lab Sample ID: 600-209489-3**
Date Collected: 08/07/20 12:59 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 92.8**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.03	U	71.5	9.03	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Fluorene	2.53	U	35.7	2.53	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dinitro-o-cresol	5.34	U	182	5.34	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
N-Nitrosodiphenylamine	2.02	U	35.7	2.02	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Diphenylhydrazine, 1,2-	1.74	U	35.7	1.74	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Hexachlorobenzene	1.63	U	35.7	1.63	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Atrazine	5.38	U	35.7	5.38	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Pentachlorophenol	4.29	U	179	4.29	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Phenanthrene	5.30	U	35.7	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Anthracene	1.37	U	35.7	1.37	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dibutylphthalate	**6.06**	**J**	71.5	2.77	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Fluoranthene	3.33	U	35.7	3.33	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzidine	9.66	U	354	9.66	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Pyrene	1.96	U	35.7	1.96	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dichlorobenzidine, 3,3'-	10.9	U	35.7	10.9	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzo[a]anthracene	1.48	U	35.7	1.48	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Di (2-ethylhexyl)phthalate	**31.2**	**J**	35.7	5.75	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Chrysene	1.09	U	35.7	1.09	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzo[b]fluoranthene	1.84	U	35.7	1.84	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzo[k]fluoranthene	1.60	U	35.7	1.60	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzo[a]pyrene	1.72	U	35.7	1.72	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Indeno[1,2,3-cd]pyrene	3.75	U	35.7	3.75	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Dibenz(a,h)anthracene	3.89	U	35.7	3.89	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Benzo[g,h,i]perylene	5.43	U	35.7	5.43	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
bis (2-chloroisopropyl) ether	9.47	U	35.7	9.47	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1
Thiophene, tetrahydro-, 1,1-dioxide	17.9	U	35.7	17.9	ug/Kg	☼	08/12/20 11:16	08/17/20 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*10 - 148*	*08/12/20 11:16*	*08/17/20 20:03*	*1*
2-Fluorobiphenyl	*78*		*38 - 130*	*08/12/20 11:16*	*08/17/20 20:03*	*1*
2-Fluorophenol	*77*		*25 - 132*	*08/12/20 11:16*	*08/17/20 20:03*	*1*
Nitrobenzene-d5	*76*		*10 - 155*	*08/12/20 11:16*	*08/17/20 20:03*	*1*
Terphenyl-d14	*102*		*53 - 134*	*08/12/20 11:16*	*08/17/20 20:03*	*1*
Phenol-d5 (Surr)	*63*		*27 - 130*	*08/12/20 11:16*	*08/17/20 20:03*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.2	12.8	ug/Kg	☼	08/18/20 13:26	08/20/20 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*76*		*30 - 164*	*08/18/20 13:26*	*08/20/20 20:34*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.627	U	1.07	0.627	mg/Kg	☼	08/08/20 15:03	08/13/20 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*08/08/20 15:03*	*08/13/20 14:07*	*1*

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Date Collected: 08/07/20 12:59
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-3

Matrix: Solid
Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.74	U	8.01	2.74	mg/Kg	☼	08/10/20 15:56	08/13/20 21:59	1
C28-C36	8.01	U	8.01	8.01	mg/Kg	☼	08/10/20 15:56	08/13/20 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*60 - 140*	*08/10/20 15:56*	*08/13/20 21:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.41	U	1.83	1.41	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, beta-	1.10	U	1.83	1.10	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, delta-	0.914	U	1.83	0.914	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, alpha-	1.07	U	1.83	1.07	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Hexachlorocyclohexane, gamma-	1.00	U	1.83	1.00	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Chlordane (technical)	25.2	U	80.6	25.2	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
DDT	1.99	U	3.55	1.99	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Dieldrin	1.49	U	3.55	1.49	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Endosulfan I	1.07	U	1.83	1.07	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Endosulfan II	1.62	U	3.55	1.62	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Endosulfan sulfate	1.81	U	3.55	1.81	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Endrin	1.64	U	3.55	1.64	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Endrin aldehyde	1.68	U	3.55	1.68	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Heptachlor	1.00	U	1.83	1.00	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Heptachlor epoxide	1.26	U	1.83	1.26	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1
Toxaphene	78.6	U	183	78.6	ug/Kg	☼	08/11/20 09:01	08/13/20 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*47 - 150*	*08/11/20 09:01*	*08/13/20 13:47*	*1*
Tetrachloro-m-xylene	*88*		*50 - 143*	*08/11/20 09:01*	*08/13/20 13:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00172	U	0.0180	0.00172	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1221	0.00928	U	0.0180	0.00928	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1232	0.00720	U	0.0180	0.00720	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1242	0.00133	U	0.0180	0.00133	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1248	0.00268	U	0.0180	0.00268	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1254	0.00238	U	0.0180	0.00238	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
PCB-1260	0.0145	U	0.0180	0.0145	mg/Kg	☼	08/11/20 09:01	08/13/20 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*271*	*X*	*10 - 150*	*08/11/20 09:01*	*08/13/20 14:12*	*1*
DCB Decachlorobiphenyl	*386*	*X*	*10 - 150*	*08/11/20 09:01*	*08/13/20 14:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		4.31	0.576	mg/Kg	☼		08/12/20 00:54	1
Nitrate as N	**12.0**		2.16	0.271	mg/Kg	☼		08/12/20 00:54	1
Fluoride	**9.65**		2.16	0.648	mg/Kg	☼		08/12/20 00:54	1
Nitrite as N	0.320	U	2.16	0.320	mg/Kg	☼		08/12/20 00:54	1
Sulfate	**194**		5.39	1.03	mg/Kg	☼		08/12/20 00:54	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807

Date Collected: 08/07/20 12:59
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-3

Matrix: Solid
Percent Solids: 92.8

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	0.0988	0.0224	mg/Kg		08/12/20 15:04	08/13/20 23:58	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0425	U	0.198	0.0425	mg/Kg		08/12/20 15:04	08/13/20 23:58	1
2,4,6-Trinitrotoluene	0.0303	U	0.0988	0.0303	mg/Kg		08/12/20 15:04	08/13/20 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*08/12/20 15:04*	*08/13/20 23:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0849	U	0.515	0.0849	ug/Kg	☼	08/12/20 11:00	08/20/20 16:24	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.243	U	0.845	0.243	ug/Kg	☼	08/17/20 14:49	08/24/20 14:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.296	U	0.845	0.296	ug/Kg	☼	08/17/20 14:49	08/24/20 14:33	1
Perfluorooctanesulfonic acid (PFOS)	0.148	U	0.845	0.148	ug/Kg	☼	08/17/20 14:49	08/24/20 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 14:33*	*1*
13C8 PFOS	*97*		*70 - 130*	*08/17/20 14:49*	*08/24/20 14:33*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.685	U	1.83	0.685	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Arsenic	**4.33**	**J**	9.14	3.65	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Barium	**209**		18.3	4.57	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Beryllium	0.365	U	0.914	0.365	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Cadmium	0.219	U	0.457	0.219	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Chromium	4.11	U	9.14	4.11	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Iron	**1740**		110	54.8	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Copper	3.65	U	9.14	3.65	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Manganese	**21.1**		4.57	1.83	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Lead	1.14	U	2.74	1.14	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Antimony	1.83	U	4.57	1.83	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Selenium	2.92	U	4.57	2.92	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Thallium	1.83	U	4.57	1.83	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Zinc	18.3	U	45.7	18.3	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20
Uranium	0.365	U	0.914	0.365	mg/Kg	☼	09/04/20 10:33	09/09/20 19:55	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00584**	**J**	0.0172	0.00362	mg/Kg	☼	09/02/20 13:16	09/03/20 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**92.8**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0191	U	0.127	0.0191	mg/Kg	☼	08/20/20 13:55	08/20/20 17:49	1
pH	**9.1**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.450	U	0.537	0.450	mg/Kg	☼	08/21/20 12:16	08/21/20 13:50	1

Client Sample Results

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

Job ID: 600-209489-1

Client Sample ID: CELL20-SQUARE15-S-2-3-200807
Date Collected: 08/07/20 12:59
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209489-3
Matrix: Solid
Percent Solids: 92.8

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**144**		10.0	10.0	mg/L			08/17/20 11:57	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	**1.04**		0.140	0.177	1.00	0.0761	pCi/g	08/17/20 17:22	09/08/20 13:55	1
Radium-228	0.0652	U	0.182	0.183		0.209	pCi/g	08/17/20 17:22	09/08/20 13:55	1
Combined Radium 226 + 228	**1.10**		0.230	0.255		0.209	pCi/g	08/17/20 17:22	09/08/20 13:55	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

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

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
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.

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: 600-209489-1
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

Surrogate Summary

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

Job ID: 600-209489-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	103	89	88	103
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	99	88	83	111
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	102	86	87	108
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	46	79	69	76	103	73
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	32	88	85	86	103	83
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	66	78	77	76	102	63
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	80
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	60
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	76
LCS 400-500724/2-A	Lab Control Sample	87
MB 400-500724/1-A	Method Blank	75

Surrogate Summary

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

Job ID: 600-209489-1

Surrogate Legend
TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	101
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	104
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	100

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

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	(60-140)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	74
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	135
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	121
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend
OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(47-150)	(50-143)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	95	80
600-209489-2	CELL20-SQUARE204-S-2-3-20 0807	111	81
600-209489-3	CELL20-SQUARE15-S-2-3-200 807	84	88
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	87	109
600-209489-2	CELL20-SQUARE204-S-2-3-200807	57	84
600-209489-3	CELL20-SQUARE15-S-2-3-200807	271 X	386 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	104
600-209489-2	CELL20-SQUARE204-S-2-3-200807	102
600-209489-3	CELL20-SQUARE15-S-2-3-200807	103
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209489-1	CELL20-SQUARE79-S-2-3-2008	102	95
600-209489-2	CELL20-SQUARE204-S-2-3-200807	105	95
600-209489-3	CELL20-SQUARE15-S-2-3-200807	102	97
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

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: 600-209489-1

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

Lab Sample ID: MB 600-301050/6
Matrix: Solid
Analysis Batch: 301050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*		*08/13/20 09:16*	*1*
Dibromofluoromethane	*90*		*68 - 140*		*08/13/20 09:16*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*		*08/13/20 09:16*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*		*08/13/20 09:16*	*1*

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCS 600-301050/3
Matrix: Solid
Analysis Batch: 301050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*
Dibromofluoromethane	*87*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*112*		*57 - 140*

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCSD 600-301050/4
Matrix: Solid
Analysis Batch: 301050

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
Chloromethane			50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride			50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane			50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane			50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein			250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene			50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether			50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride			50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile			500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene			50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride			50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene			50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane			50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene			50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane			50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane			50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane			50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane			1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform			50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane			50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene			50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene			50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene			50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane			50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene			50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total			100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane			50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene			50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene			50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total			100	98.14		ug/Kg		98	63 - 130	5	30
Styrene			50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane			50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane			50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene			50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene			50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane			50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
Dibromofluoromethane	*82*		*68 - 140*
Toluene-d8 (Surr)	*92*		*50 - 130*
4-Bromofluorobenzene	*103*		*57 - 140*

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

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

Job ID: 600-209489-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*38 - 130*
2-Fluorophenol	*91*		*25 - 132*
Nitrobenzene-d5	*95*		*10 - 155*
Terphenyl-d14	*112*		*53 - 134*
Phenol-d5 (Surr)	*93*		*27 - 130*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/18/20 13:25	08/20/20 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*75*		*30 - 164*	*08/18/20 13:25*	*08/20/20 15:59*	*1*

Lab Sample ID: LCS 400-500724/2-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	333	252.5		ug/Kg		76	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*87*		*30 - 164*

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

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*47 - 150*	*08/11/20 08:51*	*08/11/20 19:37*	*1*
Tetrachloro-m-xylene	*116*		*50 - 143*	*08/11/20 08:51*	*08/11/20 19:37*	*1*

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			16.6	18.06		ug/Kg		109	42 - 150		
Hexachlorocyclohexane, beta-			16.6	18.03		ug/Kg		108	32 - 150		

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin	16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde	16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor	16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide	16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

QC Sample Results

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

Job ID: 600-209489-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

QC Sample Results

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

Job ID: 600-209489-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 16:41*	*1*

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*106*		*83 - 122*

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

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

QC Sample Results

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

Job ID: 600-209489-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

QC Sample Results

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

Job ID: 600-209489-1

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

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

QC Sample Results

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

Job ID: 600-209489-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Lab Sample ID: 600-209489-2 DU
Matrix: Solid
Analysis Batch: 301367

Client Sample ID: CELL20-SQUARE204-S-2-3-200807
Prep Type: 7 Day Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	87.0		91.00		mg/L		4	10

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301738/1-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301712/1-A
Matrix: Solid
Analysis Batch: 301753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301712

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/20/20 12:06	08/20/20 16:09	1

QC Sample Results

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

Job ID: 600-209489-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation) (Continued)

Lab Sample ID: LCS 600-301712/2-A
Matrix: Solid
Analysis Batch: 301753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09758		mg/Kg		98	90 - 110

Lab Sample ID: MB 600-301825/1-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

Lab Sample ID: LCS 600-301825/2-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A
Matrix: Solid
Analysis Batch: 481714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

QC Association Summary

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

Job ID: 600-209489-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8270D	500724

QC Association Summary

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

Job ID: 600-209489-1

GC/MS Semi VOA (Continued)

Analysis Batch: 501018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	5030B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3546	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3546	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

QC Association Summary

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

Job ID: 600-209489-1

GC Semi VOA

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8082	300862
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8082	300862
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8082	300862

Analysis Batch: 301106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8081A	300862

Analysis Batch: 302135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8081A	300862

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	300.0	300916
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Soluble	Solid	DI Leach	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Soluble	Solid	DI Leach	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8330B	505294

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

HPLC/IC (Continued)

Prep Batch: 505436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6860	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6860	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6860	505376
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6860	505376
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864

QC Association Summary

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

Job ID: 600-209489-1

LCMS (Continued)

Analysis Batch: 506717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	7471B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	7471B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	3050B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	3050B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	6020	481632
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	6020	481632
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	2540B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	2540B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-209489-2 DU	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	335.521	

QC Association Summary

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

Job ID: 600-209489-1

General Chemistry

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209489-2	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209489-3	CELL20-SQUARE15-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322
600-209489-2 DU	CELL20-SQUARE204-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301712/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9012B	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9012B	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9066	301712
MB 600-301712/1-A	Method Blank	Total/NA	Solid	9066	301712
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	9066	301712

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9066	301825
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	9045D	

QC Association Summary

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

Job ID: 600-209489-1

General Chemistry (Continued)

Analysis Batch: 302075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	9045D	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209489-1	CELL20-SQUARE79-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209489-2	CELL20-SQUARE204-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209489-3	CELL20-SQUARE15-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE79-S-2-3-200807
Lab Sample ID: 600-209489-1
Date Collected: 08/07/20 11:35
Matrix: Solid
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.83 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:12	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.01 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			309 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481706	09/08/20 15:04	SCB	TAL SL

Client Sample ID: CELL20-SQUARE79-S-2-3-200807
Lab Sample ID: 600-209489-1
Date Collected: 08/07/20 11:35
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.36 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:58	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 19:14	RP	TAL HOU
Total/NA	Prep	3546			15.46 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 19:44	PP1	TAL PEN
Total/NA	Prep	5030B			10.66 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 13:17	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 20:52	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 12:58	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 13:21	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:32	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:32	W1N	TAL HOU
Total/NA	Prep	6860			10.33 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:59	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.34 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:15	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5548 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:48	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:05	DCL	TAL HOU
Total/NA	Prep	9012B			0.527 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:46	AML	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE79-S-2-3-200807 Lab Sample ID: 600-209489-1

Date Collected: 08/07/20 11:35 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.506 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 16:01	AML	TAL HOU

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:35	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.11 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			389.8 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481722	09/08/20 12:56	SCB	TAL SL

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.58 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 14:22	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 19:39	RP	TAL HOU
Total/NA	Prep	3546			15.12 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:09	PP1	TAL PEN
Total/NA	Prep	5030B			9.35 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 13:42	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 21:25	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			302135	08/26/20 12:07	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 13:47	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:53	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:53	W1N	TAL HOU
Total/NA	Prep	6860			10.79 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:04	TMC	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE204-S-2-3-200807 Lab Sample ID: 600-209489-2

Date Collected: 08/07/20 12:13 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.175 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:24	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5034 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:51	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:07	DCL	TAL HOU
Total/NA	Prep	9012B			0.512 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:49	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.505 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:49	AML	TAL HOU

Client Sample ID: CELL20-SQUARE15-S-2-3-200807 Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59 **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.12 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 23:58	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			410.7 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481717	09/08/20 13:55	SCB	TAL SL

Client Sample ID: CELL20-SQUARE15-S-2-3-200807 Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.24 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 14:46	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:03	RP	TAL HOU
Total/NA	Prep	3546			15.20 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:34	PP1	TAL PEN
Total/NA	Prep	5030B			10.07 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:07	WS1	TAL HOU
Total/NA	Prep	3546			10.09 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 21:59	RJV	TAL HOU
Total/NA	Prep	3546			15.04 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 13:47	JAL	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE15-S-2-3-200807
Lab Sample ID: 600-209489-3

Date Collected: 08/07/20 12:59
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 14:12	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 00:54	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 00:54	W1N	TAL HOU
Total/NA	Prep	6860			10.46 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:24	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.199 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:33	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5898 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:55	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:14	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:49	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:50	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209489-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

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

Job ID: 600-209489-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Std			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 60012538			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site: Landfarm				

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	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:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell20-Square79-S-2-3-200807	8/07/20	1135	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell20-Square204-S-2-3-200807	8/07/20	1213	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell20-Square155-S-2-3-200807	8/07/20	1259	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/07/20 Q/S

600-209489 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		08/07/20	Arcadis	YCRS	8/8/20 1005	ETA
2						
3						

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

Ver: 01/16/2019

Eurofins TestAmerica Houston

Loc: 600
209489

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

'20 AUG 8 10:05

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: JP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
5173	Y / N	Y / N	3.4	680	+0.1	3.5
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/8/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209489-1
Address: 13715 Rider Trail North,	Due Date Requested: 8/20/2020			
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 #: 60012538			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
Preservation Code:											
CELL20-SQUARE79-S-2-3-200807 (600-209489-1)	8/7/20	11:35 Central		Solid			X	X	X	3	
CELL20-SQUARE204-S-2-3-200807 (600-209489-2)	8/7/20	12:13 Central		Solid			X	X	X	2	-3 rec'd @ ETASTL
CELL20-SQUARE15-S-2-3-200807 (600-209489-3)	8/7/20	12:59 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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] Jones	8/10/20 13:00	ETA	FE		
2	FE			[signature]	8/11/20 09:18	ETASTL
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45917.1
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 #: 600-209489-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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=wasteoil, 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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL20-SQUARE79-S-2-3-200807 (600-209489-1)	8/7/20	11:35 Central		Solid			X	X	X	3	
CELL20-SQUARE204-S-2-3-200807 (600-209489-2)	8/7/20	12:13 Central		Solid			X	X	X	3	
CELL20-SQUARE15-S-2-3-200807 (600-209489-3)	8/7/20	12:59 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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
Sandra Jones	8/10/20 13:00	ETA	D Ter	8-11-20 0915	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: 5.6, 1.9, IR10, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45918.1
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 #: 600-209489-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/26/2020			Preservation Codes:
City: Pensacola	TAT Requested (days):			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)
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: Chevron - Jal Land Farm Soils	Project #: 60012538			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Sesolid, Owaste/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-SQUARE79-S-2-3-200807 (600-209489-1)	8/7/20	11:35 Central		Solid			X	1	
CELL20-SQUARE204-S-2-3-200807 (600-209489-2)	8/7/20	12:13 Central		Solid			X	1	
CELL20-SQUARE15-S-2-3-200807 (600-209489-3)	8/7/20	12:59 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmenca 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/10/20 13:00	EA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 8-12-20 0926	Company: TAPEN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR-7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209489-1

Login Number: 209489 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	3.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209489-1

Login Number: 209489 **List Source: Eurofins TestAmerica, Denver**
List Number: 3 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209489-1

Login Number: 209489
List Number: 4
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209489-1

Login Number: 209489
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/11/20 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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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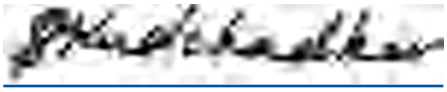
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209490-1
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:
9/21/2020 4:35:19 PM

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

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209490-1

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Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209490-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA
Method 8270D: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE27-S-2-3-200807 (600-209490-2). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Bot sets of data have been reported.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

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

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

GC Semi VOA
Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%),4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8081A: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE43-S-2-3-200807 (600-209490-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 was outside the upper control limits.

Method 8082: Surrogate recovery for the following sample was outside control limits: CELL19-SQUARE43-S-2-3-200807 (600-209490-3). 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.

RAD
Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639
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:

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209490-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Inferred from	Reported to Analyte
Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2), CELL19-SQUARE43-S-2-3-200807 (600-209490-3), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The following samples were diluted due to the abundance of non-target analytes: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844
The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209490-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

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

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

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL19-SQUARE99-S-2-3-200807 (600-209490-1) and CELL19-SQUARE27-S-2-3-200807 (600-209490-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 3mL of 2.4M HCl to bring the pH below 7. CELL19-SQUARE43-S-2-3-200807 (600-209490-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL19-SQUARE99-S-2-3-200807 (600-209490-1), CELL19-SQUARE27-S-2-3-200807 (600-209490-2) and

Case Narrative

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

Job ID: 600-209490-1

Job ID: 600-209490-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

CELL19-SQUARE43-S-2-3-200807 (600-209490-3). The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

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

Job ID: 600-209490-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Solid	08/07/20 09:40	08/08/20 10:05	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Solid	08/07/20 10:26	08/08/20 10:05	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Solid	08/07/20 10:58	08/08/20 10:05	

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807
Date Collected: 08/07/20 09:40
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-1
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.00	U	12.1	2.00	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Vinyl chloride	1.08	U	12.1	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Bromomethane	1.00	U	12.1	1.00	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Trichlorofluoromethane	0.795	U	12.1	0.795	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Acrolein	7.51	U	30.1	7.51	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloroethene	1.47	U	6.03	1.47	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
trans-1,2-Dichloroethene	1.37	U	6.03	1.37	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Methyl tert-butyl ether	2.21	U	6.03	2.21	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Methylene Chloride	2.64	U	12.1	2.64	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Acrylonitrile	7.01	U	60.3	7.01	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
cis-1,2-Dichloroethene	1.00	U	6.03	1.00	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Carbon tetrachloride	1.36	U	6.03	1.36	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Benzene	0.759	U	6.03	0.759	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichloroethane	1.08	U	6.03	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Trichloroethene	1.69	U	6.03	1.69	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1,1-Trichloroethane	0.892	U	6.03	0.892	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloroethane	1.05	U	6.03	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichloropropane	0.856	U	6.03	0.856	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,4-Dioxane	74.8	U	603	74.8	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Chloroform	**2.31**	**J b**	12.1	0.795	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Bromodichloromethane	0.795	U	6.03	0.795	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1-Dichloropropene	0.783	U	6.03	0.783	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
cis-1,3-Dichloropropene	0.651	U	6.03	0.651	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Toluene	1.66	U	6.03	1.66	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
trans-1,3-Dichloropropene	0.699	U	6.03	0.699	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1,2-Trichloroethane	0.880	U	6.03	0.880	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Tetrachloroethene	0.856	U	6.03	0.856	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,3-Dichloropropene, Total	0.699	U	6.03	0.699	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,2-Dibromoethane	1.23	U	6.03	1.23	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Monochlorobenzene	1.16	U	6.03	1.16	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Ethylbenzene	1.23	U	6.03	1.23	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Xylenes, Total	1.36	U	6.03	1.36	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Styrene	0.856	U	6.03	0.856	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Tribromomethane	1.65	U	6.03	1.65	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,1,2,2-Tetrachloroethane	1.05	U	6.03	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,4-Dichlorobenzene	0.795	U	6.03	0.795	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,2-Dichlorobenzene	0.964	U	6.03	0.964	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
1,2,4-Trichlorobenzene	2.37	U	6.03	2.37	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1
Dichlorodifluoromethane	1.86	U	6.03	1.86	ug/Kg	☼	08/12/20 11:03	08/13/20 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*61 - 130*	*08/12/20 11:03*	*08/13/20 15:10*	*1*
Dibromofluoromethane	*91*		*68 - 140*	*08/12/20 11:03*	*08/13/20 15:10*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*	*08/12/20 11:03*	*08/13/20 15:10*	*1*
4-Bromofluorobenzene	*115*		*57 - 140*	*08/12/20 11:03*	*08/13/20 15:10*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.83	U	38.4	4.83	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodiethylamine	8.28	U	38.4	8.28	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807
Date Collected: 08/07/20 09:40
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-1
Matrix: Solid
Percent Solids: 86.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.4	1.90	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Hexachloroethane	2.66	U	38.4	2.66	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosopyrrolidine	5.38	U	38.4	5.38	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Nitrobenzene	3.41	U	38.4	3.41	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Isophorone	1.15	U	38.4	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2,4-Dichlorophenol	4.46	U	38.4	4.46	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Naphthalene	1.56	U	38.4	1.56	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Hexachlorobutadiene	2.21	U	38.4	2.21	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodi-n-butylamine	19.2	U	38.4	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2-Methylnaphthalene	3.16	U	38.4	3.16	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
1-Methylnaphthalene	1.81	U	38.4	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
1,2,4,5-Tetrachlorobenzene	7.78	U	38.4	7.78	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Hexachlorocyclopentadiene	5.32	U	38.4	5.32	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2,4,6-Trichlorophenol	3.09	U	38.4	3.09	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2,4,5-Trichlorophenol	11.5	U	38.4	11.5	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dimethyl phthalate	5.64	U	76.9	5.64	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Acenaphthylene	1.15	U	38.4	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2,6-Dinitrotoluene	3.40	U	38.4	3.40	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Acenaphthene	1.66	U	38.4	1.66	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dinitrophenols	5.44	U	115	5.44	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Pentachlorobenzene	4.62	U	38.4	4.62	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
2,4-Dinitrotoluene	4.16	U	38.4	4.16	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Diethyl phthalate	9.72	U	76.9	9.72	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Fluorene	2.72	U	38.4	2.72	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dinitro-o-cresol	5.74	U	196	5.74	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
N-Nitrosodiphenylamine	2.18	U	38.4	2.18	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Diphenylhydrazine, 1,2-	1.87	U	38.4	1.87	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Hexachlorobenzene	1.75	U	38.4	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Atrazine	5.79	U	38.4	5.79	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Pentachlorophenol	4.61	U	193	4.61	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Phenanthrene	5.71	U	38.4	5.71	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Anthracene	1.48	U	38.4	1.48	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dibutylphthalate	**8.51**	**J**	76.9	2.99	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Fluoranthene	3.59	U	38.4	3.59	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzidine	10.4	U	381	10.4	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Pyrene	2.11	U	38.4	2.11	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dichlorobenzidine, 3,3'-	11.7	U	38.4	11.7	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzo[a]anthracene	1.59	U	38.4	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Di (2-ethylhexyl)phthalate	**22.6**	**J**	38.4	6.19	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Chrysene	1.18	U	38.4	1.18	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzo[b]fluoranthene	1.98	U	38.4	1.98	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzo[k]fluoranthene	1.72	U	38.4	1.72	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzo[a]pyrene	1.86	U	38.4	1.86	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Indeno[1,2,3-cd]pyrene	4.04	U	38.4	4.04	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Dibenz(a,h)anthracene	4.19	U	38.4	4.19	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Benzo[g,h,i]perylene	5.85	U	38.4	5.85	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
bis (2-chloroisopropyl) ether	10.2	U	38.4	10.2	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.4	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 14:26	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Date Collected: 08/07/20 09:40
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-1

Matrix: Solid
Percent Solids: 86.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	32		10 - 148	08/12/20 11:16	08/17/20 14:26	1
2-Fluorobiphenyl	91		38 - 130	08/12/20 11:16	08/17/20 14:26	1
2-Fluorophenol	85		25 - 132	08/12/20 11:16	08/17/20 14:26	1
Nitrobenzene-d5	86		10 - 155	08/12/20 11:16	08/17/20 14:26	1
Terphenyl-d14	110		53 - 134	08/12/20 11:16	08/17/20 14:26	1
Phenol-d5 (Surr)	84		27 - 130	08/12/20 11:16	08/17/20 14:26	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.5	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	36		30 - 164	08/18/20 13:26	08/20/20 20:59	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.731	J	1.17	0.683	mg/Kg	☼	08/08/20 15:03	08/13/20 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130	08/08/20 15:03	08/13/20 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.65	J	8.58	2.94	mg/Kg	☼	08/10/20 15:56	08/13/20 19:12	1
C28-C36	38.2		8.58	8.58	mg/Kg	☼	08/10/20 15:56	08/13/20 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	107		60 - 140	08/10/20 15:56	08/13/20 19:12	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
DDT	2.12	U	3.79	2.12	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1
Toxaphene	83.9	U	195	83.9	ug/Kg	☼	08/11/20 08:51	08/12/20 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		47 - 150	08/11/20 08:51	08/12/20 00:33	1
Tetrachloro-m-xylene	86		50 - 143	08/11/20 08:51	08/12/20 00:33	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Date Collected: 08/07/20 09:40
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-1

Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1232	0.00769	U	0.0192	0.00769	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☼	08/11/20 08:51	08/12/20 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*10 - 150*	*08/11/20 08:51*	*08/12/20 18:12*	*1*
DCB Decachlorobiphenyl	*108*		*10 - 150*	*08/11/20 08:51*	*08/12/20 18:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.90**		4.62	0.617	mg/Kg	☼		08/12/20 01:14	1
Nitrate as N	**13.7**		2.31	0.290	mg/Kg	☼		08/12/20 01:14	1
Fluoride	**5.45**		2.31	0.694	mg/Kg	☼		08/12/20 01:14	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☼		08/12/20 01:14	1
Sulfate	**262**		5.77	1.10	mg/Kg	☼		08/12/20 01:14	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		08/12/20 15:04	08/14/20 00:44	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/12/20 15:04	08/14/20 00:44	1
2,4,6-Trinitrotoluene	0.0303	U	0.0986	0.0303	mg/Kg		08/12/20 15:04	08/14/20 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/14/20 00:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0922	U	0.559	0.0922	ug/Kg	☼	08/12/20 11:00	08/20/20 16:30	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.255	U	0.888	0.255	ug/Kg	☼	08/17/20 14:49	08/24/20 14:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.311	U	0.888	0.311	ug/Kg	☼	08/17/20 14:49	08/24/20 14:50	1
Perfluorooctanesulfonic acid (PFOS)	0.155	U	0.888	0.155	ug/Kg	☼	08/17/20 14:49	08/24/20 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*08/17/20 14:49*	*08/24/20 14:50*	*1*
13C8 PFOS	*93*		*70 - 130*	*08/17/20 14:49*	*08/24/20 14:50*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.754	U	2.01	0.754	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Arsenic	4.02	U	10.1	4.02	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Barium	**312**		20.1	5.03	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Beryllium	0.402	U	1.01	0.402	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Cadmium	0.241	U	0.503	0.241	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Chromium	4.53	U	10.1	4.53	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE99-S-2-3-200807 Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2510**		121	60.3	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Copper	4.02	U	10.1	4.02	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Manganese	**18.6**		5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Lead	**1.28**	**J**	3.02	1.26	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Antimony	2.01	U	5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Selenium	3.22	U	5.03	3.22	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Thallium	2.01	U	5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Zinc	20.1	U	50.3	20.1	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20
Uranium	0.402	U	1.01	0.402	mg/Kg	☼	09/04/20 10:33	09/09/20 19:58	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00413	U	0.0196	0.00413	mg/Kg	☼	09/02/20 13:16	09/03/20 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**86.6**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0196	U	0.131	0.0196	mg/Kg	☼	08/20/20 13:55	08/20/20 17:52	1
pH	**8.8**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.481	U	0.574	0.481	mg/Kg	☼	08/21/20 12:16	08/21/20 13:52	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**132**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.392**		0.122	0.128	1.00	0.112	pCi/g	08/17/20 17:22	09/08/20 17:34	1
Radium-228	0.112	U	0.180	0.180		0.210	pCi/g	08/17/20 17:22	09/08/20 17:34	1
Combined Radium 226 + 228	**0.504**		0.217	0.221		0.210	pCi/g	08/17/20 17:22	09/08/20 17:34	1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.87	U	11.2	1.87	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Vinyl chloride	1.01	U	11.2	1.01	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Bromomethane	0.933	U	11.2	0.933	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Trichlorofluoromethane	0.742	U	11.2	0.742	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Acrolein	7.01	U	28.1	7.01	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloroethene	1.37	U	5.62	1.37	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
trans-1,2-Dichloroethene	1.28	U	5.62	1.28	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Methyl tert-butyl ether	2.06	U	5.62	2.06	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Methylene Chloride	**4.69**	**J**	11.2	2.46	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Acrylonitrile	6.54	U	56.2	6.54	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 **Lab Sample ID: 600-209490-2**
Date Collected: 08/07/20 10:26 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.933	U	5.62	0.933	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Carbon tetrachloride	1.27	U	5.62	1.27	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Benzene	**1.55**	**J**	5.62	0.708	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichloroethane	1.01	U	5.62	1.01	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Trichloroethene	1.57	U	5.62	1.57	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1,1-Trichloroethane	0.832	U	5.62	0.832	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloroethane	0.978	U	5.62	0.978	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichloropropane	0.798	U	5.62	0.798	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,4-Dioxane	69.8	U	562	69.8	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Chloroform	**2.27**	**J b**	11.2	0.742	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Bromodichloromethane	0.742	U	5.62	0.742	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1-Dichloropropene	0.731	U	5.62	0.731	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
cis-1,3-Dichloropropene	0.607	U	5.62	0.607	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Toluene	1.55	U	5.62	1.55	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
trans-1,3-Dichloropropene	0.652	U	5.62	0.652	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1,2-Trichloroethane	0.821	U	5.62	0.821	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Tetrachloroethene	0.798	U	5.62	0.798	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,3-Dichloropropene, Total	0.652	U	5.62	0.652	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,2-Dibromoethane	1.15	U	5.62	1.15	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Monochlorobenzene	1.08	U	5.62	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Ethylbenzene	1.15	U	5.62	1.15	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Xylenes, Total	1.27	U	5.62	1.27	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Styrene	0.798	U	5.62	0.798	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Tribromomethane	1.54	U	5.62	1.54	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,1,2,2-Tetrachloroethane	0.978	U	5.62	0.978	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,4-Dichlorobenzene	0.742	U	5.62	0.742	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,2-Dichlorobenzene	0.900	U	5.62	0.900	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
1,2,4-Trichlorobenzene	2.22	U	5.62	2.22	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1
Dichlorodifluoromethane	1.73	U	5.62	1.73	ug/Kg	☼	08/12/20 11:03	08/13/20 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 130*	*08/12/20 11:03*	*08/13/20 15:34*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*08/12/20 11:03*	*08/13/20 15:34*	*1*
Toluene-d8 (Surr)	*87*		*50 - 130*	*08/12/20 11:03*	*08/13/20 15:34*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*08/12/20 11:03*	*08/13/20 15:34*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.69	U	37.3	4.69	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodiethylamine	8.04	U	37.3	8.04	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Bis(2-chloroethyl)ether	1.85	U	37.3	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Hexachloroethane	2.59	U	37.3	2.59	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosopyrrolidine	5.23	U	37.3	5.23	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Nitrobenzene	3.32	U	37.3	3.32	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Isophorone	1.12	U	37.3	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2,4-Dichlorophenol	4.33	U	37.3	4.33	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Naphthalene	1.51	U	37.3	1.51	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Hexachlorobutadiene	2.15	U	37.3	2.15	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodi-n-butylamine	18.7	U	37.3	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2-Methylnaphthalene	3.07	U	37.3	3.07	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807
Date Collected: 08/07/20 10:26
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-2
Matrix: Solid
Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.76	U	37.3	1.76	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
1,2,4,5-Tetrachlorobenzene	7.56	U	37.3	7.56	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Hexachlorocyclopentadiene	5.16	U	37.3	5.16	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2,4,6-Trichlorophenol	3.00	U	37.3	3.00	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2,4,5-Trichlorophenol	11.2	U	37.3	11.2	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dimethyl phthalate	5.48	U	74.7	5.48	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Acenaphthylene	1.12	U	37.3	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2,6-Dinitrotoluene	3.30	U	37.3	3.30	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Acenaphthene	1.61	U	37.3	1.61	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dinitrophenols	5.29	U	112	5.29	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Pentachlorobenzene	4.49	U	37.3	4.49	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
2,4-Dinitrotoluene	4.04	U	37.3	4.04	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Diethyl phthalate	9.44	U	74.7	9.44	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Fluorene	2.64	U	37.3	2.64	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dinitro-o-cresol	5.58	U	190	5.58	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
N-Nitrosodiphenylamine	2.12	U	37.3	2.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Diphenylhydrazine, 1,2-	1.81	U	37.3	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Hexachlorobenzene	1.70	U	37.3	1.70	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Atrazine	5.62	U	37.3	5.62	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Pentachlorophenol	4.48	U	187	4.48	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Phenanthrene	5.54	U	37.3	5.54	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Anthracene	1.43	U	37.3	1.43	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dibutylphthalate	**11.6**	**J**	74.7	2.90	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Fluoranthene	3.48	U	37.3	3.48	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzidine	10.1	U	370	10.1	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Pyrene	2.05	U	37.3	2.05	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dichlorobenzidine, 3,3'-	11.4	U	37.3	11.4	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzo[a]anthracene	1.55	U	37.3	1.55	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Di (2-ethylhexyl)phthalate	**23.8**	**J**	37.3	6.01	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Chrysene	1.14	U	37.3	1.14	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzo[b]fluoranthene	1.93	U	37.3	1.93	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzo[k]fluoranthene	1.67	U	37.3	1.67	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzo[a]pyrene	1.80	U	37.3	1.80	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Indeno[1,2,3-cd]pyrene	3.92	U	37.3	3.92	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Dibenz(a,h)anthracene	4.07	U	37.3	4.07	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Benzo[g,h,i]perylene	5.68	U	37.3	5.68	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
bis (2-chloroisopropyl) ether	9.90	U	37.3	9.90	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.3	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*32*		*10 - 148*	*08/12/20 11:16*	*08/17/20 14:50*	*1*
2-Fluorobiphenyl	*85*		*38 - 130*	*08/12/20 11:16*	*08/17/20 14:50*	*1*
2-Fluorophenol	*78*		*25 - 132*	*08/12/20 11:16*	*08/17/20 14:50*	*1*
Nitrobenzene-d5	*81*		*10 - 155*	*08/12/20 11:16*	*08/17/20 14:50*	*1*
Terphenyl-d14	*105*		*53 - 134*	*08/12/20 11:16*	*08/17/20 14:50*	*1*
Phenol-d5 (Surr)	*79*		*27 - 130*	*08/12/20 11:16*	*08/17/20 14:50*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.2	U	72.6	13.2	ug/Kg	☼	08/18/20 13:26	08/20/20 21:24	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807
Date Collected: 08/07/20 10:26
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-2
Matrix: Solid
Percent Solids: 88.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*0*	*X*	*30 - 164*	*08/18/20 13:26*	*08/20/20 21:24*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.664	U	1.13	0.664	mg/Kg	☼	08/08/20 15:03	08/13/20 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/08/20 15:03*	*08/13/20 14:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.8**		8.43	2.88	mg/Kg	☼	08/10/20 15:56	08/13/20 19:45	1
C28-C36	**37.6**		8.43	8.43	mg/Kg	☼	08/10/20 15:56	08/13/20 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*97*		*60 - 140*	*08/10/20 15:56*	*08/13/20 19:45*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.91	1.47	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, beta-	1.15	U	1.91	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, delta-	0.956	U	1.91	0.956	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, alpha-	1.13	U	1.91	1.13	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Hexachlorocyclohexane, gamma-	1.05	U	1.91	1.05	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Chlordane (technical)	26.3	U	84.4	26.3	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
DDT	2.08	U	3.71	2.08	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Dieldrin	1.56	U	3.71	1.56	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan I	1.13	U	1.91	1.13	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan II	1.70	U	3.71	1.70	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endosulfan sulfate	1.89	U	3.71	1.89	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endrin	1.72	U	3.71	1.72	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Endrin aldehyde	1.76	U	3.71	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Heptachlor	1.05	U	1.91	1.05	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Heptachlor epoxide	1.32	U	1.91	1.32	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1
Toxaphene	82.3	U	191	82.3	ug/Kg	☼	08/11/20 08:51	08/12/20 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*47*		*47 - 150*	*08/11/20 08:51*	*08/12/20 00:58*	*1*
Tetrachloro-m-xylene	*97*		*50 - 143*	*08/11/20 08:51*	*08/12/20 00:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0188	0.00180	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1221	0.00971	U	0.0188	0.00971	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1232	0.00754	U	0.0188	0.00754	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1248	0.00280	U	0.0188	0.00280	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	☼	08/11/20 08:51	08/13/20 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*106*		*10 - 150*	*08/11/20 08:51*	*08/13/20 11:39*	*1*

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE27-S-2-3-200807
Date Collected: 08/07/20 10:26
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-2
Matrix: Solid
Percent Solids: 88.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	120		10 - 150	08/11/20 08:51	08/13/20 11:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.75**	**J**	4.51	0.602	mg/Kg	☼		08/12/20 01:35	1
Nitrate as N	**8.80**		2.25	0.283	mg/Kg	☼		08/12/20 01:35	1
Fluoride	**9.08**		2.25	0.678	mg/Kg	☼		08/12/20 01:35	1
Nitrite as N	0.335	U	2.25	0.335	mg/Kg	☼		08/12/20 01:35	1
Sulfate	**101**		5.63	1.08	mg/Kg	☼		08/12/20 01:35	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		08/12/20 15:04	08/14/20 01:07	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0416	U	0.193	0.0416	mg/Kg		08/12/20 15:04	08/14/20 01:07	1
2,4,6-Trinitrotoluene	0.0297	U	0.0967	0.0297	mg/Kg		08/12/20 15:04	08/14/20 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	100		83 - 122	08/12/20 15:04	08/14/20 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0910	U	0.552	0.0910	ug/Kg	☼	08/12/20 11:00	08/20/20 16:35	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.240	U	0.836	0.240	ug/Kg	☼	08/17/20 14:49	08/24/20 14:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.293	U	0.836	0.293	ug/Kg	☼	08/17/20 14:49	08/24/20 14:59	1
Perfluorooctanesulfonic acid (PFOS)	0.146	U	0.836	0.146	ug/Kg	☼	08/17/20 14:49	08/24/20 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	101		57 - 153	08/17/20 14:49	08/24/20 14:59	1
13C8 PFOS	103		70 - 130	08/17/20 14:49	08/24/20 14:59	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.807	U	2.15	0.807	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Arsenic	4.30	U	10.8	4.30	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Barium	**420**		21.5	5.38	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Beryllium	0.430	U	1.08	0.430	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Cadmium	0.258	U	0.538	0.258	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Chromium	4.84	U	10.8	4.84	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Iron	**1290**		129	64.5	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Copper	4.30	U	10.8	4.30	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Manganese	**15.9**		5.38	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Lead	1.34	U	3.23	1.34	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Antimony	2.15	U	5.38	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Selenium	3.44	U	5.38	3.44	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Thallium	2.15	U	5.38	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Zinc	21.5	U	53.8	21.5	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20
Uranium	0.430	U	1.08	0.430	mg/Kg	☼	09/04/20 10:33	09/09/20 20:01	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 88.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00390	U	0.0185	0.00390	mg/Kg	☼	09/02/20 13:16	09/03/20 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**88.8**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0200	U	0.133	0.0200	mg/Kg	☼	08/20/20 13:55	08/20/20 17:53	1
pH	**8.8**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.470	U	0.560	0.470	mg/Kg	☼	08/21/20 12:16	08/21/20 13:53	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**116**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.546**		0.150	0.160	1.00	0.0960	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Radium-228	0.0103	U	0.0316	0.0316		0.428	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Combined Radium 226 + 228	**0.557**		0.153	0.163		0.428	pCi/g	08/17/20 17:22	09/08/20 17:37	1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807 Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.04	U	12.3	2.04	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Vinyl chloride	1.10	U	12.3	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Trichlorofluoromethane	0.809	U	12.3	0.809	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Acrolein	7.64	U	30.7	7.64	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloroethene	1.50	U	6.13	1.50	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
trans-1,2-Dichloroethene	1.40	U	6.13	1.40	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Methyl tert-butyl ether	2.24	U	6.13	2.24	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Methylene Chloride	**4.76**	**J**	12.3	2.69	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Acrylonitrile	7.14	U	61.3	7.14	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
cis-1,2-Dichloroethene	1.02	U	6.13	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Carbon tetrachloride	1.39	U	6.13	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Benzene	**2.85**	**J**	6.13	0.773	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichloroethane	1.10	U	6.13	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Trichloroethene	1.72	U	6.13	1.72	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1,1-Trichloroethane	0.907	U	6.13	0.907	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloroethane	1.07	U	6.13	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichloropropane	0.871	U	6.13	0.871	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,4-Dioxane	76.1	U	613	76.1	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Chloroform	**2.51**	**J b**	12.3	0.809	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Bromodichloromethane	0.809	U	6.13	0.809	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1-Dichloropropene	0.797	U	6.13	0.797	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE43-S-2-3-200807 **Lab Sample ID: 600-209490-3**
Date Collected: 08/07/20 10:58 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 86.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.662	U	6.13	0.662	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Toluene	1.69	U	6.13	1.69	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
trans-1,3-Dichloropropene	0.711	U	6.13	0.711	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1,2-Trichloroethane	0.895	U	6.13	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Tetrachloroethene	0.871	U	6.13	0.871	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,3-Dichloropropene, Total	0.711	U	6.13	0.711	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,2-Dibromoethane	1.25	U	6.13	1.25	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Monochlorobenzene	1.18	U	6.13	1.18	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Ethylbenzene	1.25	U	6.13	1.25	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Xylenes, Total	1.39	U	6.13	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Styrene	0.871	U	6.13	0.871	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Tribromomethane	1.68	U	6.13	1.68	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,1,2,2-Tetrachloroethane	1.07	U	6.13	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,4-Dichlorobenzene	0.809	U	6.13	0.809	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,2-Dichlorobenzene	0.981	U	6.13	0.981	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
1,2,4-Trichlorobenzene	2.42	U	6.13	2.42	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1
Dichlorodifluoromethane	1.89	U	6.13	1.89	ug/Kg	☼	08/12/20 11:03	08/13/20 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*	*08/12/20 11:03*	*08/13/20 15:58*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/12/20 11:03*	*08/13/20 15:58*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*08/12/20 11:03*	*08/13/20 15:58*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*	*08/12/20 11:03*	*08/13/20 15:58*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.81	U	38.3	4.81	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodiethylamine	8.25	U	38.3	8.25	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Bis(2-chloroethyl)ether	1.90	U	38.3	1.90	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Hexachloroethane	2.65	U	38.3	2.65	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosopyrrolidine	5.36	U	38.3	5.36	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Nitrobenzene	3.40	U	38.3	3.40	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Isophorone	1.15	U	38.3	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2,4-Dichlorophenol	4.45	U	38.3	4.45	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Naphthalene	1.55	U	38.3	1.55	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Hexachlorobutadiene	2.21	U	38.3	2.21	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodi-n-butylamine	19.1	U	38.3	19.1	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2-Methylnaphthalene	**3.99**	**J**	38.3	3.15	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
1-Methylnaphthalene	**2.36**	**J**	38.3	1.80	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
1,2,4,5-Tetrachlorobenzene	7.75	U	38.3	7.75	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Hexachlorocyclopentadiene	5.30	U	38.3	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2,4,6-Trichlorophenol	3.08	U	38.3	3.08	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2,4,5-Trichlorophenol	11.5	U	38.3	11.5	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dimethyl phthalate	5.62	U	76.6	5.62	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Acenaphthylene	1.15	U	38.3	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2,6-Dinitrotoluene	3.39	U	38.3	3.39	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Acenaphthene	1.65	U	38.3	1.65	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dinitrophenols	5.42	U	115	5.42	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Pentachlorobenzene	4.61	U	38.3	4.61	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
2,4-Dinitrotoluene	4.15	U	38.3	4.15	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807
Date Collected: 08/07/20 10:58
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-3
Matrix: Solid
Percent Solids: 86.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.68	U	76.6	9.68	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Fluorene	2.71	U	38.3	2.71	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dinitro-o-cresol	5.72	U	195	5.72	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
N-Nitrosodiphenylamine	2.17	U	38.3	2.17	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Diphenylhydrazine, 1,2-	1.86	U	38.3	1.86	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Hexachlorobenzene	1.75	U	38.3	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Atrazine	5.77	U	38.3	5.77	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Pentachlorophenol	4.59	U	192	4.59	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Phenanthrene	5.69	U	38.3	5.69	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Anthracene	1.47	U	38.3	1.47	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dibutylphthalate	2.98	U	76.6	2.98	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Fluoranthene	3.57	U	38.3	3.57	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzidine	10.4	U	379	10.4	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Pyrene	2.10	U	38.3	2.10	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dichlorobenzidine, 3,3'-	11.7	U	38.3	11.7	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzo[a]anthracene	1.59	U	38.3	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Di (2-ethylhexyl)phthalate	**22.2**	**J**	38.3	6.17	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Chrysene	1.17	U	38.3	1.17	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzo[b]fluoranthene	1.98	U	38.3	1.98	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzo[k]fluoranthene	1.71	U	38.3	1.71	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzo[a]pyrene	1.85	U	38.3	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Indeno[1,2,3-cd]pyrene	4.02	U	38.3	4.02	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Dibenz(a,h)anthracene	4.17	U	38.3	4.17	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Benzo[g,h,i]perylene	5.82	U	38.3	5.82	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
bis (2-chloroisopropyl) ether	10.2	U	38.3	10.2	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1
Thiophene, tetrahydro-, 1,1-dioxide	19.1	U	38.3	19.1	ug/Kg	☼	08/12/20 11:16	08/17/20 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*10 - 148*	*08/12/20 11:16*	*08/17/20 15:15*	*1*
2-Fluorobiphenyl	*82*		*38 - 130*	*08/12/20 11:16*	*08/17/20 15:15*	*1*
2-Fluorophenol	*74*		*25 - 132*	*08/12/20 11:16*	*08/17/20 15:15*	*1*
Nitrobenzene-d5	*79*		*10 - 155*	*08/12/20 11:16*	*08/17/20 15:15*	*1*
Terphenyl-d14	*110*		*53 - 134*	*08/12/20 11:16*	*08/17/20 15:15*	*1*
Phenol-d5 (Surr)	*70*		*27 - 130*	*08/12/20 11:16*	*08/17/20 15:15*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.7	U	75.6	13.7	ug/Kg	☼	08/18/20 13:26	08/20/20 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*84*		*30 - 164*	*08/18/20 13:26*	*08/20/20 21:49*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.699	U	1.19	0.699	mg/Kg	☼	08/13/20 07:54	08/13/20 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*08/13/20 07:54*	*08/13/20 15:46*	*1*

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Date Collected: 08/07/20 10:58
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-3

Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.73**	**J**	8.59	2.94	mg/Kg	☼	08/10/20 15:56	08/13/20 20:18	1
C28-C36	**37.2**		8.59	8.59	mg/Kg	☼	08/10/20 15:56	08/13/20 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*60 - 140*	*08/10/20 15:56*	*08/13/20 20:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
DDT	2.13	U	3.79	2.13	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☼	08/11/20 08:51	08/12/20 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*47 - 150*	*08/11/20 08:51*	*08/12/20 01:22*	*1*
Tetrachloro-m-xylene	*149*	*X*	*50 - 143*	*08/11/20 08:51*	*08/12/20 01:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1232	0.00770	U	0.0192	0.00770	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☼	08/11/20 08:51	08/13/20 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*161*	*X*	*10 - 150*	*08/11/20 08:51*	*08/13/20 12:05*	*1*
DCB Decachlorobiphenyl	*184*	*X*	*10 - 150*	*08/11/20 08:51*	*08/13/20 12:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.12**		4.60	0.614	mg/Kg	☼		08/12/20 01:55	1
Nitrate as N	**16.1**		2.30	0.289	mg/Kg	☼		08/12/20 01:55	1
Fluoride	**9.47**		2.30	0.692	mg/Kg	☼		08/12/20 01:55	1
Nitrite as N	0.342	U	2.30	0.342	mg/Kg	☼		08/12/20 01:55	1
Sulfate	**286**		5.75	1.10	mg/Kg	☼		08/12/20 01:55	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807

Date Collected: 08/07/20 10:58
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-3

Matrix: Solid
Percent Solids: 86.9

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		08/12/20 15:04	08/14/20 01:30	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0422	U	0.196	0.0422	mg/Kg		08/12/20 15:04	08/14/20 01:30	1
2,4,6-Trinitrotoluene	0.0301	U	0.0980	0.0301	mg/Kg		08/12/20 15:04	08/14/20 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*101*		*83 - 122*	*08/12/20 15:04*	*08/14/20 01:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0891	U	0.541	0.0891	ug/Kg	☼	08/12/20 11:00	08/20/20 16:40	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.251	U	0.871	0.251	ug/Kg	☼	08/17/20 14:49	08/24/20 15:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.305	U	0.871	0.305	ug/Kg	☼	08/17/20 14:49	08/24/20 15:08	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.871	0.152	ug/Kg	☼	08/17/20 14:49	08/24/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 15:08*	*1*
13C8 PFOS	*93*		*70 - 130*	*08/17/20 14:49*	*08/24/20 15:08*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.833	U	2.22	0.833	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Arsenic	4.45	U	11.1	4.45	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Barium	**173**		22.2	5.56	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Beryllium	0.445	U	1.11	0.445	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Cadmium	0.267	U	0.556	0.267	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Chromium	5.00	U	11.1	5.00	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Iron	**2420**		133	66.7	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Copper	4.45	U	11.1	4.45	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Manganese	**20.1**		5.56	2.22	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Lead	1.39	U	3.33	1.39	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Antimony	2.22	U	5.56	2.22	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Selenium	3.56	U	5.56	3.56	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Thallium	2.22	U	5.56	2.22	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Zinc	22.2	U	55.6	22.2	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20
Uranium	0.445	U	1.11	0.445	mg/Kg	☼	09/04/20 10:33	09/09/20 20:05	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00374	U	0.0178	0.00374	mg/Kg	☼	09/04/20 10:03	09/04/20 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**86.9**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0204	U	0.136	0.0204	mg/Kg	☼	08/20/20 13:55	08/20/20 17:54	1
pH	**8.6**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.481	U	0.574	0.481	mg/Kg	☼	08/21/20 12:16	08/21/20 13:54	1

Client Sample Results

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE43-S-2-3-200807
Date Collected: 08/07/20 10:58
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209490-3
Matrix: Solid
Percent Solids: 86.9

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			08/17/20 11:57	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		0.145	0.151	1.00	0.149	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Radium-228	0.280		0.129	0.132		0.107	pCi/g	08/17/20 17:22	09/08/20 17:37	1
Combined Radium 226 + 228	0.680		0.194	0.201		0.149	pCi/g	08/17/20 17:22	09/08/20 17:37	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater then the UQL and the concentration is an estimated value.
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 VOA

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

GC Semi VOA

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

HPLC/IC

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

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
H	Sample was prepped or analyzed beyond the specified holding time
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: 600-209490-1
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

Surrogate Summary

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

Job ID: 600-209490-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209490-1	CELL19-SQUARE99-S-2-3-2008	105	91	92	115
600-209490-2	CELL19-SQUARE27-S-2-3-200807	104	89	87	108
600-209490-3	CELL19-SQUARE43-S-2-3-200807	99	86	86	102
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209490-1	CELL19-SQUARE99-S-2-3-2008	32	91	85	86	110	84
600-209490-2	CELL19-SQUARE27-S-2-3-200807	32	85	78	81	105	79
600-209490-3	CELL19-SQUARE43-S-2-3-200807	54	82	74	79	110	70
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209490-1	CELL19-SQUARE99-S-2-3-2008	36
600-209490-2	CELL19-SQUARE27-S-2-3-200807	0 X
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	92
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	65

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
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)
600-209490-3	CELL19-SQUARE43-S-2-3-200	84
LCS 400-500724/2-A	Lab Control Sample	87
LCS 400-501105/2-A	Lab Control Sample	101
MB 400-500724/1-A	Method Blank	75
MB 400-501105/1-A	Method Blank	96

Surrogate Legend
TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209490-1	CELL19-SQUARE99-S-2-3-200	95
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	95
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	102

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-209490-1	CELL19-SQUARE99-S-2-3-200	107
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	97
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	104
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend
OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209490-1	CELL19-SQUARE99-S-2-3-200	83	86
600-209490-2	CELL19-SQUARE27-S-2-3-200 807	47	97
600-209490-3	CELL19-SQUARE43-S-2-3-200 807	93	149 X
LCS 600-300862/2-A	Lab Control Sample	76	74

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(47-150)	(50-143)
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(10-150)	(10-150)
600-209490-1	CELL19-SQUARE99-S-2-3-200	84	108
600-209490-2	CELL19-SQUARE27-S-2-3-200807	106	120
600-209490-3	CELL19-SQUARE43-S-2-3-200807	161 X	184 X
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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)
600-209490-1	CELL19-SQUARE99-S-2-3-200	102
600-209490-2	CELL19-SQUARE27-S-2-3-200807	100
600-209490-3	CELL19-SQUARE43-S-2-3-200807	101
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209490-1	CELL19-SQUARE99-S-2-3-200	103	93
600-209490-2	CELL19-SQUARE27-S-2-3-200807	101	103
600-209490-3	CELL19-SQUARE43-S-2-3-200807	102	93

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
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)								
DLCK 280-500633/14	Lab Control Sample	108	91								
LCS 280-505864/2-A	Lab Control Sample	101	98								
MB 280-505864/1-A	Method Blank	104	94								

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: 600-209490-1

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

Lab Sample ID: MB 600-301050/6
Matrix: Solid
Analysis Batch: 301050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*		*08/13/20 09:16*	*1*
Dibromofluoromethane	*90*		*68 - 140*		*08/13/20 09:16*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*		*08/13/20 09:16*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*		*08/13/20 09:16*	*1*

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCS 600-301050/3
Matrix: Solid
Analysis Batch: 301050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*
Dibromofluoromethane	*87*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*112*		*57 - 140*

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCSD 600-301050/4
Matrix: Solid
Analysis Batch: 301050

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
Chloromethane			50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride			50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane			50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane			50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein			250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene			50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether			50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride			50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile			500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene			50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride			50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene			50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane			50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene			50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane			50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane			50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane			50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane			1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform			50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane			50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene			50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene			50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene			50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane			50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene			50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total			100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane			50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene			50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene			50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total			100	98.14		ug/Kg		98	63 - 130	5	30
Styrene			50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane			50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane			50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene			50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene			50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane			50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
Dibromofluoromethane	*82*		*68 - 140*
Toluene-d8 (Surr)	*92*		*50 - 130*
4-Bromofluorobenzene	*103*		*57 - 140*

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

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

Job ID: 600-209490-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/18/20 13:25	08/20/20 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	75		30 - 164	08/18/20 13:25	08/20/20 15:59	1

Lab Sample ID: LCS 400-500724/2-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	252.5		ug/Kg		76	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	87		30 - 164

Lab Sample ID: MB 400-501105/1-A
Matrix: Solid
Analysis Batch: 501404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 501105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/21/20 10:50	08/25/20 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	96		30 - 164	08/21/20 10:50	08/25/20 14:48	1

Lab Sample ID: LCS 400-501105/2-A
Matrix: Solid
Analysis Batch: 501404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 501105

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	340.2		ug/Kg		102	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	101		30 - 164

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: 600-209490-2 MS
Matrix: Solid
Analysis Batch: 501404

Client Sample ID: CELL19-SQUARE27-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 501105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	13.0	U	362	186.9		ug/Kg	☼	52	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*92*		*30 - 164*

Lab Sample ID: 600-209490-2 MSD
Matrix: Solid
Analysis Batch: 501404

Client Sample ID: CELL19-SQUARE27-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 501105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	13.0	U	367	237.5		ug/Kg	☼	65	40 - 140	24	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*65*		*30 - 164*

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

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	131		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Heptachlor epoxide			16.6	17.12		ug/Kg		103	42 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-			16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-			16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-			16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-			16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT			16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin			16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I			16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II			16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate			16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

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

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	165	X	10 - 150	08/11/20 08:51	08/12/20 12:54	1

Lab Sample ID: LCS 600-300862/4-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.166	0.1532		mg/Kg		92	42 - 130		
PCB-1260			0.166	0.1225		mg/Kg		74	59 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	85		10 - 150
DCB Decachlorobiphenyl	104		10 - 150

Lab Sample ID: LCSD 600-300862/5-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260			0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	78		10 - 150
DCB Decachlorobiphenyl	101		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

QC Sample Results

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

Job ID: 600-209490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 16:41*	*1*

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	1.051		mg/Kg		105	80 - 124		
2,4,6-Trinitrotoluene			1.00	1.050		mg/Kg		105	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*106*		*83 - 122*

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

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate			0.500	0.5330		ug/Kg		107	80 - 120		

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130		

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			0.455	0.4537	J	ug/L		100	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			0.464	0.665	U	ug/L		92	70 - 130		

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

QC Sample Results

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

Job ID: 600-209490-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

QC Sample Results

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

Job ID: 600-209490-1

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

Lab Sample ID: LCSSRM 160-481632/3-A ^10
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Lab Sample ID: MB 600-302874/7-A
Matrix: Solid
Analysis Batch: 302917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0159	0.00336	mg/Kg		09/04/20 10:03	09/04/20 14:07	1

QC Sample Results

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

Job ID: 600-209490-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 600-302874/8-A
Matrix: Solid
Analysis Batch: 302917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2383		mg/Kg		103	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301738/1-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Lab Sample ID: 600-209490-3 MS
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: CELL19-SQUARE43-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0204	U	1.31	0.1758	N1	mg/Kg	☼	13	90 - 110

Lab Sample ID: 600-209490-3 MSD
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: CELL19-SQUARE43-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0204	U	1.28	0.1632	N1	mg/Kg	☼	13	90 - 110	7	20

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301825/1-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

QC Sample Results

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

Job ID: 600-209490-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation) (Continued)

Lab Sample ID: LCS 600-301825/2-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A
Matrix: Solid
Analysis Batch: 481714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Lab Sample ID: LCS 160-479639/2-A
Matrix: Solid
Analysis Batch: 481712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479639

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	99.34		10.4		0.855	pCi/g	103	87 - 116
Cesium-137	26.9	24.88		2.65		0.174	pCi/g	93	87 - 120
Cobalt-60	9.80	8.970		0.943		0.105	pCi/g	92	87 - 115

QC Association Summary

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

Job ID: 600-209490-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA

Prep Batch: 501105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-501105/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-501105/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 501404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-501105/1-A	Method Blank	Total/NA	Solid	8270D	501105
LCS 400-501105/2-A	Lab Control Sample	Total/NA	Solid	8270D	501105
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501105
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501105

Prep Batch: 501756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2 - RERA	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
MB 400-501756/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-501756/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 502373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2 - RERA	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756
MB 400-501756/1-A	Method Blank	Total/NA	Solid	8270D	501756
LCS 400-501756/2-A	Lab Control Sample	Total/NA	Solid	8270D	501756
600-209490-2 MS	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756
600-209490-2 MSD	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8270D	501756

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	5030B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

QC Association Summary

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

Job ID: 600-209490-1

GC Semi VOA

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3546	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3546	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8082	300862
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8082	300862

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

QC Association Summary

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

Job ID: 600-209490-1

HPLC/IC

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	300.0	300916
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Soluble	Solid	DI Leach	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Soluble	Solid	DI Leach	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6860	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6860	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

QC Association Summary

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

Job ID: 600-209490-1

LCMS

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6860	505376
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6860	505376
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	7471B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 302874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302874/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302874/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	7471B	302874

QC Association Summary

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

Job ID: 600-209490-1

Metals (Continued)

Analysis Batch: 302917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-302874/7-A	Method Blank	Total/NA	Solid	7471B	302874
LCS 600-302874/8-A	Lab Control Sample	Total/NA	Solid	7471B	302874

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	3050B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	3050B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	6020	481632
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	6020	481632
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	2540B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	2540B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209490-2	CELL19-SQUARE27-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209490-3	CELL19-SQUARE43-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209490-3 MS	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	
600-209490-3 MSD	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	

QC Association Summary

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

Job ID: 600-209490-1

General Chemistry

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738
600-209490-3 MS	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209490-3 MSD	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9066	301825
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9066	301825
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	9045D	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	9045D	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209490-1	CELL19-SQUARE99-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209490-2	CELL19-SQUARE27-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209490-3	CELL19-SQUARE43-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479639/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1
Date Collected: 08/07/20 09:40
Matrix: Solid
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.14 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 00:44	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.02 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			289.4 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481712	09/08/20 17:34	SCB	TAL SL

Client Sample ID: CELL19-SQUARE99-S-2-3-200807

Lab Sample ID: 600-209490-1
Date Collected: 08/07/20 09:40
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.79 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:10	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:26	TTD	TAL HOU
Total/NA	Prep	3546			15.35 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 20:59	PP1	TAL PEN
Total/NA	Prep	5030B			9.91 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:32	WS1	TAL HOU
Total/NA	Prep	3546			10.09 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 19:12	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:33	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 18:12	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:14	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:14	W1N	TAL HOU
Total/NA	Prep	6860			10.32 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:30	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.4 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:50	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5740 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:58	DAS	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:16	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:52	AML	TAL HOU

Lab Chronicle

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

Job ID: 600-209490-1

Client Sample ID: CELL19-SQUARE99-S-2-3-200807 — Lab Sample ID: 600-209490-1

Date Collected: 08/07/20 09:40 — **Matrix: Solid**
Date Received: 08/08/20 10:05 — **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:52	AML	TAL HOU

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 — Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26 — **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.34 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:07	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.02 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			310.2 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481714	09/08/20 17:37	SCB	TAL SL

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 — Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26 — **Matrix: Solid**
Date Received: 08/08/20 10:05 — **Percent Solids: 88.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:34	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:50	TTD	TAL HOU
Total/NA	Prep	3546			15.37 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 21:24	PP1	TAL PEN
Total/NA	Prep	3546	RERA		15.25 g	1 mL	501756	08/28/20 07:50	SHB	TAL PEN
Total/NA	Analysis	8270D	RERA	1			502373	09/03/20 10:59	VC1	TAL PEN
Total/NA	Prep	5030B			9.95 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 14:57	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 19:45	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:58	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 11:39	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:35	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:35	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE27-S-2-3-200807 Lab Sample ID: 600-209490-2

Date Collected: 08/07/20 10:26 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.20 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:35	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.78 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:59	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5239 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:01	DAS	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:18	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:53	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:53	AML	TAL HOU

Client Sample ID: CELL19-SQUARE43-S-2-3-200807 Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58 **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.2 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:30	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			313.1 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481722	09/08/20 17:37	SCB	TAL SL

Client Sample ID: CELL19-SQUARE43-S-2-3-200807 Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.69 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 15:58	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 15:15	TTD	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 21:49	PP1	TAL PEN
Total/NA	Prep	5030B			9.64 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 15:46	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 20:18	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE43-S-2-3-200807
Lab Sample ID: 600-209490-3

Date Collected: 08/07/20 10:58
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 01:22	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:05	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 01:55	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 01:55	W1N	TAL HOU
Total/NA	Prep	6860			10.64 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:40	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.56 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:08	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5175 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:05	DAS	TAL SL
Total/NA	Prep	7471B			0.66 g	50 mL	302874	09/04/20 10:03	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302917	09/04/20 14:53	SOT	TAL HOU
Total/NA	Prep	9012B			0.507 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:54	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:54	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209490-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

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

Job ID: 600-209490-1

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

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

Job ID: 600-209490-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: (713) 690-4444 Fax: (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 619 851 8992	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:

Address: 630 Plaza Drive Suite 100	Due Date Requested: —	
City: Highlands Ranch	TAT Requested (days): Std	
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 #: 60012538	
Site: Landfarm	SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, 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 15 oz jar	8270D_AgChem -Pensacola - soil jar 4 oz	2540C_Calcd - Local Method/ Moisture/ pH 9045	8015B_GRO	8015_ DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell19-Square99-S-2-3-200807	8/07/20	0940	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell19-Square27-S-2-3-200807	8/07/20	1026	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell19-Square43-S-2-3-200807	8/07/20	1058	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/07/20

600-209490 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/07/20 1700	Arcadis		8/8/20 1005	ETA
2						
3						

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

Ver: 01/16/2019

Loc: 600
209490

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 AUG 6 10:05

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: YP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
2624	Y / N	Y / N	2.5	680	+0.1	2.6
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/8/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209490-1
Address: 13715 Rider Trail North,	Due Date Requested: 8/20/2020			
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 #: 60012538			
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=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL19-SQUARE99-S-2-3-200807 (600-209490-1)	8/7/20	09:40 Central		Solid			X	X	X	3	
CELL19-SQUARE27-S-2-3-200807 (600-209490-2)	8/7/20	10:26 Central		Solid			X	X	X	3	
CELL19-SQUARE43-S-2-3-200807 (600-209490-3)	8/7/20	10:58 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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: FE	Date/Time:	Company	Received by:	Date/Time: 8/11/20 09:18	Company ETASTL
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

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45917.1
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 #: 600-209490-1
Address: 4955 Yarrow Street, ,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL19-SQUARE99-S-2-3-200807 (600-209490-1)	8/7/20	09:40 Central		Solid			X	X	X	3	
CELL19-SQUARE27-S-2-3-200807 (600-209490-2)	8/7/20	10:26 Central		Solid			X	X	X	3	
CELL19-SQUARE43-S-2-3-200807 (600-209490-3)	8/7/20	10:58 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sarah Jones	8/10/20 13:00	ETA	D Ber	8-11-20 0915	ETADen

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.6, 1.9, IR16, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45918.1
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 #: 600-209490-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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-SQUARE99-S-2-3-200807 (600-209490-1)	8/7/20	09:40 Central		Solid			X	1	
CELL19-SQUARE27-S-2-3-200807 (600-209490-2)	8/7/20	10:26 Central		Solid			X	1	
CELL19-SQUARE43-S-2-3-200807 (600-209490-3)	8/7/20	10:58 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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 Jones	8/10/20 13:00	EDA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-12-20 0926	Company TA-HOU

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR-7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209490-1

Login Number: 209490 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	2.6
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209490-1

Login Number: 209490 **List Source: Eurofins TestAmerica, Denver**
List Number: 3 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209490-1

Login Number: 209490
List Number: 4
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209490-1

Login Number: 209490
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/11/20 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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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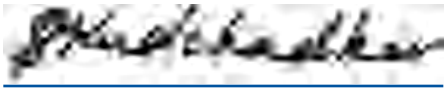
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209491-1
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:
9/21/2020 4:39:33 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209491-1

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Case Narrative

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

Job ID: 600-209491-1

Job ID: 600-209491-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209491-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA
Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

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
Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%),4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

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

RAD
Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639
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

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Case Narrative

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

Job ID: 600-209491-1

Job ID: 600-209491-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1), CELL21-SQUARE208-S-2-3-200807 (600-209491-2), (600-209486-E-1-B) and (600-209486-E-1-C DU)

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

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The following samples were diluted due to the abundance of non-target analytes: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-481844
The internal standard Li-6 was outside QC limits in the CCV. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCV 160-481844/40)

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

LCMS

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

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Case Narrative

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

Job ID: 600-209491-1

Job ID: 600-209491-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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

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

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL21-SQUARE155-S-2-3-200807 (600-209491-1) and CELL21-SQUARE208-S-2-3-200807 (600-209491-2). The reporting limits (RLs) have been adjusted proportionately.

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

Released to Imaging: 5/25/2022 8:55:33 AM

Method Summary

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

Job ID: 600-209491-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209491-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Solid	08/07/20 15:20	08/08/20 10:05	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Solid	08/07/20 16:00	08/08/20 10:05	

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807
Date Collected: 08/07/20 15:20
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-1
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.00	U	12.0	2.00	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Vinyl chloride	1.08	U	12.0	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Bromomethane	0.998	U	12.0	0.998	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Trichlorofluoromethane	0.793	U	12.0	0.793	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Acrolein	7.49	U	30.0	7.49	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloroethene	1.47	U	6.01	1.47	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
trans-1,2-Dichloroethene	1.37	U	6.01	1.37	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Methyl tert-butyl ether	2.20	U	6.01	2.20	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Methylene Chloride	**3.96**	**J**	12.0	2.63	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Acrylonitrile	7.00	U	60.1	7.00	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
cis-1,2-Dichloroethene	0.998	U	6.01	0.998	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Carbon tetrachloride	1.36	U	6.01	1.36	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Benzene	**3.53**	**J**	6.01	0.757	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichloroethane	1.08	U	6.01	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Trichloroethene	1.68	U	6.01	1.68	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1,1-Trichloroethane	0.889	U	6.01	0.889	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloroethane	1.05	U	6.01	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichloropropane	0.853	U	6.01	0.853	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,4-Dioxane	74.6	U	601	74.6	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Chloroform	**2.45**	**J b**	12.0	0.793	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Bromodichloromethane	0.793	U	6.01	0.793	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1-Dichloropropene	0.781	U	6.01	0.781	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
cis-1,3-Dichloropropene	0.649	U	6.01	0.649	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Toluene	1.66	U	6.01	1.66	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
trans-1,3-Dichloropropene	0.697	U	6.01	0.697	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1,2-Trichloroethane	0.877	U	6.01	0.877	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Tetrachloroethene	0.853	U	6.01	0.853	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,3-Dichloropropene, Total	0.697	U	6.01	0.697	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,2-Dibromoethane	1.23	U	6.01	1.23	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Monochlorobenzene	1.15	U	6.01	1.15	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Ethylbenzene	1.23	U	6.01	1.23	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Xylenes, Total	1.36	U	6.01	1.36	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Styrene	0.853	U	6.01	0.853	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Tribromomethane	1.65	U	6.01	1.65	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,1,2,2-Tetrachloroethane	1.05	U	6.01	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,4-Dichlorobenzene	0.793	U	6.01	0.793	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,2-Dichlorobenzene	0.962	U	6.01	0.962	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
1,2,4-Trichlorobenzene	2.37	U	6.01	2.37	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1
Dichlorodifluoromethane	1.85	U	6.01	1.85	ug/Kg	☼	08/12/20 11:03	08/13/20 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*61 - 130*	*08/12/20 11:03*	*08/13/20 16:22*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*08/12/20 11:03*	*08/13/20 16:22*	*1*
Toluene-d8 (Surr)	*87*		*50 - 130*	*08/12/20 11:03*	*08/13/20 16:22*	*1*
4-Bromofluorobenzene	*103*		*57 - 140*	*08/12/20 11:03*	*08/13/20 16:22*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.82	U	38.3	4.82	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodiethylamine	8.25	U	38.3	8.25	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807
Date Collected: 08/07/20 15:20
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-1
Matrix: Solid
Percent Solids: 86.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.90	U	38.3	1.90	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Hexachloroethane	2.65	U	38.3	2.65	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosopyrrolidine	5.37	U	38.3	5.37	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Nitrobenzene	3.40	U	38.3	3.40	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Isophorone	1.15	U	38.3	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2,4-Dichlorophenol	4.45	U	38.3	4.45	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Naphthalene	1.55	U	38.3	1.55	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Hexachlorobutadiene	2.21	U	38.3	2.21	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodi-n-butylamine	19.2	U	38.3	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2-Methylnaphthalene	3.15	U	38.3	3.15	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
1-Methylnaphthalene	1.80	U	38.3	1.80	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
1,2,4,5-Tetrachlorobenzene	7.76	U	38.3	7.76	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Hexachlorocyclopentadiene	5.30	U	38.3	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2,4,6-Trichlorophenol	3.08	U	38.3	3.08	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2,4,5-Trichlorophenol	11.5	U	38.3	11.5	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dimethyl phthalate	5.62	U	76.7	5.62	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Acenaphthylene	1.15	U	38.3	1.15	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2,6-Dinitrotoluene	3.39	U	38.3	3.39	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Acenaphthene	1.65	U	38.3	1.65	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dinitrophenols	5.42	U	115	5.42	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Pentachlorobenzene	4.61	U	38.3	4.61	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
2,4-Dinitrotoluene	4.15	U	38.3	4.15	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Diethyl phthalate	9.69	U	76.7	9.69	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Fluorene	2.71	U	38.3	2.71	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dinitro-o-cresol	5.72	U	195	5.72	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
N-Nitrosodiphenylamine	2.17	U	38.3	2.17	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Diphenylhydrazine, 1,2-	1.86	U	38.3	1.86	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Hexachlorobenzene	1.75	U	38.3	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Atrazine	5.77	U	38.3	5.77	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Pentachlorophenol	4.60	U	192	4.60	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Phenanthrene	5.69	U	38.3	5.69	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Anthracene	1.47	U	38.3	1.47	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dibutylphthalate	**18.7**	**J**	76.7	2.98	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Fluoranthene	3.57	U	38.3	3.57	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzidine	10.4	U	379	10.4	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Pyrene	2.10	U	38.3	2.10	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dichlorobenzidine, 3,3'-	11.7	U	38.3	11.7	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzo[a]anthracene	1.59	U	38.3	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Di (2-ethylhexyl)phthalate	**44.2**		38.3	6.17	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Chrysene	1.17	U	38.3	1.17	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzo[b]fluoranthene	1.98	U	38.3	1.98	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzo[k]fluoranthene	1.71	U	38.3	1.71	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzo[a]pyrene	1.85	U	38.3	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Indeno[1,2,3-cd]pyrene	4.02	U	38.3	4.02	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Dibenz(a,h)anthracene	4.17	U	38.3	4.17	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Benzo[g,h,i]perylene	5.83	U	38.3	5.83	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
bis (2-chloroisopropyl) ether	10.2	U	38.3	10.2	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1
Thiophene, tetrahydro-, 1,1-dioxide	19.2	U	38.3	19.2	ug/Kg	☼	08/12/20 11:16	08/17/20 18:25	1

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807
Date Collected: 08/07/20 15:20
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-1
Matrix: Solid
Percent Solids: 86.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*10 - 148*	*08/12/20 11:16*	*08/17/20 18:25*	*1*
2-Fluorobiphenyl	*84*		*38 - 130*	*08/12/20 11:16*	*08/17/20 18:25*	*1*
2-Fluorophenol	*80*		*25 - 132*	*08/12/20 11:16*	*08/17/20 18:25*	*1*
Nitrobenzene-d5	*81*		*10 - 155*	*08/12/20 11:16*	*08/17/20 18:25*	*1*
Terphenyl-d14	*102*		*53 - 134*	*08/12/20 11:16*	*08/17/20 18:25*	*1*
Phenol-d5 (Surr)	*78*		*27 - 130*	*08/12/20 11:16*	*08/17/20 18:25*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.6	U	74.9	13.6	ug/Kg	☼	08/18/20 13:26	08/20/20 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*73*		*30 - 164*	*08/18/20 13:26*	*08/20/20 18:04*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.713	U	1.22	0.713	mg/Kg	☼	08/13/20 07:54	08/14/20 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/13/20 07:54*	*08/14/20 11:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11.6**		8.65	2.96	mg/Kg	☼	08/10/20 15:56	08/13/20 22:32	1
C28-C36	8.65	U	8.65	8.65	mg/Kg	☼	08/10/20 15:56	08/13/20 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*126*		*60 - 140*	*08/10/20 15:56*	*08/13/20 22:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.95	1.50	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, beta-	1.17	U	1.95	1.17	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, delta-	0.976	U	1.95	0.976	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, alpha-	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Hexachlorocyclohexane, gamma-	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Chlordane (technical)	26.9	U	86.1	26.9	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
DDT	2.12	U	3.79	2.12	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Dieldrin	1.60	U	3.79	1.60	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan I	1.15	U	1.95	1.15	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan II	1.73	U	3.79	1.73	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endosulfan sulfate	1.93	U	3.79	1.93	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endrin	1.76	U	3.79	1.76	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Endrin aldehyde	1.79	U	3.79	1.79	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Heptachlor	1.07	U	1.95	1.07	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Heptachlor epoxide	1.34	U	1.95	1.34	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1
Toxaphene	84.0	U	195	84.0	ug/Kg	☼	08/11/20 08:51	08/12/20 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*47 - 150*	*08/11/20 08:51*	*08/12/20 01:47*	*1*
Tetrachloro-m-xylene	*84*		*50 - 143*	*08/11/20 08:51*	*08/12/20 01:47*	*1*

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807

Lab Sample ID: 600-209491-1
Date Collected: 08/07/20 15:20
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00184	U	0.0192	0.00184	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1221	0.00991	U	0.0192	0.00991	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1232	0.00769	U	0.0192	0.00769	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1242	0.00142	U	0.0192	0.00142	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1248	0.00286	U	0.0192	0.00286	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1254	0.00254	U	0.0192	0.00254	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1
PCB-1260	0.0155	U	0.0192	0.0155	mg/Kg	☼	08/11/20 08:51	08/13/20 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*10 - 150*	*08/11/20 08:51*	*08/13/20 12:30*	*1*
DCB Decachlorobiphenyl	*112*		*10 - 150*	*08/11/20 08:51*	*08/13/20 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.42**	**J**	4.62	0.616	mg/Kg	☼		08/12/20 02:16	1
Nitrate as N	**8.78**		2.31	0.290	mg/Kg	☼		08/12/20 02:16	1
Fluoride	**7.04**		2.31	0.694	mg/Kg	☼		08/12/20 02:16	1
Nitrite as N	0.343	U	2.31	0.343	mg/Kg	☼		08/12/20 02:16	1
Sulfate	**81.3**		5.77	1.10	mg/Kg	☼		08/12/20 02:16	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	0.0213	U	0.0937	0.0213	mg/Kg		08/12/20 15:04	08/14/20 01:53	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0403	U	0.187	0.0403	mg/Kg		08/12/20 15:04	08/14/20 01:53	1
2,4,6-Trinitrotoluene	0.0288	U	0.0937	0.0288	mg/Kg		08/12/20 15:04	08/14/20 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*08/12/20 15:04*	*08/14/20 01:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0927	U	0.562	0.0927	ug/Kg	☼	08/12/20 11:00	08/20/20 16:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.249	U	0.867	0.249	ug/Kg	☼	08/17/20 14:49	08/24/20 15:17	1
Perfluorohexanesulfonic acid (PFHxS)	0.303	U	0.867	0.303	ug/Kg	☼	08/17/20 14:49	08/24/20 15:17	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.867	0.152	ug/Kg	☼	08/17/20 14:49	08/24/20 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*103*		*57 - 153*	*08/17/20 14:49*	*08/24/20 15:17*	*1*
13C8 PFOS	*97*		*70 - 130*	*08/17/20 14:49*	*08/24/20 15:17*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.754	U	2.01	0.754	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Arsenic	**4.76**	**J**	10.1	4.02	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Barium	**288**		20.1	5.03	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Beryllium	0.402	U	1.01	0.402	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Cadmium	0.241	U	0.503	0.241	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Chromium	4.52	U	10.1	4.52	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE155-S-2-3-200807 Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1630**		121	60.3	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Copper	4.02	U	10.1	4.02	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Manganese	**10.0**		5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Lead	1.26	U	3.02	1.26	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Antimony	2.01	U	5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Selenium	3.22	U	5.03	3.22	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Thallium	2.01	U	5.03	2.01	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Zinc	20.1	U	50.3	20.1	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20
Uranium	0.402	U	1.01	0.402	mg/Kg	☼	09/04/20 10:33	09/09/20 20:08	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00381	U	0.0181	0.00381	mg/Kg	☼	09/02/20 13:16	09/03/20 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**86.7**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0205	U	0.136	0.0205	mg/Kg	☼	08/20/20 13:55	08/20/20 17:50	1
pH	**8.8**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.483	U	0.576	0.483	mg/Kg	☼	08/21/20 12:16	08/21/20 13:57	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			08/17/20 11:57	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	**1.71**		0.232	0.292	1.00	0.110	pCi/g	08/17/20 17:22	09/08/20 17:29	1
Radium-228	0.133	U	0.211	0.212		0.350	pCi/g	08/17/20 17:22	09/08/20 17:29	1
Combined Radium 226 + 228	**1.85**		0.314	0.361		0.350	pCi/g	08/17/20 17:22	09/08/20 17:29	1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807 Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.05	U	12.3	2.05	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Vinyl chloride	1.11	U	12.3	1.11	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Trichlorofluoromethane	0.814	U	12.3	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Acrolein	7.68	U	30.8	7.68	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloroethene	1.50	U	6.17	1.50	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
trans-1,2-Dichloroethene	1.41	U	6.17	1.41	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Methyl tert-butyl ether	2.26	U	6.17	2.26	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Methylene Chloride	**2.93**	**J**	12.3	2.70	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Acrylonitrile	7.18	U	61.7	7.18	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807
Date Collected: 08/07/20 16:00
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-2
Matrix: Solid
Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.02	U	6.17	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Carbon tetrachloride	1.39	U	6.17	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Benzene	0.777	U	6.17	0.777	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichloroethane	1.11	U	6.17	1.11	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Trichloroethene	1.73	U	6.17	1.73	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1,1-Trichloroethane	0.913	U	6.17	0.913	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloroethane	1.07	U	6.17	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichloropropane	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,4-Dioxane	76.6	U	617	76.6	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Chloroform	**2.38**	**J b**	12.3	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Bromodichloromethane	0.814	U	6.17	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1-Dichloropropene	0.802	U	6.17	0.802	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
cis-1,3-Dichloropropene	0.666	U	6.17	0.666	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Toluene	1.70	U	6.17	1.70	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
trans-1,3-Dichloropropene	0.715	U	6.17	0.715	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1,2-Trichloroethane	0.900	U	6.17	0.900	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Tetrachloroethene	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,3-Dichloropropene, Total	0.715	U	6.17	0.715	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,2-Dibromoethane	1.26	U	6.17	1.26	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Monochlorobenzene	1.18	U	6.17	1.18	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Ethylbenzene	1.26	U	6.17	1.26	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Xylenes, Total	1.39	U	6.17	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Styrene	0.876	U	6.17	0.876	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Tribromomethane	1.69	U	6.17	1.69	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,1,2,2-Tetrachloroethane	1.07	U	6.17	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,4-Dichlorobenzene	0.814	U	6.17	0.814	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,2-Dichlorobenzene	0.987	U	6.17	0.987	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
1,2,4-Trichlorobenzene	2.43	U	6.17	2.43	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1
Dichlorodifluoromethane	1.90	U	6.17	1.90	ug/Kg	☼	08/12/20 11:03	08/13/20 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*	*08/12/20 11:03*	*08/13/20 16:46*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*08/12/20 11:03*	*08/13/20 16:46*	*1*
Toluene-d8 (Surr)	*91*		*50 - 130*	*08/12/20 11:03*	*08/13/20 16:46*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*08/12/20 11:03*	*08/13/20 16:46*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.78	U	38.0	4.78	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodiethylamine	8.20	U	38.0	8.20	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Bis(2-chloroethyl)ether	1.88	U	38.0	1.88	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Hexachloroethane	2.64	U	38.0	2.64	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosopyrrolidine	5.33	U	38.0	5.33	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Nitrobenzene	3.38	U	38.0	3.38	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Isophorone	1.14	U	38.0	1.14	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2,4-Dichlorophenol	4.42	U	38.0	4.42	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Naphthalene	1.54	U	38.0	1.54	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Hexachlorobutadiene	2.19	U	38.0	2.19	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodi-n-butylamine	19.0	U	38.0	19.0	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2-Methylnaphthalene	3.13	U	38.0	3.13	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807
Date Collected: 08/07/20 16:00
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-2
Matrix: Solid
Percent Solids: 87.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.79	U	38.0	1.79	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
1,2,4,5-Tetrachlorobenzene	7.71	U	38.0	7.71	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Hexachlorocyclopentadiene	5.26	U	38.0	5.26	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2,4,6-Trichlorophenol	3.06	U	38.0	3.06	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2,4,5-Trichlorophenol	11.4	U	38.0	11.4	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dimethyl phthalate	5.58	U	76.1	5.58	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Acenaphthylene	1.14	U	38.0	1.14	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2,6-Dinitrotoluene	3.37	U	38.0	3.37	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Acenaphthene	1.64	U	38.0	1.64	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dinitrophenols	5.39	U	114	5.39	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Pentachlorobenzene	4.58	U	38.0	4.58	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
2,4-Dinitrotoluene	4.12	U	38.0	4.12	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Diethyl phthalate	9.62	U	76.1	9.62	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Fluorene	2.69	U	38.0	2.69	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dinitro-o-cresol	5.68	U	194	5.68	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
N-Nitrosodiphenylamine	2.16	U	38.0	2.16	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Diphenylhydrazine, 1,2-	1.85	U	38.0	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Hexachlorobenzene	1.74	U	38.0	1.74	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Atrazine	5.73	U	38.0	5.73	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Pentachlorophenol	4.57	U	191	4.57	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Phenanthrene	5.65	U	38.0	5.65	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Anthracene	1.46	U	38.0	1.46	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dibutylphthalate	**14.8**	**J**	76.1	2.96	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Fluoranthene	3.55	U	38.0	3.55	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzidine	10.3	U	377	10.3	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Pyrene	2.09	U	38.0	2.09	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dichlorobenzidine, 3,3'-	11.6	U	38.0	11.6	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzo[a]anthracene	1.58	U	38.0	1.58	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Di (2-ethylhexyl)phthalate	**29.5**	**J**	38.0	6.13	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Chrysene	1.16	U	38.0	1.16	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzo[b]fluoranthene	1.96	U	38.0	1.96	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzo[k]fluoranthene	1.70	U	38.0	1.70	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzo[a]pyrene	1.84	U	38.0	1.84	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Indeno[1,2,3-cd]pyrene	4.00	U	38.0	4.00	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Dibenz(a,h)anthracene	4.14	U	38.0	4.14	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Benzo[g,h,i]perylene	5.79	U	38.0	5.79	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
bis (2-chloroisopropyl) ether	10.1	U	38.0	10.1	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1
Thiophene, tetrahydro-, 1,1-dioxide	19.0	U	38.0	19.0	ug/Kg	☼	08/12/20 11:16	08/17/20 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*10 - 148*	*08/12/20 11:16*	*08/17/20 18:49*	*1*
2-Fluorobiphenyl	*87*		*38 - 130*	*08/12/20 11:16*	*08/17/20 18:49*	*1*
2-Fluorophenol	*75*		*25 - 132*	*08/12/20 11:16*	*08/17/20 18:49*	*1*
Nitrobenzene-d5	*78*		*10 - 155*	*08/12/20 11:16*	*08/17/20 18:49*	*1*
Terphenyl-d14	*106*		*53 - 134*	*08/12/20 11:16*	*08/17/20 18:49*	*1*
Phenol-d5 (Surr)	*78*		*27 - 130*	*08/12/20 11:16*	*08/17/20 18:49*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.2	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 17:39	1

Eurofins TestAmerica, Houston

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807
Date Collected: 08/07/20 16:00
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209491-2
Matrix: Solid
Percent Solids: 87.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*67*		*30 - 164*	*08/18/20 13:26*	*08/20/20 17:39*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.656	U	1.12	0.656	mg/Kg	☼	08/13/20 07:54	08/13/20 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*70 - 130*	*08/13/20 07:54*	*08/13/20 16:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.93	U	8.57	2.93	mg/Kg	☼	08/10/20 15:56	08/13/20 23:05	1
C28-C36	8.57	U	8.57	8.57	mg/Kg	☼	08/10/20 15:56	08/13/20 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*60 - 140*	*08/10/20 15:56*	*08/13/20 23:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.49	U	1.94	1.49	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, beta-	1.16	U	1.94	1.16	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, delta-	0.970	U	1.94	0.970	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, alpha-	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Hexachlorocyclohexane, gamma-	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Chlordane (technical)	26.7	U	85.6	26.7	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
DDT	2.11	U	3.76	2.11	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Dieldrin	1.59	U	3.76	1.59	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan I	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan II	1.72	U	3.76	1.72	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endosulfan sulfate	1.92	U	3.76	1.92	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endrin	1.75	U	3.76	1.75	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Endrin aldehyde	1.78	U	3.76	1.78	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Heptachlor	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Heptachlor epoxide	1.33	U	1.94	1.33	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1
Toxaphene	83.4	U	194	83.4	ug/Kg	☼	08/11/20 08:51	08/12/20 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*47 - 150*	*08/11/20 08:51*	*08/12/20 02:12*	*1*
Tetrachloro-m-xylene	*94*		*50 - 143*	*08/11/20 08:51*	*08/12/20 02:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1221	0.00984	U	0.0191	0.00984	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1232	0.00764	U	0.0191	0.00764	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1242	0.00141	U	0.0191	0.00141	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1248	0.00284	U	0.0191	0.00284	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1254	0.00252	U	0.0191	0.00252	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	☼	08/11/20 08:51	08/13/20 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*10 - 150*	*08/11/20 08:51*	*08/13/20 12:56*	*1*

Client Sample Results

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE208-S-2-3-200807

Lab Sample ID: 600-209491-2
Date Collected: 08/07/20 16:00
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 87.4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*10 - 150*	*08/11/20 08:51*	*08/13/20 12:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.25**	**J**	4.58	0.611	mg/Kg	☼		08/12/20 02:36	1
Nitrate as N	**4.68**		2.29	0.287	mg/Kg	☼		08/12/20 02:36	1
Fluoride	**9.38**		2.29	0.688	mg/Kg	☼		08/12/20 02:36	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	☼		08/12/20 02:36	1
Sulfate	**48.2**		5.72	1.10	mg/Kg	☼		08/12/20 02:36	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	0.0934	0.0212	mg/Kg		08/12/20 15:04	08/14/20 02:16	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.187	0.0401	mg/Kg		08/12/20 15:04	08/14/20 02:16	1
2,4,6-Trinitrotoluene	0.0287	U	0.0934	0.0287	mg/Kg		08/12/20 15:04	08/14/20 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/14/20 02:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0930	U	0.564	0.0930	ug/Kg	☼	08/12/20 11:00	08/20/20 16:50	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.248	U	0.863	0.248	ug/Kg	☼	08/17/20 14:49	08/24/20 15:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.302	U	0.863	0.302	ug/Kg	☼	08/17/20 14:49	08/24/20 15:26	1
Perfluorooctanesulfonic acid (PFOS)	0.151	U	0.863	0.151	ug/Kg	☼	08/17/20 14:49	08/24/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 15:26*	*1*
13C8 PFOS	*98*		*70 - 130*	*08/17/20 14:49*	*08/24/20 15:26*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.761	U	2.03	0.761	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Arsenic	4.06	U	10.2	4.06	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Barium	**297**		20.3	5.08	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Beryllium	0.406	U	1.02	0.406	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Cadmium	0.244	U	0.508	0.244	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Chromium	4.57	U	10.2	4.57	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Iron	**3670**		122	60.9	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Copper	4.06	U	10.2	4.06	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Manganese	**43.2**		5.08	2.03	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Lead	1.27	U	3.05	1.27	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Antimony	2.03	U	5.08	2.03	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Selenium	3.25	U	5.08	3.25	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Thallium	2.03	U	5.08	2.03	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Zinc	20.3	U	50.8	20.3	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20
Uranium	0.406	U	1.02	0.406	mg/Kg	☼	09/04/20 10:33	09/09/20 20:12	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE208-S-2-3-200807 **Lab Sample ID: 600-209491-2**
Date Collected: 08/07/20 16:00 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 87.4**

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00403	U	0.0191	0.00403	mg/Kg	☼	09/02/20 13:16	09/03/20 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**87.4**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0185	U	0.123	0.0185	mg/Kg	☼	08/20/20 13:55	08/20/20 17:51	1
pH	**9.0**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.477	U	0.569	0.477	mg/Kg	☼	08/21/20 12:16	08/21/20 13:59	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**127**		10.0	10.0	mg/L			08/17/20 11:57	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**		0.197	0.224	1.00	0.120	pCi/g	08/17/20 17:22	09/08/20 17:31	1
Radium-228	-0.133	U	0.272	0.273		0.508	pCi/g	08/17/20 17:22	09/08/20 17:31	1
Combined Radium 226 + 228	**0.899**		0.336	0.353		0.508	pCi/g	08/17/20 17:22	09/08/20 17:31	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
H	Sample was prepped or analyzed beyond the specified holding time
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: 600-209491-1
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

Surrogate Summary

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

Job ID: 600-209491-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	104	87	87	103
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	99	89	91	107
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111

Surrogate Legend

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

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	59	84	80	81	102	78
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	47	87	75	78	106	78
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	73
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	67
600-209491-2 MS	CELL21-SQUARE208-S-2-3-20 0807	87
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-20 0807	72
LCS 400-500724/2-A	Lab Control Sample	87
MB 400-500724/1-A	Method Blank	75

Surrogate Legend

TPP = Triphenylphosphate

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8015B - Gasoline Range Organics - (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	95
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	126
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	93
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	79	84
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	77	94
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	85	112
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	98	119

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
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)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	103
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	102
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209491-1	CELL21-SQUARE155-S-2-3-20(	103	97
600-209491-2	CELL21-SQUARE208-S-2-3-20 0807	102	98
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

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: 600-209491-1

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

Lab Sample ID: MB 600-301050/6
Matrix: Solid
Analysis Batch: 301050

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*		*08/13/20 09:16*	*1*
Dibromofluoromethane	*90*		*68 - 140*		*08/13/20 09:16*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*		*08/13/20 09:16*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*		*08/13/20 09:16*	*1*

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCS 600-301050/3
Matrix: Solid
Analysis Batch: 301050

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*
Dibromofluoromethane	*87*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*112*		*57 - 140*

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCSD 600-301050/4
Matrix: Solid
Analysis Batch: 301050

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
Chloromethane			50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride			50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane			50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane			50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein			250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene			50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether			50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride			50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile			500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene			50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride			50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene			50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane			50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene			50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane			50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane			50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane			50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane			1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform			50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane			50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene			50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene			50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene			50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane			50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene			50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total			100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane			50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene			50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene			50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total			100	98.14		ug/Kg		98	63 - 130	5	30
Styrene			50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane			50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane			50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene			50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene			50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane			50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
Dibromofluoromethane	*82*		*68 - 140*
Toluene-d8 (Surr)	*92*		*50 - 130*
4-Bromofluorobenzene	*103*		*57 - 140*

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

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

Job ID: 600-209491-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*38 - 130*
2-Fluorophenol	*91*		*25 - 132*
Nitrobenzene-d5	*95*		*10 - 155*
Terphenyl-d14	*112*		*53 - 134*
Phenol-d5 (Surr)	*93*		*27 - 130*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/18/20 13:25	08/20/20 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*75*		*30 - 164*	*08/18/20 13:25*	*08/20/20 15:59*	*1*

Lab Sample ID: LCS 400-500724/2-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	252.5		ug/Kg		76	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*87*		*30 - 164*

Lab Sample ID: 600-209491-2 MS
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: CELL21-SQUARE208-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 500724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	13.5	U	373	337.7		ug/Kg	☼	91	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*87*		*30 - 164*

Lab Sample ID: 600-209491-2 MSD
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: CELL21-SQUARE208-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 500724

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	13.5	U	380	297.4		ug/Kg	☼	78	40 - 140	13	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*72*		*30 - 164*

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*47 - 150*	*08/11/20 08:51*	*08/11/20 19:37*	*1*
Tetrachloro-m-xylene	*116*		*50 - 143*	*08/11/20 08:51*	*08/11/20 19:37*	*1*

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-	16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-	16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-	16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-	16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT	16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin	16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I	16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II	16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate	16.6	20.67		ug/Kg		124	32 - 150	3	20

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCSD 600-300862/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 300913 — **Prep Batch: 300862**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N			100	98.87		mg/Kg		99	90 - 110
Nitrite as N			100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N			100	91.93		mg/Kg		92	90 - 110
Nitrite as N			100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1

QC Sample Results

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

Job ID: 600-209491-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 16:41*	*1*

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*106*		*83 - 122*

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

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

QC Sample Results

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

Job ID: 600-209491-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS (Continued)

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

QC Sample Results

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

Job ID: 600-209491-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0

QC Sample Results

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

Job ID: 600-209491-1

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

Lab Sample ID: LCSSRM 160-481632/3-A ^10
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301738/1-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

QC Sample Results

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

Job ID: 600-209491-1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301825/1-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/21/20 12:16	08/21/20 13:43	1

Lab Sample ID: LCS 600-301825/2-A
Matrix: Solid
Analysis Batch: 301847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09383		mg/Kg		94	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A
Matrix: Solid
Analysis Batch: 481714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

QC Association Summary

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

Job ID: 600-209491-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	5030B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270C LL	300979

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209491-2 MS	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724
600-209491-2 MS	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209491-2 MSD	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8270D	500724

QC Association Summary

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

Job ID: 600-209491-1

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	5030B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8015B	300717

Analysis Batch: 301188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3546	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8082	300862
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8082	300862

QC Association Summary

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

Job ID: 600-209491-1

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	300.0	300916
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	300.0	300916
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Soluble	Solid	DI Leach	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6860	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	

QC Association Summary

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

Job ID: 600-209491-1

LCMS (Continued)

Prep Batch: 505376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6860	505376
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	7471B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	3050B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	

QC Association Summary

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

Job ID: 600-209491-1

Metals

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	6020	481632
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	2540B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209491-2	CELL21-SQUARE208-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9012B	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738

Prep Batch: 301825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301825/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9066	301825
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9066	301825
MB 600-301825/1-A	Method Blank	Total/NA	Solid	9066	301825
LCS 600-301825/2-A	Lab Control Sample	Total/NA	Solid	9066	301825

QC Association Summary

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

Job ID: 600-209491-1

General Chemistry

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	9045D	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209491-1	CELL21-SQUARE155-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
600-209491-2	CELL21-SQUARE208-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE155-S-2-3-200807
Lab Sample ID: 600-209491-1
Date Collected: 08/07/20 15:20
Matrix: Solid
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.67 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 01:53	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.05 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			294.6 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481708	09/08/20 17:29	SCB	TAL SL

Client Sample ID: CELL21-SQUARE155-S-2-3-200807
Lab Sample ID: 600-209491-1
Date Collected: 08/07/20 15:20
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.80 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 16:22	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 18:25	RP	TAL HOU
Total/NA	Prep	3546			15.26 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:04	PP1	TAL PEN
Total/NA	Prep	5030B			9.48 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301188	08/14/20 11:42	WS1	TAL HOU
Total/NA	Prep	3546			10.01 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 22:32	RJV	TAL HOU
Total/NA	Prep	3546			15.07 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 01:47	JAL	TAL HOU
Total/NA	Prep	3546			15.07 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:30	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 02:16	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 02:16	W1N	TAL HOU
Total/NA	Prep	6860			10.26 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:45	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.65 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:17	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5739 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:08	DAS	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:22	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:50	AML	TAL HOU

Lab Chronicle

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

Job ID: 600-209491-1

Client Sample ID: CELL21-SQUARE155-S-2-3-200807 — Lab Sample ID: 600-209491-1

Date Collected: 08/07/20 15:20 — **Matrix: Solid**
Date Received: 08/08/20 10:05 — **Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:57	AML	TAL HOU

Client Sample ID: CELL21-SQUARE208-S-2-3-200807 — Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00 — **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.71 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/14/20 02:16	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.18 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			340.7 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481711	09/08/20 17:31	SCB	TAL SL

Client Sample ID: CELL21-SQUARE208-S-2-3-200807 — Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00 — **Matrix: Solid**
Date Received: 08/08/20 10:05 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.64 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 16:46	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 18:49	RP	TAL HOU
Total/NA	Prep	3546			15.27 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 17:39	PP1	TAL PEN
Total/NA	Prep	5030B			10.23 g	10 mL	300717	08/13/20 07:54	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 16:35	WS1	TAL HOU
Total/NA	Prep	3546			10.02 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 23:05	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 02:12	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 12:56	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/12/20 02:36	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/12/20 02:36	W1N	TAL HOU
Total/NA	Prep	6860			10.14 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 16:50	TMC	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE208-S-2-3-200807 Lab Sample ID: 600-209491-2

Date Collected: 08/07/20 16:00 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.61 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 15:26	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5637 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 20:12	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:24	DCL	TAL HOU
Total/NA	Prep	9012B			0.558 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:51	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301825	08/21/20 12:16	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301847	08/21/20 13:59	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209491-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

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

Job ID: 600-209491-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-72940-20046.1
Client Contact: ~~Sarah Johnson~~ Alison Schaffer	Phone: 619 8518792	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.		Analysis Requested		Job #:
Address: ~~1004 North Big Spring Suite 121~~ 630 Plaza Drive Suite 100	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, Z - other (specify)
City: ~~Midland~~ Highlands Ranch	TAT Requested (days): Std			
State, Zip: ~~TX, 79701~~ CO, 80129-2377	PO #: Purchase Order Requested			
Phone: ~~432-237-0200(Tel)~~ 303 710 7537	WO #:			
Email: ~~sarah.johnson@arcadis.com~~ alison.schaffer@arcadis.com	Project #: ~~60014732~~ 60012538			Other:
Project Name: Chevron - Jal Land Farm Soils 2020	SSOW#:			
Site: Landfarm				

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)	~~Perform PH~~ 8260B	8270C	6860	8330B	PFC	8270D	2540C	8015B_GRO	8015_DRO/ORO	GA-01	9066	300	6020/7471	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell21-Square155-S-2-3-200807	8/07/20	1520	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	Should be same analyses as other codes/COC with the same project.
Cell21-Square208-S-2-3-200807	8/07/20	1600	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp blank				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

9/s 8/07/20

600-209491 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/07/20 1700	Arcadis	[signature]	8/8/20 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:

Ver: 01/16/2019

Eurofins TestAmerica Houston

Loc: 600
209491

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

'20 AUG 6 10:05

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: JP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3075	Y / N	Y / N	1.9	680	+0.1	2.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/8/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209491-1
Address: 13715 Rider Trail North,	Due Date Requested: 8/20/2020			
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 #: 60012538			
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=wastecil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL21-SQUARE155-S-2-3-200807 (600-209491-1)	8/7/20	15:20 Central		Solid			X	X	X	3	
CELL21-SQUARE208-S-2-3-200807 (600-209491-2)	8/7/20	16:00 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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:
Sarah Jones	8/10/20 13:00	ETA	FE		
FE				8/11/20 09:18	ETA STL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45917.1
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 #: 600-209491-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL21-SQUARE155-S-2-3-200807 (600-209491-1)	8/7/20	15:20 Central		Solid			X	X	X	3	
CELL21-SQUARE208-S-2-3-200807 (600-209491-2)	8/7/20	16:00 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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:
Sandra Jones	8/10/20 13:00	ETA	D Ac	8-11-20 0915	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:
		5.6, 1.9, IR16, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45918.1
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 #: 600-209491-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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:						
CELL21-SQUARE155-S-2-3-200807 (600-209491-1)	8/7/20	15:20 Central		Solid			X	1	
CELL21-SQUARE208-S-2-3-200807 (600-209491-2)	8/7/20	16:00 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/10/20 13:00	ETA			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			[signature]	8/12/2020 0826	ETA-

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209491-1

Login Number: 209491 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	2.0
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209491-1

Login Number: 209491 **List Source: Eurofins TestAmerica, Denver**
List Number: 3 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209491-1

Login Number: 209491
List Number: 4
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209491-1

Login Number: 209491
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/11/20 01:13 PM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209483-1
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:
9/23/2020 10:07:16 AM

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

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209483-1

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Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209483-1

Comments
The report was revised on 09/23/20 to correct the sample ID for samples 600-209483-1; -2; -3 per the COC.

Receipt
The samples were received on 8/7/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 600-300707 recovered outside control limits for the following analytes: Bromomethane.

Method 8260B: The method blank for analytical batch 600-300707 contained Chloroform 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.

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-500496 and analytical batch 400-500677 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 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

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

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

GC Semi VOA
Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%),4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 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.

RAD
Method GA-01-R: Gamma Prep Batch 160-479981
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

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3) and (600-209483-G-1-C DU)

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

Metals

Method 6020: analytical batch 160-479582
The internal standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCB 160-479582/125) and (CCV 160-479582/124)

Method 6020: preparation batch 160-479336 and analytical batch 160-479582
The following samples were diluted due to the abundance of non-target analytes: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-C-1-B MS ^20), (600-209483-C-1-C MSD ^20), (600-209483-C-1-A PDS ^20) and (600-209483-C-1-A SD ^100). Elevated reporting limits (RLs) are provided.

Method 6020: preparation batch 160-479336 and analytical batch 160-479582
The following sample(s) was diluted due to the nature of the sample matrix. Samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE118-5-2-3-200806 (600-209483-2). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-479336 and analytical batch 160-479582 were outside control limits for Barium and Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209483-C-1-B MS ^20) and (600-209483-C-1-C MSD ^20)

Methods 6020, 6020B: preparation batch 160-479336 and analytical batch 160-480286
The following sample(s) was diluted due to the nature of the sample matrix. The samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE118-5-2-3-200806 (600-209483-2). Elevated reporting limits (RLs) are provided.

Method 6020: The low level continuing calibration verification (CCVL) associated with batch 160-480286 recovered above the upper control

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

limit for Uranium. The samples associated with this CCVL were below the reporting limit for the affected analytes; therefore, the data have been reported. (CCVL 160-480286/83)

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

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

General Chemistry
Method 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 600-300916 and analytical batch 600-300880 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 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: CELL17-SQUARE86-5-2-3-200806 (600-209483-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 600-300916 and analytical batch 600-300881 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 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: CELL17-SQUARE86-5-2-3-200806 (600-209483-1). Elevated reporting limits (RLs) are provided.

Methods 420.4, 9066: The method blank for preparation batch 600-301626 and analytical batch 600-301633 contained Phenols, Total 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.

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

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. As per client and PM instructions, ISM subsampling was not performed.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-I-2 DU), (600-209483-I-2 MS), (600-209483-I-2 MSD) and (600-209483-I-2 TRL)

In preparation batch 280-505447 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-I-2 DU), (600-209483-I-2 MS), (600-209483-I-2 MSD) and (600-209483-I-2 TRL). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505447 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2), CELL18-SQUARE157-5-2-3-200806 (600-209483-3), (600-209483-F-1 MS) and (600-209483-F-1 MSD)

preparation batch 280-505864

Case Narrative

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

Job ID: 600-209483-1

Job ID: 600-209483-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL18-SQUARE118-5-2-3-200806 (600-209483-2) and CELL18-SQUARE157-5-2-3-200806 (600-209483-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL17-SQUARE86-5-2-3-200806 (600-209483-1), CELL18-SQUARE118-5-2-3-200806 (600-209483-2) and CELL18-SQUARE157-5-2-3-200806 (600-209483-3). The reporting limits (RLs) have been adjusted proportionately.

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

Method Summary

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

Job ID: 600-209483-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209483-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Solid	08/06/20 13:05	08/07/20 09:20	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Solid	08/06/20 13:36	08/07/20 09:20	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Solid	08/06/20 14:10	08/07/20 09:20	

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Date Collected: 08/06/20 13:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-1
Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.09	U	7.33	1.09	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,1,2,2-Tetrachloroethane	1.28	U	7.33	1.28	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,1,2-Trichloroethane	1.07	U	7.33	1.07	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloroethane	1.28	U	7.33	1.28	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloroethene	1.79	U	7.33	1.79	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,1-Dichloropropene	0.953	U	7.33	0.953	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,2,4-Trichlorobenzene	2.89	U	7.33	2.89	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,2-Dibromoethane	1.50	U	7.33	1.50	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichlorobenzene	1.17	U	7.33	1.17	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichloroethane	1.32	U	7.33	1.32	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,2-Dichloropropane	1.04	U	7.33	1.04	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,3-Dichloropropene, Total	0.850	U	7.33	0.850	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,4-Dichlorobenzene	0.968	U	7.33	0.968	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
1,4-Dioxane	91.0	U	733	91.0	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Acrolein	9.14	U	36.7	9.14	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Acrylonitrile	8.53	U	73.3	8.53	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Benzene	0.924	U	7.33	0.924	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Bromodichloromethane	0.968	U	7.33	0.968	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Bromomethane	1.22	U *	14.7	1.22	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Carbon tetrachloride	1.66	U	7.33	1.66	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Chloroform	**1.47**	**J b**	14.7	0.968	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Chloromethane	2.43	U	14.7	2.43	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
cis-1,2-Dichloroethene	1.22	U	7.33	1.22	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
cis-1,3-Dichloropropene	0.792	U	7.33	0.792	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Ethylbenzene	1.50	U	7.33	1.50	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Methyl tert-butyl ether	2.68	U	7.33	2.68	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Methylene Chloride	3.21	U	14.7	3.21	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Monochlorobenzene	1.41	U	7.33	1.41	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Styrene	1.04	U	7.33	1.04	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Tetrachloroethene	1.04	U	7.33	1.04	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Toluene	2.02	U	7.33	2.02	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
trans-1,2-Dichloroethene	1.67	U	7.33	1.67	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
trans-1,3-Dichloropropene	0.850	U	7.33	0.850	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Tribromomethane	2.01	U	7.33	2.01	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Trichloroethene	2.05	U	7.33	2.05	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Trichlorofluoromethane	0.968	U	14.7	0.968	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Vinyl chloride	1.32	U	14.7	1.32	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Xylenes, Total	1.66	U	7.33	1.66	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1
Dichlorodifluoromethane	2.26	U	7.33	2.26	ug/Kg	☼	08/08/20 08:54	08/08/20 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*61 - 130*	*08/08/20 08:54*	*08/08/20 09:26*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/08/20 08:54*	*08/08/20 09:26*	*1*
Toluene-d8 (Surr)	*89*		*50 - 130*	*08/08/20 08:54*	*08/08/20 09:26*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*08/08/20 08:54*	*08/08/20 09:26*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	5.66	U	45.0	5.66	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodiethylamine	9.70	U *	45.0	9.70	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Date Collected: 08/06/20 13:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-1
Matrix: Solid
Percent Solids: 73.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	2.23	U	45.0	2.23	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Hexachloroethane	3.12	U	45.0	3.12	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosopyrrolidine	6.31	U *	45.0	6.31	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Nitrobenzene	4.00	U	45.0	4.00	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Isophorone	1.35	U	45.0	1.35	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2,4-Dichlorophenol	5.23	U	45.0	5.23	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Naphthalene	1.82	U	45.0	1.82	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Hexachlorobutadiene	2.59	U	45.0	2.59	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodi-n-butylamine	22.5	U *	45.0	22.5	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2-Methylnaphthalene	3.70	U	45.0	3.70	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
1-Methylnaphthalene	2.12	U	45.0	2.12	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
1,2,4,5-Tetrachlorobenzene	9.12	U	45.0	9.12	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Hexachlorocyclopentadiene	6.23	U	45.0	6.23	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2,4,6-Trichlorophenol	3.62	U	45.0	3.62	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2,4,5-Trichlorophenol	13.5	U	45.0	13.5	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dimethyl phthalate	6.61	U	90.1	6.61	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Acenaphthylene	1.35	U	45.0	1.35	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2,6-Dinitrotoluene	3.99	U	45.0	3.99	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Acenaphthene	1.95	U	45.0	1.95	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dinitrophenols	6.38	U	135	6.38	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Pentachlorobenzene	5.42	U *	45.0	5.42	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
2,4-Dinitrotoluene	4.88	U	45.0	4.88	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Diethyl phthalate	11.4	U	90.1	11.4	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Fluorene	3.19	U	45.0	3.19	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dinitro-o-cresol	6.73	U	230	6.73	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
N-Nitrosodiphenylamine	2.55	U	45.0	2.55	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Diphenylhydrazine, 1,2-	2.19	U	45.0	2.19	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Hexachlorobenzene	2.05	U	45.0	2.05	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Atrazine	6.78	U	45.0	6.78	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Pentachlorophenol	5.41	U	226	5.41	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Phenanthrene	6.69	U	45.0	6.69	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Anthracene	1.73	U	45.0	1.73	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dibutylphthalate	**9.74**	**J**	90.1	3.50	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Fluoranthene	4.20	U	45.0	4.20	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzidine	12.2	U	446	12.2	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Pyrene	2.47	U	45.0	2.47	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dichlorobenzidine, 3,3'-	13.7	U	45.0	13.7	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzo[a]anthracene	1.87	U	45.0	1.87	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Di (2-ethylhexyl)phthalate	**21.4**	**J**	45.0	7.26	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Chrysene	1.38	U	45.0	1.38	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzo[b]fluoranthene	2.32	U	45.0	2.32	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzo[k]fluoranthene	2.01	U	45.0	2.01	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzo[a]pyrene	2.18	U	45.0	2.18	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Indeno[1,2,3-cd]pyrene	4.73	U	45.0	4.73	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Dibenz(a,h)anthracene	4.91	U	45.0	4.91	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Benzo[g,h,i]perylene	6.85	U	45.0	6.85	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
bis (2-chloroisopropyl) ether	11.9	U	45.0	11.9	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1
Thiophene, tetrahydro-, 1,1-dioxide	22.5	U	45.0	22.5	ug/Kg	☼	08/12/20 09:49	08/17/20 10:01	1

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Date Collected: 08/06/20 13:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-1

Matrix: Solid
Percent Solids: 73.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		10 - 148	08/12/20 09:49	08/17/20 10:01	1
2-Fluorobiphenyl	52		38 - 130	08/12/20 09:49	08/17/20 10:01	1
2-Fluorophenol	44		25 - 132	08/12/20 09:49	08/17/20 10:01	1
Nitrobenzene-d5	46		10 - 155	08/12/20 09:49	08/17/20 10:01	1
Terphenyl-d14	111		53 - 134	08/12/20 09:49	08/17/20 10:01	1
Phenol-d5 (Surr)	48		27 - 130	08/12/20 09:49	08/17/20 10:01	1

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	15.7	U	86.6	15.7	ug/Kg	☼	08/17/20 09:48	08/18/20 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	60		30 - 164	08/17/20 09:48	08/18/20 18:35	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.804	U	1.37	0.804	mg/Kg	☼	08/08/20 07:14	08/08/20 10:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		70 - 130	08/08/20 07:14	08/08/20 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.51	J	6.76	2.31	mg/Kg	☼	08/10/20 15:56	08/13/20 13:34	1
C28-C36	30.6		6.76	6.76	mg/Kg	☼	08/10/20 15:56	08/13/20 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		60 - 140	08/10/20 15:56	08/13/20 13:34	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.77	U	2.30	1.77	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, beta-	1.38	U	2.30	1.38	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, delta-	1.15	U	2.30	1.15	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, alpha-	1.35	U	2.30	1.35	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Hexachlorocyclohexane, gamma-	1.26	U	2.30	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Chlordane (technical)	31.7	U	101	31.7	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
DDT	2.50	U	4.47	2.50	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Dieldrin	1.88	U	4.47	1.88	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan I	1.35	U	2.30	1.35	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan II	2.04	U	4.47	2.04	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endosulfan sulfate	2.27	U	4.47	2.27	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endrin	2.07	U	4.47	2.07	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Endrin aldehyde	2.11	U	4.47	2.11	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Heptachlor	1.26	U	2.30	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Heptachlor epoxide	1.58	U	2.30	1.58	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1
Toxaphene	98.9	U	230	98.9	ug/Kg	☼	08/11/20 08:51	08/11/20 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		47 - 150	08/11/20 08:51	08/11/20 20:51	1
Tetrachloro-m-xylene	82		50 - 143	08/11/20 08:51	08/11/20 20:51	1

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Date Collected: 08/06/20 13:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-1

Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00217	U	0.0226	0.00217	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1221	0.0117	U	0.0226	0.0117	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1232	0.00907	U	0.0226	0.00907	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1242	0.00168	U	0.0226	0.00168	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1248	0.00337	U	0.0226	0.00337	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1254	0.00299	U	0.0226	0.00299	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1
PCB-1260	0.0183	U	0.0226	0.0183	mg/Kg	☼	08/11/20 08:51	08/12/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*10 - 150*	*08/11/20 08:51*	*08/12/20 14:26*	*1*
DCB Decachlorobiphenyl	*110*		*10 - 150*	*08/11/20 08:51*	*08/12/20 14:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**157**		27.2	3.63	mg/Kg	☼		08/11/20 17:25	5
Nitrate as N	**21.2**		13.6	1.70	mg/Kg	☼		08/11/20 17:25	5
Fluoride	**9.60**	**J**	13.6	4.08	mg/Kg	☼		08/11/20 17:25	5
Nitrite as N	2.02	U	13.6	2.02	mg/Kg	☼		08/11/20 17:25	5
Sulfate	**4630**		339	65.0	mg/Kg	☼		08/20/20 20:32	50

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		08/14/20 16:49	08/19/20 23:08	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/14/20 16:49	08/19/20 23:08	1
2,4,6-Trinitrotoluene	0.0303	U	0.0987	0.0303	mg/Kg		08/14/20 16:49	08/19/20 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*08/14/20 16:49*	*08/19/20 23:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1.08**		0.632	0.104	ug/Kg	☼	08/13/20 12:00	08/20/20 13:45	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.308	U	1.07	0.308	ug/Kg	☼	08/17/20 14:49	08/24/20 12:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	1.07	0.375	ug/Kg	☼	08/17/20 14:49	08/24/20 12:04	1
Perfluorooctanesulfonic acid (PFOS)	0.187	U	1.07	0.187	ug/Kg	☼	08/17/20 14:49	08/24/20 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 12:04*	*1*
13C8 PFOS	*99*		*70 - 130*	*08/17/20 14:49*	*08/24/20 12:04*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.934	U	2.49	0.934	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Arsenic	4.98	U	12.5	4.98	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Barium	**341**		24.9	6.23	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Beryllium	0.498	U	1.25	0.498	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Cadmium	**1.05**		0.623	0.299	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Chromium	5.60	U	12.5	5.60	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1
Date Collected: 08/06/20 13:05
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3690**		149	74.7	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Copper	4.98	U	12.5	4.98	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Manganese	**37.6**		6.23	2.49	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Lead	**3.40**	**J**	3.74	1.56	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Antimony	2.49	U	6.23	2.49	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Selenium	3.99	U	6.23	3.99	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Thallium	2.49	U	6.23	2.49	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Zinc	24.9	U	62.3	24.9	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20
Uranium	**1.59**		1.25	0.498	mg/Kg	☼	08/13/20 11:03	08/14/20 19:28	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00486	U	0.0231	0.00486	mg/Kg	☼	09/02/20 13:16	09/03/20 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.4**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**73.6**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0231	U	0.154	0.0231	mg/Kg	☼	08/14/20 14:14	08/14/20 17:13	1
pH	**8.0**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.566	U	0.675	0.566	mg/Kg	☼	08/19/20 16:29	08/19/20 20:34	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**1030**		20.0	20.0	mg/L			08/19/20 12:28	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	**0.846**		0.174	0.194	1.00	0.0981	pCi/g	08/20/20 11:43	09/12/20 09:55	1
Radium-228	-0.0113	U	0.0464	0.0464		0.423	pCi/g	08/20/20 11:43	09/12/20 09:55	1
Combined Radium 226 + 228	**0.835**		0.180	0.199		0.423	pCi/g	08/20/20 11:43	09/12/20 09:55	1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2
Date Collected: 08/06/20 13:36
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.831	U	5.62	0.831	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,1,2,2-Tetrachloroethane	0.977	U	5.62	0.977	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,1,2-Trichloroethane	0.820	U	5.62	0.820	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloroethane	0.977	U	5.62	0.977	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloroethene	1.37	U	5.62	1.37	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,1-Dichloropropene	0.730	U	5.62	0.730	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,2,4-Trichlorobenzene	2.21	U	5.62	2.21	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,2-Dibromoethane	1.15	U	5.62	1.15	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,2-Dichlorobenzene	0.899	U	5.62	0.899	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,2-Dichloroethane	1.01	U	5.62	1.01	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806
Date Collected: 08/06/20 13:36
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-2
Matrix: Solid
Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.797	U	5.62	0.797	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,3-Dichloropropene, Total	0.651	U	5.62	0.651	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,4-Dichlorobenzene	0.741	U	5.62	0.741	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
1,4-Dioxane	69.7	U	562	69.7	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Acrolein	7.00	U	28.1	7.00	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Acrylonitrile	6.54	U	56.2	6.54	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Benzene	0.708	U	5.62	0.708	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Bromodichloromethane	0.741	U	5.62	0.741	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Bromomethane	0.932	U *	11.2	0.932	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Carbon tetrachloride	1.27	U	5.62	1.27	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Chloroform	**1.07**	**J b**	11.2	0.741	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Chloromethane	1.86	U	11.2	1.86	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
cis-1,2-Dichloroethene	0.932	U	5.62	0.932	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
cis-1,3-Dichloropropene	0.607	U	5.62	0.607	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Ethylbenzene	1.15	U	5.62	1.15	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Methyl tert-butyl ether	2.06	U	5.62	2.06	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Methylene Chloride	2.46	U	11.2	2.46	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Monochlorobenzene	1.08	U	5.62	1.08	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Styrene	0.797	U	5.62	0.797	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Tetrachloroethene	0.797	U	5.62	0.797	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Toluene	1.55	U	5.62	1.55	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
trans-1,2-Dichloroethene	1.28	U	5.62	1.28	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
trans-1,3-Dichloropropene	0.651	U	5.62	0.651	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Tribromomethane	1.54	U	5.62	1.54	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Trichloroethene	1.57	U	5.62	1.57	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Trichlorofluoromethane	0.741	U	11.2	0.741	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Vinyl chloride	1.01	U	11.2	1.01	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Xylenes, Total	1.27	U	5.62	1.27	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1
Dichlorodifluoromethane	1.73	U	5.62	1.73	ug/Kg	☼	08/08/20 08:54	08/08/20 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*	*08/08/20 08:54*	*08/08/20 09:49*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*08/08/20 08:54*	*08/08/20 09:49*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*08/08/20 08:54*	*08/08/20 09:49*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*08/08/20 08:54*	*08/08/20 09:49*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.54	U	36.1	4.54	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodiethylamine	7.79	U	36.1	7.79	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Bis(2-chloroethyl)ether	1.79	U	36.1	1.79	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Hexachloroethane	2.50	U	36.1	2.50	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosopyrrolidine	5.06	U	36.1	5.06	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Nitrobenzene	3.21	U	36.1	3.21	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Isophorone	1.08	U	36.1	1.08	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2,4-Dichlorophenol	4.20	U	36.1	4.20	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Naphthalene	1.46	U	36.1	1.46	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Hexachlorobutadiene	2.08	U	36.1	2.08	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodi-n-butylamine	18.1	U	36.1	18.1	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2-Methylnaphthalene	2.97	U	36.1	2.97	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1

Client Sample Results

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

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806
Date Collected: 08/06/20 13:36
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-2
Matrix: Solid
Percent Solids: 91.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.70	U	36.1	1.70	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
1,2,4,5-Tetrachlorobenzene	7.32	U	36.1	7.32	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Hexachlorocyclopentadiene	5.00	U	36.1	5.00	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2,4,6-Trichlorophenol	2.91	U	36.1	2.91	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2,4,5-Trichlorophenol	10.9	U	36.1	10.9	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dimethyl phthalate	5.30	U	72.3	5.30	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Acenaphthylene	1.08	U	36.1	1.08	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2,6-Dinitrotoluene	3.20	U	36.1	3.20	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Acenaphthene	1.56	U	36.1	1.56	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dinitrophenols	5.12	U	108	5.12	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Pentachlorobenzene	4.35	U	36.1	4.35	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
2,4-Dinitrotoluene	3.91	U	36.1	3.91	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Diethyl phthalate	9.14	U	72.3	9.14	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Fluorene	2.56	U	36.1	2.56	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dinitro-o-cresol	5.40	U	184	5.40	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
N-Nitrosodiphenylamine	2.05	U	36.1	2.05	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Diphenylhydrazine, 1,2-	1.76	U	36.1	1.76	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Hexachlorobenzene	1.65	U	36.1	1.65	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Atrazine	5.44	U	36.1	5.44	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Pentachlorophenol	4.34	U	181	4.34	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Phenanthrene	5.37	U	36.1	5.37	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Anthracene	1.39	U	36.1	1.39	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dibutylphthalate	2.81	U	72.3	2.81	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Fluoranthene	3.37	U	36.1	3.37	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzidine	9.78	U	358	9.78	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Pyrene	1.98	U	36.1	1.98	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dichlorobenzidine, 3,3'-	11.0	U	36.1	11.0	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzo[a]anthracene	1.50	U	36.1	1.50	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Di (2-ethylhexyl)phthalate	5.82	U	36.1	5.82	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Chrysene	1.11	U	36.1	1.11	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzo[b]fluoranthene	1.87	U	36.1	1.87	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzo[k]fluoranthene	1.62	U	36.1	1.62	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzo[a]pyrene	1.75	U	36.1	1.75	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Indeno[1,2,3-cd]pyrene	3.80	U	36.1	3.80	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Dibenz(a,h)anthracene	3.94	U	36.1	3.94	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Benzo[g,h,i]perylene	5.50	U	36.1	5.50	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
bis (2-chloroisopropyl) ether	9.59	U	36.1	9.59	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1
Thiophene, tetrahydro-, 1,1-dioxide	18.1	U	36.1	18.1	ug/Kg	☼	08/12/20 09:49	08/17/20 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*10 - 148*	*08/12/20 09:49*	*08/17/20 10:24*	*1*
2-Fluorobiphenyl	*82*		*38 - 130*	*08/12/20 09:49*	*08/17/20 10:24*	*1*
2-Fluorophenol	*76*		*25 - 132*	*08/12/20 09:49*	*08/17/20 10:24*	*1*
Nitrobenzene-d5	*77*		*10 - 155*	*08/12/20 09:49*	*08/17/20 10:24*	*1*
Terphenyl-d14	*108*		*53 - 134*	*08/12/20 09:49*	*08/17/20 10:24*	*1*
Phenol-d5 (Surr)	*74*		*27 - 130*	*08/12/20 09:49*	*08/17/20 10:24*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.8	U	70.1	12.8	ug/Kg	☼	08/17/20 09:48	08/18/20 19:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806
Date Collected: 08/06/20 13:36
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-2
Matrix: Solid
Percent Solids: 91.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*43*		*30 - 164*	*08/17/20 09:48*	*08/18/20 19:00*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.626	U	1.07	0.626	mg/Kg	☼	08/08/20 07:14	08/08/20 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*08/08/20 07:14*	*08/08/20 10:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.78	U	8.14	2.78	mg/Kg	☼	08/10/20 15:56	08/13/20 14:08	1
C28-C36	8.14	U	8.14	8.14	mg/Kg	☼	08/10/20 15:56	08/13/20 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*135*		*60 - 140*	*08/10/20 15:56*	*08/13/20 14:08*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.42	U	1.85	1.42	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, beta-	1.11	U	1.85	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, delta-	0.923	U	1.85	0.923	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, alpha-	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Hexachlorocyclohexane, gamma-	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Chlordane (technical)	25.4	U	81.4	25.4	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
DDT	2.01	U	3.58	2.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Dieldrin	1.51	U	3.58	1.51	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan I	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan II	1.64	U	3.58	1.64	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endosulfan sulfate	1.82	U	3.58	1.82	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endrin	1.66	U	3.58	1.66	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Endrin aldehyde	1.69	U	3.58	1.69	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Heptachlor	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Heptachlor epoxide	1.27	U	1.85	1.27	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1
Toxaphene	79.4	U	185	79.4	ug/Kg	☼	08/11/20 08:51	08/11/20 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*47 - 150*	*08/11/20 08:51*	*08/11/20 21:16*	*1*
Tetrachloro-m-xylene	*79*		*50 - 143*	*08/11/20 08:51*	*08/11/20 21:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00174	U	0.0181	0.00174	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1221	0.00937	U	0.0181	0.00937	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1232	0.00728	U	0.0181	0.00728	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1242	0.00135	U	0.0181	0.00135	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1248	0.00270	U	0.0181	0.00270	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1254	0.00240	U	0.0181	0.00240	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1
PCB-1260	0.0147	U	0.0181	0.0147	mg/Kg	☼	08/11/20 08:51	08/12/20 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*10 - 150*	*08/11/20 08:51*	*08/12/20 14:51*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806
Date Collected: 08/06/20 13:36
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-2
Matrix: Solid
Percent Solids: 91.8

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		10 - 150	08/11/20 08:51	08/12/20 14:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.3**		4.36	0.582	mg/Kg	☼		08/11/20 18:26	1
Nitrate as N	**11.1**		2.18	0.273	mg/Kg	☼		08/11/20 18:26	1
Fluoride	**3.90**		2.18	0.655	mg/Kg	☼		08/11/20 18:26	1
Nitrite as N	**0.469**	**J**	2.18	0.324	mg/Kg	☼		08/11/20 18:26	1
Sulfate	**150**		5.45	1.04	mg/Kg	☼		08/11/20 18:26	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		08/14/20 16:49	08/19/20 23:31	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.199	0.0427	mg/Kg		08/14/20 16:49	08/19/20 23:31	1
2,4,6-Trinitrotoluene	0.0305	U	0.0993	0.0305	mg/Kg		08/14/20 16:49	08/19/20 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	103		83 - 122	08/14/20 16:49	08/19/20 23:31	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0855	U	0.519	0.0855	ug/Kg	☼	08/13/20 12:00	08/20/20 14:00	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.248	U	0.863	0.248	ug/Kg	☼	08/17/20 14:49	08/24/20 12:30	1
Perfluorohexanesulfonic acid (PFHxS)	0.302	U	0.863	0.302	ug/Kg	☼	08/17/20 14:49	08/24/20 12:30	1
Perfluorooctanesulfonic acid (PFOS)	0.151	U	0.863	0.151	ug/Kg	☼	08/17/20 14:49	08/24/20 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 12:30	1
13C8 PFOS	97		70 - 130	08/17/20 14:49	08/24/20 12:30	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.784	U	2.09	0.784	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Arsenic	4.18	U	10.5	4.18	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Barium	**47.9**		20.9	5.23	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Beryllium	0.418	U	1.05	0.418	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Cadmium	0.251	U	0.523	0.251	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Chromium	**6.62**	**J**	10.5	4.71	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Iron	**5950**		126	62.8	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Copper	**5.37**	**J**	10.5	4.18	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Manganese	**88.4**		5.23	2.09	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Lead	6.54	U	15.7	6.54	mg/Kg	☼	08/13/20 11:03	08/21/20 17:55	100
Antimony	2.09	U	5.23	2.09	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Selenium	3.35	U	5.23	3.35	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Thallium	10.5	U	26.1	10.5	mg/Kg	☼	08/13/20 11:03	08/21/20 17:55	100
Zinc	20.9	U	52.3	20.9	mg/Kg	☼	08/13/20 11:03	08/14/20 19:39	20
Uranium	2.09	U	5.23	2.09	mg/Kg	☼	08/13/20 11:03	08/21/20 17:55	100

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2
Date Collected: 08/06/20 13:36
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 91.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00384	U	0.0182	0.00384	mg/Kg	☼	09/02/20 13:16	09/03/20 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	91.8		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0405	J	0.127	0.0190	mg/Kg	☼	08/14/20 14:14	08/14/20 17:13	1
pH	9.3	H	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.554	b	0.538	0.452	mg/Kg	☼	08/19/20 16:29	08/19/20 20:35	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10.0	10.0	mg/L			08/19/20 12:28	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	0.670		0.155	0.170	1.00	0.105	pCi/g	08/20/20 11:43	09/12/20 09:54	1
Radium-228	0.472		0.189	0.195		0.358	pCi/g	08/20/20 11:43	09/12/20 09:54	1
Combined Radium 226 + 228	1.14		0.244	0.259		0.358	pCi/g	08/20/20 11:43	09/12/20 09:54	1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3
Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.938	U	6.34	0.938	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,1,2,2-Tetrachloroethane	1.10	U	6.34	1.10	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,1,2-Trichloroethane	0.925	U	6.34	0.925	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloroethane	1.10	U	6.34	1.10	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloroethene	1.55	U	6.34	1.55	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,1-Dichloropropene	0.824	U	6.34	0.824	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,2,4-Trichlorobenzene	2.50	U	6.34	2.50	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,2-Dibromoethane	1.29	U	6.34	1.29	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichlorobenzene	1.01	U	6.34	1.01	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichloroethane	1.14	U	6.34	1.14	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,2-Dichloropropane	0.900	U	6.34	0.900	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,3-Dichloropropene, Total	0.735	U	6.34	0.735	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,4-Dichlorobenzene	0.837	U	6.34	0.837	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
1,4-Dioxane	78.7	U	634	78.7	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Acrolein	7.90	U	31.7	7.90	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Acrylonitrile	7.38	U	63.4	7.38	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Benzene	0.798	U	6.34	0.798	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Bromodichloromethane	0.837	U	6.34	0.837	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Bromomethane	1.05	U *	12.7	1.05	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Carbon tetrachloride	1.43	U	6.34	1.43	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Chloroform	1.27	J b	12.7	0.837	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Chloromethane	2.10	U	12.7	2.10	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Date Collected: 08/06/20 14:10
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-3

Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.05	U	6.34	1.05	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
cis-1,3-Dichloropropene	0.684	U	6.34	0.684	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Ethylbenzene	1.29	U	6.34	1.29	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Methyl tert-butyl ether	2.32	U	6.34	2.32	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Methylene Chloride	2.78	U	12.7	2.78	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Monochlorobenzene	1.22	U	6.34	1.22	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Styrene	0.900	U	6.34	0.900	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Tetrachloroethene	0.900	U	6.34	0.900	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Toluene	1.75	U	6.34	1.75	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
trans-1,2-Dichloroethene	1.44	U	6.34	1.44	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
trans-1,3-Dichloropropene	0.735	U	6.34	0.735	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Tribromomethane	1.74	U	6.34	1.74	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Trichloroethene	1.77	U	6.34	1.77	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Trichlorofluoromethane	0.837	U	12.7	0.837	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Vinyl chloride	1.14	U	12.7	1.14	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Xylenes, Total	1.43	U	6.34	1.43	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1
Dichlorodifluoromethane	1.95	U	6.34	1.95	ug/Kg	☼	08/08/20 08:54	08/08/20 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 130*	*08/08/20 08:54*	*08/08/20 10:12*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/08/20 08:54*	*08/08/20 10:12*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*08/08/20 08:54*	*08/08/20 10:12*	*1*
4-Bromofluorobenzene	*108*		*57 - 140*	*08/08/20 08:54*	*08/08/20 10:12*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.79	U	38.1	4.79	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodiethylamine	8.21	U *	38.1	8.21	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Bis(2-chloroethyl)ether	1.89	U	38.1	1.89	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Hexachloroethane	2.64	U	38.1	2.64	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosopyrrolidine	5.34	U *	38.1	5.34	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Nitrobenzene	3.38	U	38.1	3.38	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Isophorone	1.14	U	38.1	1.14	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2,4-Dichlorophenol	4.43	U	38.1	4.43	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Naphthalene	1.54	U	38.1	1.54	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Hexachlorobutadiene	2.20	U	38.1	2.20	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodi-n-butylamine	**22.9**	**J ***	38.1	19.1	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2-Methylnaphthalene	3.13	U	38.1	3.13	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
1-Methylnaphthalene	1.80	U	38.1	1.80	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
1,2,4,5-Tetrachlorobenzene	7.72	U	38.1	7.72	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Hexachlorocyclopentadiene	5.27	U	38.1	5.27	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2,4,6-Trichlorophenol	3.06	U	38.1	3.06	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2,4,5-Trichlorophenol	11.4	U	38.1	11.4	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dimethyl phthalate	5.59	U	76.3	5.59	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Acenaphthylene	1.14	U	38.1	1.14	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2,6-Dinitrotoluene	3.37	U	38.1	3.37	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Acenaphthene	1.65	U	38.1	1.65	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dinitrophenols	5.40	U	114	5.40	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Pentachlorobenzene	4.59	U *	38.1	4.59	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
2,4-Dinitrotoluene	4.13	U	38.1	4.13	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806
Date Collected: 08/06/20 14:10
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209483-3
Matrix: Solid
Percent Solids: 87.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.64	U	76.3	9.64	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Fluorene	2.70	U	38.1	2.70	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dinitro-o-cresol	5.69	U	194	5.69	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
N-Nitrosodiphenylamine	2.16	U	38.1	2.16	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Diphenylhydrazine, 1,2-	1.85	U	38.1	1.85	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Hexachlorobenzene	1.74	U	38.1	1.74	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Atrazine	5.74	U	38.1	5.74	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Pentachlorophenol	4.57	U	191	4.57	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Phenanthrene	5.66	U	38.1	5.66	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Anthracene	1.46	U	38.1	1.46	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dibutylphthalate	**13.1**	**J**	76.3	2.96	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Fluoranthene	3.56	U	38.1	3.56	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzidine	10.3	U	377	10.3	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Pyrene	2.09	U	38.1	2.09	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dichlorobenzidine, 3,3'-	11.6	U	38.1	11.6	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzo[a]anthracene	1.58	U	38.1	1.58	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Di (2-ethylhexyl)phthalate	**23.3**	**J**	38.1	6.14	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Chrysene	1.17	U	38.1	1.17	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzo[b]fluoranthene	1.97	U	38.1	1.97	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzo[k]fluoranthene	1.70	U	38.1	1.70	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzo[a]pyrene	1.84	U	38.1	1.84	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Indeno[1,2,3-cd]pyrene	4.00	U	38.1	4.00	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Dibenz(a,h)anthracene	4.15	U	38.1	4.15	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Benzo[g,h,i]perylene	5.80	U	38.1	5.80	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
bis (2-chloroisopropyl) ether	10.1	U	38.1	10.1	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1
Thiophene, tetrahydro-, 1,1-dioxide	19.1	U	38.1	19.1	ug/Kg	☼	08/12/20 09:52	08/17/20 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*10 - 148*	*08/12/20 09:52*	*08/17/20 11:36*	*1*
2-Fluorobiphenyl	*84*		*38 - 130*	*08/12/20 09:52*	*08/17/20 11:36*	*1*
2-Fluorophenol	*74*		*25 - 132*	*08/12/20 09:52*	*08/17/20 11:36*	*1*
Nitrobenzene-d5	*80*		*10 - 155*	*08/12/20 09:52*	*08/17/20 11:36*	*1*
Terphenyl-d14	*114*		*53 - 134*	*08/12/20 09:52*	*08/17/20 11:36*	*1*
Phenol-d5 (Surr)	*74*		*27 - 130*	*08/12/20 09:52*	*08/17/20 11:36*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.7	U	75.6	13.7	ug/Kg	☼	08/17/20 09:48	08/18/20 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*48*		*30 - 164*	*08/17/20 09:48*	*08/18/20 19:25*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.714	U	1.22	0.714	mg/Kg	☼	08/08/20 07:14	08/08/20 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*08/08/20 07:14*	*08/08/20 11:02*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3
Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 87.3

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.93	U	8.56	2.93	mg/Kg	☼	08/10/20 15:56	08/13/20 14:42	1
C28-C36	8.56	U	8.56	8.56	mg/Kg	☼	08/10/20 15:56	08/13/20 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*60 - 140*	*08/10/20 15:56*	*08/13/20 14:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.50	U	1.94	1.50	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, beta-	1.17	U	1.94	1.17	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, delta-	0.972	U	1.94	0.972	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, alpha-	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Hexachlorocyclohexane, gamma-	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Chlordane (technical)	26.8	U	85.8	26.8	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
DDT	2.12	U	3.77	2.12	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Dieldrin	1.59	U	3.77	1.59	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Endosulfan I	1.14	U	1.94	1.14	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Endosulfan II	1.73	U	3.77	1.73	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Endosulfan sulfate	1.92	U	3.77	1.92	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Endrin	1.75	U	3.77	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Endrin aldehyde	1.78	U	3.77	1.78	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Heptachlor	1.06	U	1.94	1.06	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Heptachlor epoxide	1.34	U	1.94	1.34	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1
Toxaphene	83.6	U	194	83.6	ug/Kg	☼	08/11/20 08:51	08/11/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*47 - 150*	*08/11/20 08:51*	*08/11/20 21:40*	*1*
Tetrachloro-m-xylene	*78*		*50 - 143*	*08/11/20 08:51*	*08/11/20 21:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00183	U	0.0191	0.00183	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1221	0.00987	U	0.0191	0.00987	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1232	0.00766	U	0.0191	0.00766	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1242	0.00142	U	0.0191	0.00142	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1248	0.00285	U	0.0191	0.00285	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1254	0.00253	U	0.0191	0.00253	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1
PCB-1260	0.0154	U	0.0191	0.0154	mg/Kg	☼	08/11/20 08:51	08/12/20 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*10 - 150*	*08/11/20 08:51*	*08/12/20 15:16*	*1*
DCB Decachlorobiphenyl	*102*		*10 - 150*	*08/11/20 08:51*	*08/12/20 15:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.01**	**J**	4.58	0.612	mg/Kg	☼		08/11/20 18:47	1
Nitrate as N	**16.7**		2.29	0.288	mg/Kg	☼		08/11/20 18:47	1
Fluoride	**9.88**		2.29	0.689	mg/Kg	☼		08/11/20 18:47	1
Nitrite as N	0.340	U	2.29	0.340	mg/Kg	☼		08/11/20 18:47	1
Sulfate	**125**		5.73	1.10	mg/Kg	☼		08/11/20 18:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3
Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 87.3

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		08/14/20 16:49	08/20/20 01:27	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0415	U	0.193	0.0415	mg/Kg		08/14/20 16:49	08/20/20 01:27	1
2,4,6-Trinitrotoluene	0.0296	U	0.0965	0.0296	mg/Kg		08/14/20 16:49	08/20/20 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*101*		*83 - 122*	*08/14/20 16:49*	*08/20/20 01:27*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0900	U	0.546	0.0900	ug/Kg	☼	08/13/20 12:00	08/20/20 14:05	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.251	U	0.871	0.251	ug/Kg	☼	08/17/20 14:49	08/24/20 12:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.305	U	0.871	0.305	ug/Kg	☼	08/17/20 14:49	08/24/20 12:39	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.871	0.152	ug/Kg	☼	08/17/20 14:49	08/24/20 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 12:39*	*1*
13C8 PFOS	*97*		*70 - 130*	*08/17/20 14:49*	*08/24/20 12:39*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.765	U	2.04	0.765	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Arsenic	**4.34**	**J**	10.2	4.08	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Barium	**339**		20.4	5.10	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Beryllium	0.408	U	1.02	0.408	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Cadmium	0.245	U	0.510	0.245	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Chromium	4.59	U	10.2	4.59	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Iron	**2240**		122	61.2	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Copper	4.08	U	10.2	4.08	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Manganese	**24.9**		5.10	2.04	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Lead	**1.53**	**J**	3.06	1.27	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Antimony	2.04	U	5.10	2.04	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Selenium	3.26	U	5.10	3.26	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Thallium	2.04	U	5.10	2.04	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Zinc	20.4	U	51.0	20.4	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20
Uranium	**0.516**	**J**	1.02	0.408	mg/Kg	☼	08/13/20 11:03	08/14/20 19:42	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00526**	**J**	0.0183	0.00385	mg/Kg	☼	09/02/20 13:16	09/03/20 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**87.3**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0195	U	0.130	0.0195	mg/Kg	☼	08/14/20 14:14	08/14/20 17:14	1
pH	**8.1**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	**0.729**	**b**	0.563	0.472	mg/Kg	☼	08/19/20 16:29	08/19/20 20:36	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE157-S-2-3-200806 **Lab Sample ID: 600-209483-3**
Date Collected: 08/06/20 14:10 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 87.3**

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			08/19/20 12:28	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**		0.205	0.240	1.00	0.112	pCi/g	08/20/20 11:43	09/12/20 09:53	1
Radium-228	0.137	U	0.226	0.226		0.191	pCi/g	08/20/20 11:43	09/12/20 09:53	1
Combined Radium 226 + 228	**1.35**		0.305	0.330		0.191	pCi/g	08/20/20 11:43	09/12/20 09:53	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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.
N2	RPD of the MS and MSD exceeds the control limits
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
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.
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.

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.
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
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: 600-209483-1
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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	95	86	89	107
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	100	89	93	111
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	101	86	86	108
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	73	52	44	46	111	48
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	79	82	76	77	108	74
600-209483-2 MS	CELL18-SQUARE118-S-2-3-20 0806	88	80	75	79	106	60
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-20 0806	90	90	84	86	110	83
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	59	84	74	80	114	74
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	60
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	43

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
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)
600-209483-3	CELL18-SQUARE157-S-2-3-20(	48
LCS 400-500496/2-A	Lab Control Sample	94
MB 400-500496/1-A	Method Blank	86

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-209483-1	CELL17-SQUARE86-S-2-3-200(	82
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	98
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	91
LCS 600-300708/1-A	Lab Control Sample	96
LCSD 600-300708/2-A	Lab Control Sample Dup	96
MB 600-300708/3-A	Method Blank	95

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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	(60-140)
600-209483-1	CELL17-SQUARE86-S-2-3-200(	101
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	135
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	116
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(47-150)	(50-143)
600-209483-1	CELL17-SQUARE86-S-2-3-200(	87	82
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	82	79
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	80	78

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	86	110
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	75	105
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	83	102
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

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)
600-209483-1	CELL17-SQUARE86-S-2-3-2008	103
600-209483-2	CELL18-SQUARE118-S-2-3-20 0806	103
600-209483-2 DU	CELL18-SQUARE118-S-2-3-20 0806	101
600-209483-2 MS	CELL18-SQUARE118-S-2-3-20 0806	101
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-20 0806	103
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-20 0806	101
600-209483-3	CELL18-SQUARE157-S-2-3-20 0806	101
LCS 280-505741/2-A	Lab Control Sample	102
MB 280-505741/1-A	Method Blank	102

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

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)								
600-209483-1	CELL17-SQUARE86-S-2-3-200	104	99								
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	104	99								
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	101	97								
600-209483-2	CELL18-SQUARE118-S-2-3-200806	103	97								
600-209483-3	CELL18-SQUARE157-S-2-3-200806	104	97								
DLCK 280-500633/14	Lab Control Sample	108	91								
LCS 280-505864/2-A	Lab Control Sample	101	98								
MB 280-505864/1-A	Method Blank	104	94								

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: 600-209483-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*61 - 130*		*08/08/20 09:03*	*1*
Dibromofluoromethane	*87*		*68 - 140*		*08/08/20 09:03*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*		*08/08/20 09:03*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*		*08/08/20 09:03*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-300707/3
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,3-Dichloropropene, Total	100	97.99		ug/Kg		98	70 - 130
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Acrolein	250	213.3		ug/Kg		85	10 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
Benzene	50.0	45.50		ug/Kg		91	70 - 131
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*95*		*50 - 130*
4-Bromofluorobenzene	*110*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-300707/4
Matrix: Solid
Analysis Batch: 300707

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
1,1,1-Trichloroethane			50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	41.86		ug/Kg		84	61 - 138	13	30
1,1,2-Trichloroethane			50.0	41.82		ug/Kg		84	67 - 134	8	30
1,1-Dichloroethane			50.0	48.37		ug/Kg		97	63 - 140	6	30
1,1-Dichloroethene			50.0	39.90		ug/Kg		80	62 - 142	11	30
1,1-Dichloropropene			50.0	47.28		ug/Kg		95	67 - 130	0	30
1,2,4-Trichlorobenzene			50.0	45.58		ug/Kg		91	53 - 136	8	30
1,2-Dibromoethane			50.0	40.36		ug/Kg		81	65 - 136	7	30
1,2-Dichlorobenzene			50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2-Dichloroethane			50.0	51.06		ug/Kg		102	58 - 137	5	30
1,2-Dichloropropane			50.0	45.74		ug/Kg		91	70 - 130	3	30
1,3-Dichloropropene, Total			100	91.72		ug/Kg		92	70 - 130	7	30
1,4-Dichlorobenzene			50.0	46.96		ug/Kg		94	65 - 131	5	30
1,4-Dioxane			1000	744.2		ug/Kg		74	31 - 150	12	30
Acrolein			250	167.3		ug/Kg		67	10 - 150	24	30
Acrylonitrile			500	382.6		ug/Kg		77	43 - 150	22	30
Benzene			50.0	43.98		ug/Kg		88	70 - 131	3	30
Bromodichloromethane			50.0	47.68		ug/Kg		95	67 - 138	5	30
Bromomethane			50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Carbon tetrachloride			50.0	48.66		ug/Kg		97	58 - 130	4	30
Chloroform			50.0	47.93		ug/Kg		96	69 - 130	4	30
Chloromethane			50.0	57.80		ug/Kg		116	44 - 141	16	30
cis-1,2-Dichloroethene			50.0	43.72		ug/Kg		87	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	45.41		ug/Kg		91	65 - 130	7	30
Ethylbenzene			50.0	42.25		ug/Kg		85	66 - 130	5	30
Methyl tert-butyl ether			50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride			50.0	40.83		ug/Kg		82	61 - 150	13	30
Monochlorobenzene			50.0	43.22		ug/Kg		86	63 - 131	5	30
Styrene			50.0	42.79		ug/Kg		86	65 - 133	3	30
Tetrachloroethene			50.0	41.84		ug/Kg		84	43 - 143	3	30
Toluene			50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,2-Dichloroethene			50.0	43.12		ug/Kg		86	69 - 130	10	30
trans-1,3-Dichloropropene			50.0	46.31		ug/Kg		93	70 - 130	6	30
Tribromomethane			50.0	44.68		ug/Kg		89	43 - 150	8	30
Trichloroethene			50.0	40.15		ug/Kg		80	63 - 135	4	30
Trichlorofluoromethane			50.0	53.31		ug/Kg		107	53 - 134	8	30
Vinyl chloride			50.0	48.37		ug/Kg		97	40 - 148	16	30
Xylenes, Total			100	87.88		ug/Kg		88	63 - 130	4	30
Dichlorodifluoromethane			50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*91*		*50 - 130*
4-Bromofluorobenzene	*107*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839		ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Lab Sample ID: 600-209483-2 MS
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: CELL18-SQUARE118-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	4.54	U	725	551.6		ug/Kg	☼	76	29 - 130
Bis(2-chloroethyl)ether	1.79	U	725	603.3		ug/Kg	☼	83	40 - 130
Hexachloroethane	2.50	U	725	531.4		ug/Kg	☼	73	37 - 130
Nitrobenzene	3.21	U	725	601.0		ug/Kg	☼	83	42 - 130
Isophorone	1.08	U	725	601.6		ug/Kg	☼	83	39 - 130
2,4-Dichlorophenol	4.20	U	725	575.3		ug/Kg	☼	79	38 - 130
Naphthalene	1.46	U	725	579.5		ug/Kg	☼	80	40 - 130
Hexachlorobutadiene	2.08	U	725	578.9		ug/Kg	☼	80	36 - 130
2-Methylnaphthalene	2.97	U	725	622.3		ug/Kg	☼	86	43 - 130
1-Methylnaphthalene	1.70	U	725	599.6		ug/Kg	☼	83	43 - 130
1,2,4,5-Tetrachlorobenzene	7.32	U	725	595.5		ug/Kg	☼	82	37 - 130
Hexachlorocyclopentadiene	5.00	U	725	444.8		ug/Kg	☼	61	10 - 130
2,4,6-Trichlorophenol	2.91	U	725	601.8		ug/Kg	☼	83	39 - 130
2,4,5-Trichlorophenol	10.9	U	725	656.5		ug/Kg	☼	91	41 - 130
Dimethyl phthalate	5.30	U	725	679.4		ug/Kg	☼	94	40 - 130
Acenaphthylene	1.08	U	725	639.5		ug/Kg	☼	88	39 - 130
2,6-Dinitrotoluene	3.20	U	725	671.5		ug/Kg	☼	93	44 - 130
Acenaphthene	1.56	U	725	629.0		ug/Kg	☼	87	42 - 130
Dinitrophenols	5.12	U	1450	457.0		ug/Kg	☼	32	15 - 130
2,4-Dinitrotoluene	3.91	U	725	708.6		ug/Kg	☼	98	45 - 130
Diethyl phthalate	9.14	U	725	736.4		ug/Kg	☼	102	50 - 130
Fluorene	2.56	U	725	670.8		ug/Kg	☼	93	46 - 130
Dinitro-o-cresol	5.40	U	1450	838.3		ug/Kg	☼	58	38 - 130
N-Nitrosodiphenylamine	2.05	U	725	769.0		ug/Kg	☼	106	48 - 130
Diphenylhydrazine, 1,2-	1.76	U	725	750.1		ug/Kg	☼	103	50 - 130
Hexachlorobenzene	1.65	U	725	713.6		ug/Kg	☼	98	44 - 130
Atrazine	5.44	U	725	517.1		ug/Kg	☼	71	10 - 140
Pentachlorophenol	4.34	U	1450	1048		ug/Kg	☼	72	40 - 130
Phenanthrene	5.37	U	725	759.6		ug/Kg	☼	105	51 - 130
Anthracene	1.39	U	725	790.6		ug/Kg	☼	109	51 - 130
Dibutylphthalate	2.81	U	725	912.6		ug/Kg	☼	126	51 - 135
Fluoranthene	3.37	U	725	800.5		ug/Kg	☼	110	53 - 130
Benzidine	9.78	U	3620	1070		ug/Kg	☼	30	10 - 130
Pyrene	1.98	U	725	823.7		ug/Kg	☼	114	53 - 130
Dichlorobenzidine, 3,3'-	11.0	U	725	582.5		ug/Kg	☼	80	13 - 146
Benzo[a]anthracene	1.50	U	725	803.6		ug/Kg	☼	111	54 - 130
Di (2-ethylhexyl)phthalate	5.82	U	725	892.7		ug/Kg	☼	120	41 - 145

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-209483-2 MS — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301300 — **Prep Batch: 300979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	1.11	U	725	821.1		ug/Kg	☼	113	52 - 130
Benzo[b]fluoranthene	1.87	U	725	785.3		ug/Kg	☼	108	41 - 139
Benzo[k]fluoranthene	1.62	U	725	768.2		ug/Kg	☼	106	42 - 134
Benzo[a]pyrene	1.75	U	725	750.5		ug/Kg	☼	104	44 - 131
Indeno[1,2,3-cd]pyrene	3.80	U	725	814.1		ug/Kg	☼	112	35 - 146
Dibenz(a,h)anthracene	3.94	U	725	841.3		ug/Kg	☼	116	40 - 137
Benzo[g,h,i]perylene	5.50	U	725	860.7		ug/Kg	☼	119	38 - 142
bis (2-chloroisopropyl) ether	9.59	U	725	572.5		ug/Kg	☼	79	38 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*88*		*10 - 148*
2-Fluorobiphenyl	*80*		*38 - 130*
2-Fluorophenol	*75*		*25 - 132*
Nitrobenzene-d5	*79*		*10 - 155*
Terphenyl-d14	*106*		*53 - 134*
Phenol-d5 (Surr)	*60*		*27 - 130*

Lab Sample ID: 600-209483-2 MSD — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301300 — **Prep Batch: 300979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Nitrosodimethylamine	4.54	U	722	605.0		ug/Kg	☼	84	29 - 130	9	30
Bis(2-chloroethyl)ether	1.79	U	722	613.8		ug/Kg	☼	85	40 - 130	2	30
Hexachloroethane	2.50	U	722	583.0		ug/Kg	☼	81	37 - 130	9	30
Nitrobenzene	3.21	U	722	631.5		ug/Kg	☼	87	42 - 130	5	30
Isophorone	1.08	U	722	647.4		ug/Kg	☼	90	39 - 130	7	30
2,4-Dichlorophenol	4.20	U	722	674.7		ug/Kg	☼	93	38 - 130	16	30
Naphthalene	1.46	U	722	623.2		ug/Kg	☼	86	40 - 130	7	30
Hexachlorobutadiene	2.08	U	722	593.4		ug/Kg	☼	82	36 - 130	2	30
2-Methylnaphthalene	2.97	U	722	672.2		ug/Kg	☼	93	43 - 130	8	30
1-Methylnaphthalene	1.70	U	722	639.6		ug/Kg	☼	89	43 - 130	6	30
1,2,4,5-Tetrachlorobenzene	7.32	U	722	640.1		ug/Kg	☼	89	37 - 130	7	30
Hexachlorocyclopentadiene	5.00	U	722	472.1		ug/Kg	☼	65	10 - 130	6	30
2,4,6-Trichlorophenol	2.91	U	722	617.0		ug/Kg	☼	85	39 - 130	3	30
2,4,5-Trichlorophenol	10.9	U	722	731.1		ug/Kg	☼	101	41 - 130	11	30
Dimethyl phthalate	5.30	U	722	738.8		ug/Kg	☼	102	40 - 130	8	30
Acenaphthylene	1.08	U	722	702.2		ug/Kg	☼	97	39 - 130	9	30
2,6-Dinitrotoluene	3.20	U	722	714.5		ug/Kg	☼	99	44 - 130	6	30
Acenaphthene	1.56	U	722	674.3		ug/Kg	☼	93	42 - 130	7	30
Dinitrophenols	5.12	U	1440	860.0	N2	ug/Kg	☼	60	15 - 130	61	30
2,4-Dinitrotoluene	3.91	U	722	729.2		ug/Kg	☼	101	45 - 130	3	30
Diethyl phthalate	9.14	U	722	766.8		ug/Kg	☼	106	50 - 130	4	30
Fluorene	2.56	U	722	712.3		ug/Kg	☼	99	46 - 130	6	30
Dinitro-o-cresol	5.40	U	1440	1091		ug/Kg	☼	76	38 - 130	26	30
N-Nitrosodiphenylamine	2.05	U	722	791.1		ug/Kg	☼	110	48 - 130	3	30
Diphenylhydrazine, 1,2-	1.76	U	722	775.0		ug/Kg	☼	107	50 - 130	3	30
Hexachlorobenzene	1.65	U	722	743.7		ug/Kg	☼	103	44 - 130	4	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 600-209483-2 MSD — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301300 — **Prep Batch: 300979**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	5.44	U	722	561.4		ug/Kg	☼	78	10 - 140	8	30
Pentachlorophenol	4.34	U	1440	1101		ug/Kg	☼	76	40 - 130	5	30
Phenanthrene	5.37	U	722	809.9		ug/Kg	☼	112	51 - 130	6	30
Anthracene	1.39	U	722	809.9		ug/Kg	☼	112	51 - 130	2	30
Dibutylphthalate	2.81	U	722	918.4		ug/Kg	☼	127	51 - 135	1	30
Fluoranthene	3.37	U	722	824.3		ug/Kg	☼	114	53 - 130	3	30
Benzidine	9.78	U	3610	578.6	N2	ug/Kg	☼	16	10 - 130	60	40
Pyrene	1.98	U	722	856.5		ug/Kg	☼	119	53 - 130	4	30
Dichlorobenzidine, 3,3'-	11.0	U	722	541.9		ug/Kg	☼	75	13 - 146	7	30
Benzo[a]anthracene	1.50	U	722	822.6		ug/Kg	☼	114	54 - 130	2	30
Di (2-ethylhexyl)phthalate	5.82	U	722	902.9		ug/Kg	☼	122	41 - 145	1	30
Chrysene	1.11	U	722	839.1		ug/Kg	☼	116	52 - 130	2	30
Benzo[b]fluoranthene	1.87	U	722	902.0		ug/Kg	☼	125	41 - 139	14	30
Benzo[k]fluoranthene	1.62	U	722	823.2		ug/Kg	☼	114	42 - 134	7	30
Benzo[a]pyrene	1.75	U	722	776.3		ug/Kg	☼	108	44 - 131	3	30
Indeno[1,2,3-cd]pyrene	3.80	U	722	826.2		ug/Kg	☼	114	35 - 146	1	30
Dibenz(a,h)anthracene	3.94	U	722	869.5		ug/Kg	☼	120	40 - 137	3	30
Benzo[g,h,i]perylene	5.50	U	722	909.6		ug/Kg	☼	126	38 - 142	6	30
bis (2-chloroisopropyl) ether	9.59	U	722	612.2		ug/Kg	☼	85	38 - 130	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*90*		*10 - 148*
2-Fluorobiphenyl	*90*		*38 - 130*
2-Fluorophenol	*84*		*25 - 132*
Nitrobenzene-d5	*86*		*10 - 155*
Terphenyl-d14	*110*		*53 - 134*
Phenol-d5 (Surr)	*83*		*27 - 130*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 500677 — **Prep Batch: 500496**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/17/20 09:48	08/18/20 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*30 - 164*	*08/17/20 09:48*	*08/18/20 13:08*	*1*

Lab Sample ID: LCS 400-500496/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 500677 — **Prep Batch: 500496**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	333	320.1		ug/Kg		96	40 - 140

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8270D - Pesticides by GC/MS (Continued)

Lab Sample ID: LCS 400-500496/2-A
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500496

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*94*		*30 - 164*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		08/08/20 07:14	08/08/20 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/08/20 07:14*	*08/08/20 09:47*	*1*

Lab Sample ID: LCS 600-300708/1-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300708

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			5.04	5.069		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*

Lab Sample ID: LCSD 600-300708/2-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.04	5.417		mg/Kg		108	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*47 - 150*	*08/11/20 08:51*	*08/11/20 19:37*	*1*
Tetrachloro-m-xylene	*116*		*50 - 143*	*08/11/20 08:51*	*08/11/20 19:37*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			16.6	18.06		ug/Kg		109	42 - 150		
Hexachlorocyclohexane, beta-			16.6	18.03		ug/Kg		108	32 - 150		
Hexachlorocyclohexane, delta-			16.6	20.49		ug/Kg		123	33 - 150		
Hexachlorocyclohexane, alpha-			16.6	18.14		ug/Kg		109	63 - 130		
Hexachlorocyclohexane, gamma-			16.6	18.30		ug/Kg		110	36 - 150		
DDT			16.6	22.31		ug/Kg		134	46 - 150		
Dieldrin			16.6	18.72		ug/Kg		113	42 - 150		
Endosulfan I			16.6	13.84		ug/Kg		83	37 - 150		
Endosulfan II			16.6	18.94		ug/Kg		114	43 - 150		
Endosulfan sulfate			16.6	20.02		ug/Kg		120	32 - 150		
Endrin			16.6	20.38		ug/Kg		123	41 - 150		
Endrin aldehyde			16.6	22.48		ug/Kg		135	42 - 150		
Heptachlor			16.6	18.17		ug/Kg		109	35 - 150		
Heptachlor epoxide			16.6	17.12		ug/Kg		103	42 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-			16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-			16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-			16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-			16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT			16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin			16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I			16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II			16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate			16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*
DCB Decachlorobiphenyl	*165*	*X*	*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*

Lab Sample ID: LCS 600-300862/4-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.166	0.1532		mg/Kg		92	42 - 130		
PCB-1260			0.166	0.1225		mg/Kg		74	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*10 - 150*
DCB Decachlorobiphenyl	*104*		*10 - 150*

Lab Sample ID: LCSD 600-300862/5-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260			0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*10 - 150*
DCB Decachlorobiphenyl	*101*		*10 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: 600-209483-1 MS
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	21.2		136	156.0		mg/Kg	☼	99	80 - 120
Nitrite as N	2.02	U	136	143.3		mg/Kg	☼	106	80 - 120

Lab Sample ID: 600-209483-1 MSD
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	21.2		136	191.2	N1	mg/Kg	☼	125	80 - 120	20	20
Nitrite as N	2.02	U	136	145.9		mg/Kg	☼	107	80 - 120	2	20

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			75.0	82.00		mg/Kg		109	90 - 110		
Sulfate			200	193.9		mg/Kg		97	90 - 110		

Lab Sample ID: 600-209483-1 MS
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	157		679	892.5		mg/Kg	☼	108	80 - 120		
Fluoride	9.60	J	136	199.2	N1	mg/Kg	☼	140	80 - 120		

Lab Sample ID: 600-209483-1 MSD
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	157		679	1074	N1	mg/Kg	☼	135	80 - 120	18	20
Fluoride	9.60	J	136	243.9	N1	mg/Kg	☼	173	80 - 120	20	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505741/1-A
Matrix: Solid
Analysis Batch: 506218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505741

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		08/14/20 16:49	08/19/20 22:22	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/14/20 16:49	08/19/20 22:22	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/14/20 16:49	08/19/20 22:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/14/20 16:49*	*08/19/20 22:22*	*1*

Lab Sample ID: LCS 280-505741/2-A
Matrix: Solid
Analysis Batch: 506218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505741

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	0.9954		mg/Kg		100	80 - 120		
Hexahydro-1,3,5-trinitro-1,3,5-triazine			1.00	0.9354		mg/Kg		94	80 - 124		
2,4,6-Trinitrotoluene			1.00	1.089		mg/Kg		109	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209483-2 MS — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506218 — **Prep Batch: 505741**

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	0.0225	U	0.985	0.9613		mg/Kg		98	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.985	0.8243		mg/Kg		84	80 - 124
2,4,6-Trinitrotoluene	0.0305	U	0.985	1.073		mg/Kg		109	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

Lab Sample ID: 600-209483-2 MSD — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506218 — **Prep Batch: 505741**

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	0.0225	U	0.973	0.9546		mg/Kg		98	80 - 120	1	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.973	0.8212		mg/Kg		84	80 - 124	0	30
2,4,6-Trinitrotoluene	0.0305	U	0.973	1.080		mg/Kg		111	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Lab Sample ID: 600-209483-2 DU — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506218 — **Prep Batch: 505741**

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	0.0225	U	0.0214	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.0406	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0305	U	0.0290	U	mg/Kg		NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 122*

Lab Sample ID: 600-209483-2 TRL — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506218 — **Prep Batch: 505741**

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	0.0225	U	0.0221	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0427	U	0.0420	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0305	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: 600-209483-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209483-2 TRL — **Client Sample ID: CELL18-SQUARE118-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506218 — **Prep Batch: 505741**

Surrogate	TRL %Recovery	TRL Qualifier	Limits
1,2-Dinitrobenzene	101		83 - 122

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505567/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506025 — **Prep Batch: 505567**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/13/20 12:00	08/20/20 13:29	1

Lab Sample ID: LCS 280-505567/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506025 — **Prep Batch: 505567**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.4069	J	ug/Kg		81	80 - 120

Lab Sample ID: 600-209483-1 MS — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506025 — **Prep Batch: 505567**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	1.08		0.647	4.167	N1	ug/Kg	☼	477	70 - 130

Lab Sample ID: 600-209483-1 MSD — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506025 — **Prep Batch: 505567**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	1.08		0.664	1.465	N1 N2	ug/Kg	☼	58	70 - 130	96	15

Lab Sample ID: DLCK 280-506024/12 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506024

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.0500	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 500633

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.500	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Surrogate	DLCK %Recovery	DLCK Qualifier	Limits
13C8 PFOA	108		57 - 153
13C8 PFOS	91		70 - 130

Lab Sample ID: MB 280-505864/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506717 — **Prep Batch: 505864**

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	104		57 - 153	08/17/20 14:49	08/24/20 11:46	1
13C8 PFOS	94		70 - 130	08/17/20 14:49	08/24/20 11:46	1

Lab Sample ID: LCS 280-505864/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506717 — **Prep Batch: 505864**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C8 PFOA	101		57 - 153
13C8 PFOS	98		70 - 130

Lab Sample ID: 600-209483-1 MS — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506717 — **Prep Batch: 505864**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	0.308	U	26.0	24.94		ug/Kg	☼	96	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	23.7	21.16		ug/Kg	☼	89	70 - 135
Perfluorooctanesulfonic acid (PFOS)	0.187	U	24.1	24.43		ug/Kg	☼	101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
13C8 PFOA	104		57 - 153
13C8 PFOS	99		70 - 130

Lab Sample ID: 600-209483-1 MSD — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506717 — **Prep Batch: 505864**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA)	0.308	U	26.4	24.67		ug/Kg	☼	93	70 - 131	1	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 600-209483-1 MSD — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 506717 — **Prep Batch: 505864**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	0.375	U	24.0	22.62		ug/Kg	☼	94	70 - 135	7	30
Perfluorooctanesulfonic acid (PFOS)	0.187	U	24.5	23.81		ug/Kg	☼	97	70 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*97*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 479582 — **Prep Batch: 479336**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Lab Sample ID: MB 160-479336/1-A ^2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 480286 — **Prep Batch: 479336**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/21/20 17:53	2

Lab Sample ID: LCS 160-479336/2-A ^2 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 479582 — **Prep Batch: 479336**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	986	1028		mg/Kg		104	32 - 167

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-479336/2-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Lab Sample ID: 600-209483-1 MS
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 479336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.934	U	26.0	24.31		mg/Kg	☼	94	75 - 125
Arsenic	4.98	U	130	138.6		mg/Kg	☼	107	75 - 125
Barium	341		130	483.8		mg/Kg	☼	110	75 - 125
Beryllium	0.498	U	13.0	12.16		mg/Kg	☼	94	75 - 125
Cadmium	1.05		130	127.1		mg/Kg	☼	97	75 - 125
Chromium	5.60	U	130	138.6		mg/Kg	☼	107	75 - 125
Iron	3690		1300	5126		mg/Kg	☼	111	75 - 125
Copper	4.98	U	130	138.5		mg/Kg	☼	107	75 - 125
Manganese	37.6		130	172.5		mg/Kg	☼	104	75 - 125
Lead	3.40	J	130	130.1		mg/Kg	☼	98	75 - 125
Antimony	2.49	U	64.9	42.44	N1	mg/Kg	☼	65	75 - 125
Selenium	3.99	U	64.9	67.48		mg/Kg	☼	104	75 - 125
Thallium	2.49	U	25.9	26.06		mg/Kg	☼	100	75 - 125
Zinc	24.9	U	130	141.2		mg/Kg	☼	109	75 - 125
Uranium	1.59		130	132.8		mg/Kg	☼	101	75 - 125

Lab Sample ID: 600-209483-1 MSD
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 479336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.934	U	26.1	24.59		mg/Kg	☼	94	75 - 125	1	30
Arsenic	4.98	U	131	143.3		mg/Kg	☼	110	75 - 125	3	30
Barium	341		131	435.9	N1	mg/Kg	☼	73	75 - 125	10	30
Beryllium	0.498	U	13.1	12.29		mg/Kg	☼	94	75 - 125	1	30
Cadmium	1.05		130	127.6		mg/Kg	☼	97	75 - 125	0	30
Chromium	5.60	U	131	136.5		mg/Kg	☼	104	75 - 125	2	30
Iron	3690		1310	5120		mg/Kg	☼	109	75 - 125	0	30
Copper	4.98	U	131	139.1		mg/Kg	☼	107	75 - 125	0	30
Manganese	37.6		131	176.6		mg/Kg	☼	106	75 - 125	2	30
Lead	3.40	J	131	132.2		mg/Kg	☼	99	75 - 125	2	30
Antimony	2.49	U	65.3	40.92	N1	mg/Kg	☼	63	75 - 125	4	30
Selenium	3.99	U	65.3	65.79		mg/Kg	☼	101	75 - 125	3	30
Thallium	2.49	U	26.1	26.55		mg/Kg	☼	102	75 - 125	2	30
Zinc	24.9	U	131	147.9		mg/Kg	☼	113	75 - 125	5	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 600-209483-1 MSD — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 479582 — **Prep Batch: 479336**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Uranium	1.59		131	133.2		mg/Kg	☼	101	75 - 125	0	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Lab Sample ID: 600-209483-1 MS — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00486	U	0.339	0.3258		mg/Kg	☼	96	75 - 125

Lab Sample ID: 600-209483-1 DU — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.00486	U	0.007027	J	mg/Kg	☼	NC	20

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301544/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 301572

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			08/19/20 12:28	1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-209483-1 DU — **Client Sample ID: CELL17-SQUARE86-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 300861

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26.4		25.4		%		4	20
Percent Solids	73.6		74.6		%		1	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301255/1-A
Matrix: Solid
Analysis Batch: 301273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/14/20 14:14	08/14/20 17:08	1

Lab Sample ID: LCS 600-301255/2-A
Matrix: Solid
Analysis Batch: 301273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.09574		mg/Kg		96	90 - 110

Method: 9045D - pH

Lab Sample ID: 600-209483-1 DU
Matrix: Solid
Analysis Batch: 302075

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.0	H	8.1		SU		0.7	1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A
Matrix: Solid
Analysis Batch: 301633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A
Matrix: Solid
Analysis Batch: 301633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A
Matrix: Solid
Analysis Batch: 482295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479981

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-479981/2-A
Matrix: Solid
Analysis Batch: 482368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479981

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.5	94.70		9.93		0.973	pCi/g	98	87 - 116		
Cesium-137			26.9	25.80		2.74		0.148	pCi/g	96	87 - 120		
Cobalt-60			9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115		

Lab Sample ID: 600-209483-1 DU
Matrix: Solid
Analysis Batch: 482295

Client Sample ID: CELL17-SQUARE86-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 479981

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.846			0.8312		0.213	1.00	0.145	pCi/g			0.04	1
Radium-228	-0.0113	U		0.1079	U	0.269		0.468	pCi/g			0.38	1
Combined Radium 226 + 228	0.835			0.9392		0.343		0.468	pCi/g			0.19	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8260B	300712
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8260B	300712
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8260B	300712
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8270D	500496

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

GC/MS Semi VOA (Continued)

Analysis Batch: 500677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	5030B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3546	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3546	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

GC Semi VOA (Continued)

Analysis Batch: 300913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8082	300862
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8082	300862
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

HPLC/IC (Continued)

Leach Batch: 300916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	DI Leach	

Analysis Batch: 301663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Soluble	Solid	300.0	300916

ISM Prep Batch: 505447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Increment, prep	

Prep Batch: 505741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8330B	505447
MB 280-505741/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505741/2-A	Lab Control Sample	Total/NA	Solid	8330B	
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505447

Analysis Batch: 506218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	8330B	505741
MB 280-505741/1-A	Method Blank	Total/NA	Solid	8330B	505741
LCS 280-505741/2-A	Lab Control Sample	Total/NA	Solid	8330B	505741
600-209483-2 MS	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 MSD	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 DU	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741
600-209483-2 TRL	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	8330B	505741

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

LCMS (Continued)

Prep Batch: 505567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6860	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505567/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505567/2-A	Lab Control Sample	Total/NA	Solid	6860	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6860	505567
MB 280-505567/1-A	Method Blank	Total/NA	Solid	6860	505567
LCS 280-505567/2-A	Lab Control Sample	Total/NA	Solid	6860	505567
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6860	505567

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	7471B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Metals (Continued)

Prep Batch: 302704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336
600-209483-1 MS	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336
600-209483-1 MSD	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	6020	479336

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	2540B	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	2540B	

Prep Batch: 301255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9012B	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9012B	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9012B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

General Chemistry (Continued)

Prep Batch: 301255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-301255/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301255/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 301273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9012B	301255
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9012B	301255
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9012B	301255
MB 600-301255/1-A	Method Blank	Total/NA	Solid	9012B	301255
LCS 600-301255/2-A	Lab Control Sample	Total/NA	Solid	9012B	301255

Leach Batch: 301544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301544/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
600-209483-2	CELL18-SQUARE118-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
600-209483-3	CELL18-SQUARE157-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301544
LB 600-301544/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301544

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9066	301626
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9066	301626
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9066	301626
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9045D	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	9045D	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	9045D	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209483-1	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209483-2	CELL18-SQUARE118-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209483-3	CELL18-SQUARE157-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-209483-1 DU	CELL17-SQUARE86-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1
Date Collected: 08/06/20 13:05
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.13 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/19/20 23:08	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	50 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			335.3 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482294	09/12/20 09:55	SCB	TAL SL

Client Sample ID: CELL17-SQUARE86-S-2-3-200806

Lab Sample ID: 600-209483-1
Date Collected: 08/06/20 13:05
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.63 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 09:26	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 09:49	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 10:01	TTD	TAL HOU
Total/NA	Prep	3546			15.53 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 18:35	PP1	TAL PEN
Total/NA	Prep	5030B			9.90 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 10:12	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 13:34	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 20:51	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 14:26	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		5			300880	08/11/20 17:25	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		5			300881	08/11/20 17:25	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		50	5 mL	1.0 mL	301663	08/20/20 20:32	DAW	TAL HOU
Total/NA	Prep	6860			10.74 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 13:45	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.144 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:04	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5451 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:28	FLC	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:26	DCL	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE86-S-2-3-200806 Lab Sample ID: 600-209483-1

Date Collected: 08/06/20 13:05 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 73.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			0.530 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:13	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:34	AML	TAL HOU

Client Sample ID: CELL18-SQUARE118-S-2-3-200806 Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36 **Matrix: Solid**
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.07 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/19/20 23:31	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.13 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			387.7 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482295	09/12/20 09:54	SCB	TAL SL

Client Sample ID: CELL18-SQUARE118-S-2-3-200806 Lab Sample ID: 600-209483-2

Date Collected: 08/06/20 13:36 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 91.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.85 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 09:49	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 09:49	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1	1 mL	1.0 mL	301300	08/17/20 10:24	TTD	TAL HOU
Total/NA	Prep	3546			15.38 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:00	PP1	TAL PEN
Total/NA	Prep	5030B			10.20 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 10:37	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 14:08	RJV	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 21:16	JAL	TAL HOU
Total/NA	Prep	3546			15.05 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 14:51	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 18:26	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 18:26	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Client Sample ID: CELL18-SQUARE118-S-2-3-200806

Lab Sample ID: 600-209483-2
Date Collected: 08/06/20 13:36
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.50 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 14:00	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.1 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:30	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5208 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:39	FLC	TAL SL
Total/NA	Prep	3050B			0.5208 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		100			480286	08/21/20 17:55	FLC	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:33	DCL	TAL HOU
Total/NA	Prep	9012B			0.516 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:13	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.506 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:35	AML	TAL HOU

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3
Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505447	08/12/20 15:26	EKB	TAL DEN
Total/NA	Prep	8330B			10.36 g	40 mL	505741	08/14/20 16:49	TEH	TAL DEN
Total/NA	Analysis	8330B		1			506218	08/20/20 01:27	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301544	08/12/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301572	08/19/20 12:28	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.01 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			351 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 09:53	SCB	TAL SL

Client Sample ID: CELL18-SQUARE157-S-2-3-200806

Lab Sample ID: 600-209483-3
Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.52 g	5 mL	300712	08/08/20 08:54	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 10:12	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 09:52	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 11:36	TTD	TAL HOU
Total/NA	Prep	3546			15.00 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:25	PP1	TAL PEN
Total/NA	Prep	5030B			9.40 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:02	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE157-S-2-3-200806
Lab Sample ID: 600-209483-3

Date Collected: 08/06/20 14:10
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 14:42	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 21:40	JAL	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 15:16	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 18:47	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 18:47	W1N	TAL HOU
Total/NA	Prep	6860			10.49 g	100 mL	505567	08/13/20 12:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506025	08/20/20 14:05	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.52 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:39	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5619 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:42	FLC	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:36	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301255	08/14/20 14:14	AML	TAL HOU
Total/NA	Analysis	9012B		1			301273	08/14/20 17:14	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.509 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:36	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209483-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209483-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039 1
Client Contact: Alison Schaffer	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested:			
City: Highlands Ranch	TAT Requested (days): Std			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 60012538			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site: Jal Landfarm				

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=wasteoil, 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:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell 17 - Square 86 - S-2-3-200806	8/6/20	1305	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 18 - Square 118 - S-2-3-200806	8/6/20	1330	G	Solid			/	/	/	/	/	/	/	/	/	/	/	7	7	11	
Cell 18 - Square 157 - S-2-3-200806	8/6/20	1410	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp Blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/06/20

600-209483 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/06/20 1700	Arcadis		8/7/20 920	EPT
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

Loc: 600
209483

Eurofins TestAmerica Houston

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Sample Receipt Checklist

'20 AUG 7 0:20

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: _____ CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
8240	Y / N	Y / N	3.6	680	+0.1	3.7
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

8/7/20

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/7/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45959.1
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 #: 600-209483-1
Address: 13715 Rider Trail North	Due Date Requested: 8/18/2020			
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 #: 60012538			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL17-SQUARE86-5-2-3-200806 (600-209483-1)	8/6/20	13:05 Central		Solid			X	X	X	3	
CELL18-SQUARE118-5-2-3-200806 (600-209483-2)	8/6/20	13:36 Central		Solid			X	X	X	3	
CELL18-SQUARE157-5-2-3-200806 (600-209483-3)	8/6/20	14:10 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	8/11/20 16:00	ETA	FEDEX		
FEDEX			[signature]	AUG 12 2020 09:30	ETA STL

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45952.1
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 #: 600-209483-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/25/2020			
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 #: 60012538			
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)	6850/6860_Prep Standard 6850 list	PFC/PFC_Leach (MOD) Custom List	8330B/ISM_DD_SI_SS (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL17-SQUARE86-5-2-3-200806 (600-209483-1)	8/6/20	13:05 Central		Solid			X	X	X	3	, ism subsampling is not required.
CELL18-SQUARE118-5-2-3-200806 (600-209483-2)	8/6/20	13:36 Central		Solid			X	X	X	3	, ism subsampling is not required.
CELL18-SQUARE157-5-2-3-200806 (600-209483-3)	8/6/20	14:10 Central		Solid			X	X	X	3	, ism subsampling is not required.

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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:
Sandra Jones	8/11/20 16:00	ETA	D [illegible]	8-12-20 0900	ETADen
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8, IR10, -0.1, DS 8-12-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45954.1
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 #: 600-209483-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/25/2020			
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 #: 60012538			
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-SQUARE86-5-2-3-200806 (600-209483-1)	8/6/20	13:05 Central		Solid			X	1	
CELL18-SQUARE118-5-2-3-200806 (600-209483-2)	8/6/20	13:36 Central		Solid			X	1	
CELL18-SQUARE157-5-2-3-200806 (600-209483-3)	8/6/20	14:10 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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:
Sarah Jones	8/11/20 16:00	ETA			
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time: 8/12/2020 0926	Company: ETA

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-3°C IR7

Ver: 01/16/2019



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947352

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209483-1

Login Number: 209483 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Upton, Cathy L

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	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209483-1

Login Number: 209483 **List Source: Eurofins TestAmerica, Denver**
List Number: 2 **List Creation: 08/12/20 01:08 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209483-1

Login Number: 209483 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 3 **List Creation: 08/12/20 04:52 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.	True	947352
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3°C IR7
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: 600-209483-1

Login Number: 209483
List Number: 4
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/12/20 05:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209485-1
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:
9/15/2020 10:18:35 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209485-1

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Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Solid	08/06/20 10:47	08/07/20 09:20	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Solid	08/06/20 11:30	08/07/20 09:20	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Solid	08/06/20 12:27	08/07/20 09:20	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Date Collected: 08/06/20 10:47
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-1
Matrix: Solid
Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.85	U	11.2	1.85	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Vinyl chloride	1.00	U	11.2	1.00	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Bromomethane	0.927	U *	11.2	0.927	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Trichlorofluoromethane	0.737	U	11.2	0.737	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Acrolein	6.95	U	27.9	6.95	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloroethene	1.36	U	5.58	1.36	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
trans-1,2-Dichloroethene	1.27	U	5.58	1.27	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Methyl tert-butyl ether	2.04	U	5.58	2.04	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Methylene Chloride	2.44	U	11.2	2.44	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Acrylonitrile	6.50	U	55.8	6.50	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
cis-1,2-Dichloroethene	0.927	U	5.58	0.927	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Carbon tetrachloride	1.26	U	5.58	1.26	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Benzene	0.703	U	5.58	0.703	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichloroethane	1.00	U	5.58	1.00	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Trichloroethene	1.56	U	5.58	1.56	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1,1-Trichloroethane	0.826	U	5.58	0.826	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloroethane	0.971	U	5.58	0.971	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichloropropane	0.793	U	5.58	0.793	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,4-Dioxane	69.3	U	558	69.3	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Chloroform	**1.05**	**J b**	11.2	0.737	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Bromodichloromethane	0.737	U	5.58	0.737	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1-Dichloropropene	0.726	U	5.58	0.726	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
cis-1,3-Dichloropropene	0.603	U	5.58	0.603	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Toluene	1.54	U	5.58	1.54	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
trans-1,3-Dichloropropene	0.647	U	5.58	0.647	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1,2-Trichloroethane	0.815	U	5.58	0.815	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Tetrachloroethene	0.793	U	5.58	0.793	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,3-Dichloropropene, Total	0.647	U	5.58	0.647	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,2-Dibromoethane	1.14	U	5.58	1.14	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Monochlorobenzene	1.07	U	5.58	1.07	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Ethylbenzene	1.14	U	5.58	1.14	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Xylenes, Total	1.26	U	5.58	1.26	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Styrene	0.793	U	5.58	0.793	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Tribromomethane	1.53	U	5.58	1.53	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,1,2,2-Tetrachloroethane	0.971	U	5.58	0.971	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,4-Dichlorobenzene	0.737	U	5.58	0.737	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,2-Dichlorobenzene	0.893	U	5.58	0.893	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
1,2,4-Trichlorobenzene	2.20	U	5.58	2.20	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1
Dichlorodifluoromethane	1.72	U	5.58	1.72	ug/Kg	☼	08/08/20 10:45	08/08/20 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*61 - 130*	*08/08/20 10:45*	*08/08/20 12:53*	*1*
Dibromofluoromethane	*82*		*68 - 140*	*08/08/20 10:45*	*08/08/20 12:53*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*	*08/08/20 10:45*	*08/08/20 12:53*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*	*08/08/20 10:45*	*08/08/20 12:53*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.63	U	36.8	4.63	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodiethylamine	7.94	U *	36.8	7.94	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Date Collected: 08/06/20 10:47
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-1
Matrix: Solid
Percent Solids: 89.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.82	U	36.8	1.82	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Hexachloroethane	2.55	U	36.8	2.55	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosopyrrolidine	5.16	U *	36.8	5.16	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Nitrobenzene	3.27	U	36.8	3.27	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Isophorone	1.11	U	36.8	1.11	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2,4-Dichlorophenol	4.28	U	36.8	4.28	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Naphthalene	1.49	U	36.8	1.49	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Hexachlorobutadiene	2.12	U	36.8	2.12	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodi-n-butylamine	18.4	U *	36.8	18.4	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2-Methylnaphthalene	3.03	U	36.8	3.03	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
1-Methylnaphthalene	1.74	U	36.8	1.74	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
1,2,4,5-Tetrachlorobenzene	7.46	U	36.8	7.46	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Hexachlorocyclopentadiene	5.10	U	36.8	5.10	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2,4,6-Trichlorophenol	2.96	U	36.8	2.96	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2,4,5-Trichlorophenol	11.1	U	36.8	11.1	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dimethyl phthalate	5.40	U	73.7	5.40	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Acenaphthylene	1.11	U	36.8	1.11	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2,6-Dinitrotoluene	3.26	U	36.8	3.26	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Acenaphthene	1.59	U	36.8	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dinitrophenols	5.22	U	111	5.22	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Pentachlorobenzene	4.43	U *	36.8	4.43	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
2,4-Dinitrotoluene	3.99	U	36.8	3.99	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Diethyl phthalate	9.32	U	73.7	9.32	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Fluorene	2.61	U	36.8	2.61	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dinitro-o-cresol	5.50	U	188	5.50	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
N-Nitrosodiphenylamine	2.09	U	36.8	2.09	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Diphenylhydrazine, 1,2-	1.79	U	36.8	1.79	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Hexachlorobenzene	1.68	U	36.8	1.68	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Atrazine	5.55	U	36.8	5.55	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Pentachlorophenol	4.42	U	185	4.42	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Phenanthrene	5.47	U	36.8	5.47	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Anthracene	1.41	U	36.8	1.41	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dibutylphthalate	2.86	U	73.7	2.86	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Fluoranthene	3.44	U	36.8	3.44	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzidine	9.97	U	365	9.97	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Pyrene	2.02	U	36.8	2.02	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dichlorobenzidine, 3,3'-	11.2	U	36.8	11.2	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzo[a]anthracene	1.53	U	36.8	1.53	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Di (2-ethylhexyl)phthalate	5.94	U	36.8	5.94	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Chrysene	1.13	U	36.8	1.13	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzo[b]fluoranthene	1.90	U	36.8	1.90	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzo[k]fluoranthene	1.65	U	36.8	1.65	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzo[a]pyrene	1.78	U	36.8	1.78	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Indeno[1,2,3-cd]pyrene	3.87	U	36.8	3.87	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Dibenz(a,h)anthracene	4.01	U	36.8	4.01	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Benzo[g,h,i]perylene	5.60	U	36.8	5.60	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
bis (2-chloroisopropyl) ether	9.77	U	36.8	9.77	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1
Thiophene, tetrahydro-, 1,1-dioxide	18.4	U	36.8	18.4	ug/Kg	☼	08/12/20 11:16	08/17/20 12:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Date Collected: 08/06/20 10:47
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-1
Matrix: Solid
Percent Solids: 89.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*10 - 148*	*08/12/20 11:16*	*08/17/20 12:00*	*1*
2-Fluorobiphenyl	*86*		*38 - 130*	*08/12/20 11:16*	*08/17/20 12:00*	*1*
2-Fluorophenol	*77*		*25 - 132*	*08/12/20 11:16*	*08/17/20 12:00*	*1*
Nitrobenzene-d5	*82*		*10 - 155*	*08/12/20 11:16*	*08/17/20 12:00*	*1*
Terphenyl-d14	*101*		*53 - 134*	*08/12/20 11:16*	*08/17/20 12:00*	*1*
Phenol-d5 (Surr)	*74*		*27 - 130*	*08/12/20 11:16*	*08/17/20 12:00*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.3	U	72.9	13.3	ug/Kg	☼	08/17/20 09:48	08/18/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*32*		*30 - 164*	*08/17/20 09:48*	*08/18/20 19:50*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.657	U	1.12	0.657	mg/Kg	☼	08/08/20 07:14	08/08/20 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*70 - 130*	*08/08/20 07:14*	*08/08/20 11:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.84	U	8.31	2.84	mg/Kg	☼	08/10/20 15:56	08/13/20 15:16	1
C28-C36	**30.4**		8.31	8.31	mg/Kg	☼	08/10/20 15:56	08/13/20 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*60 - 140*	*08/10/20 15:56*	*08/13/20 15:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.45	U	1.88	1.45	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, beta-	1.13	U	1.88	1.13	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, delta-	0.939	U	1.88	0.939	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, alpha-	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Hexachlorocyclohexane, gamma-	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Chlordane (technical)	25.9	U	82.9	25.9	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
DDT	2.04	U	3.65	2.04	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Dieldrin	1.54	U	3.65	1.54	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan I	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan II	1.67	U	3.65	1.67	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endosulfan sulfate	1.86	U	3.65	1.86	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endrin	1.69	U	3.65	1.69	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Endrin aldehyde	1.72	U	3.65	1.72	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Heptachlor	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Heptachlor epoxide	1.29	U	1.88	1.29	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1
Toxaphene	80.8	U	188	80.8	ug/Kg	☼	08/11/20 08:51	08/11/20 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*47 - 150*	*08/11/20 08:51*	*08/11/20 22:05*	*1*
Tetrachloro-m-xylene	*70*		*50 - 143*	*08/11/20 08:51*	*08/11/20 22:05*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE197-S-2-3-200806

Date Collected: 08/06/20 10:47
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-1

Matrix: Solid
Percent Solids: 89.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00177	U	0.0185	0.00177	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1221	0.00954	U	0.0185	0.00954	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1232	0.00741	U	0.0185	0.00741	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1242	0.00137	U	0.0185	0.00137	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1248	0.00275	U	0.0185	0.00275	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1254	0.00244	U	0.0185	0.00244	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1
PCB-1260	0.0149	U	0.0185	0.0149	mg/Kg	☼	08/11/20 08:51	08/12/20 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*10 - 150*	*08/11/20 08:51*	*08/12/20 15:41*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*08/11/20 08:51*	*08/12/20 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.83**		4.45	0.594	mg/Kg	☼		08/11/20 19:07	1
Nitrate as N	**22.7**		2.22	0.279	mg/Kg	☼		08/11/20 19:07	1
Fluoride	**3.55**		2.22	0.669	mg/Kg	☼		08/11/20 19:07	1
Nitrite as N	0.330	U	2.22	0.330	mg/Kg	☼		08/11/20 19:07	1
Sulfate	**68.4**		5.56	1.06	mg/Kg	☼		08/11/20 19:07	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		08/12/20 15:04	08/13/20 17:27	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		08/12/20 15:04	08/13/20 17:27	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		08/12/20 15:04	08/13/20 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*99*		*83 - 122*	*08/12/20 15:04*	*08/13/20 17:27*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.759**		0.546	0.0899	ug/Kg	☼	08/12/20 11:00	08/20/20 14:47	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.237	U	0.826	0.237	ug/Kg	☼	08/17/20 14:49	08/24/20 12:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.289	U	0.826	0.289	ug/Kg	☼	08/17/20 14:49	08/24/20 12:47	1
Perfluorooctanesulfonic acid (PFOS)	0.145	U	0.826	0.145	ug/Kg	☼	08/17/20 14:49	08/24/20 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 12:47*	*1*
13C8 PFOS	*96*		*70 - 130*	*08/17/20 14:49*	*08/24/20 12:47*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.813	U	2.17	0.813	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Arsenic	4.33	U	10.8	4.33	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Barium	**122**		21.7	5.42	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Beryllium	0.433	U	1.08	0.433	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Cadmium	0.260	U	0.542	0.260	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Chromium	4.88	U	10.8	4.88	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE197-S-2-3-200806 Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 89.9

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1700**		130	65.0	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Copper	4.33	U	10.8	4.33	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Manganese	**19.5**		5.42	2.17	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Lead	1.35	U	3.25	1.35	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Antimony	2.17	U	5.42	2.17	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Selenium	3.47	U	5.42	3.47	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Thallium	2.17	U	5.42	2.17	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Zinc	21.7	U	54.2	21.7	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20
Uranium	0.433	U	1.08	0.433	mg/Kg	☼	08/13/20 11:03	08/14/20 19:44	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00385	U	0.0183	0.00385	mg/Kg	☼	09/02/20 13:16	09/03/20 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**89.9**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0188	U	0.125	0.0188	mg/Kg	☼	08/19/20 16:06	08/19/20 22:15	1
pH	**9.0**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	**0.759**	**b**	0.554	0.464	mg/Kg	☼	08/19/20 16:29	08/19/20 20:37	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**117**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.738**		0.173	0.189	1.00	0.134	pCi/g	08/20/20 11:43	09/12/20 10:33	1
Radium-228	0.119	U	0.179	0.180		0.318	pCi/g	08/20/20 11:43	09/12/20 10:33	1
Combined Radium 226 + 228	**0.857**		0.249	0.261		0.318	pCi/g	08/20/20 11:43	09/12/20 10:33	1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806 Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.80	U	10.8	1.80	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Vinyl chloride	0.976	U	10.8	0.976	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Bromomethane	0.900	U *	10.8	0.900	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Trichlorofluoromethane	0.716	U	10.8	0.716	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Acrolein	6.76	U	27.1	6.76	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloroethene	1.32	U	5.42	1.32	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
trans-1,2-Dichloroethene	1.24	U	5.42	1.24	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Methyl tert-butyl ether	1.98	U	5.42	1.98	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Methylene Chloride	2.37	U	10.8	2.37	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Acrylonitrile	6.31	U	54.2	6.31	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806
Date Collected: 08/06/20 11:30
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-2
Matrix: Solid
Percent Solids: 95.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.900	U	5.42	0.900	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Carbon tetrachloride	1.23	U	5.42	1.23	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Benzene	0.683	U	5.42	0.683	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichloroethane	0.976	U	5.42	0.976	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Trichloroethene	1.52	U	5.42	1.52	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1,1-Trichloroethane	0.802	U	5.42	0.802	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloroethane	0.943	U	5.42	0.943	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichloropropane	0.770	U	5.42	0.770	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,4-Dioxane	67.3	U	542	67.3	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Chloroform	**0.998**	**J b**	10.8	0.716	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Bromodichloromethane	0.716	U	5.42	0.716	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1-Dichloropropene	0.705	U	5.42	0.705	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
cis-1,3-Dichloropropene	0.586	U	5.42	0.586	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Toluene	1.50	U	5.42	1.50	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
trans-1,3-Dichloropropene	0.629	U	5.42	0.629	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1,2-Trichloroethane	0.792	U	5.42	0.792	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Tetrachloroethene	0.770	U	5.42	0.770	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,3-Dichloropropene, Total	0.629	U	5.42	0.629	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,2-Dibromoethane	1.11	U	5.42	1.11	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Monochlorobenzene	1.04	U	5.42	1.04	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Ethylbenzene	1.11	U	5.42	1.11	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Xylenes, Total	1.23	U	5.42	1.23	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Styrene	0.770	U	5.42	0.770	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Tribromomethane	1.49	U	5.42	1.49	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,1,2,2-Tetrachloroethane	0.943	U	5.42	0.943	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,4-Dichlorobenzene	0.716	U	5.42	0.716	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,2-Dichlorobenzene	0.868	U	5.42	0.868	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
1,2,4-Trichlorobenzene	2.14	U	5.42	2.14	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1
Dichlorodifluoromethane	1.67	U	5.42	1.67	ug/Kg	☼	08/08/20 10:45	08/08/20 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*61 - 130*	*08/08/20 10:45*	*08/08/20 13:16*	*1*
Dibromofluoromethane	*85*		*68 - 140*	*08/08/20 10:45*	*08/08/20 13:16*	*1*
Toluene-d8 (Surr)	*96*		*50 - 130*	*08/08/20 10:45*	*08/08/20 13:16*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*08/08/20 10:45*	*08/08/20 13:16*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.38	U	34.8	4.38	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodiethylamine	7.51	U *	34.8	7.51	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Bis(2-chloroethyl)ether	1.73	U	34.8	1.73	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Hexachloroethane	2.42	U	34.8	2.42	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosopyrrolidine	4.89	U *	34.8	4.89	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Nitrobenzene	3.10	U	34.8	3.10	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Isophorone	1.05	U	34.8	1.05	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2,4-Dichlorophenol	4.05	U	34.8	4.05	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Naphthalene	1.41	U	34.8	1.41	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Hexachlorobutadiene	2.01	U	34.8	2.01	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodi-n-butylamine	17.4	U *	34.8	17.4	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2-Methylnaphthalene	**3.66**	**J**	34.8	2.87	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806
Date Collected: 08/06/20 11:30
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-2
Matrix: Solid
Percent Solids: 95.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.64	U	34.8	1.64	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
1,2,4,5-Tetrachlorobenzene	7.06	U	34.8	7.06	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Hexachlorocyclopentadiene	4.82	U	34.8	4.82	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2,4,6-Trichlorophenol	2.80	U	34.8	2.80	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2,4,5-Trichlorophenol	10.5	U	34.8	10.5	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dimethyl phthalate	5.12	U	69.8	5.12	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Acenaphthylene	1.05	U	34.8	1.05	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2,6-Dinitrotoluene	3.09	U	34.8	3.09	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Acenaphthene	1.51	U	34.8	1.51	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dinitrophenols	4.94	U	105	4.94	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Pentachlorobenzene	4.19	U *	34.8	4.19	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
2,4-Dinitrotoluene	3.78	U	34.8	3.78	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Diethyl phthalate	8.82	U	69.8	8.82	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Fluorene	2.47	U	34.8	2.47	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dinitro-o-cresol	5.21	U	178	5.21	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
N-Nitrosodiphenylamine	1.98	U	34.8	1.98	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Diphenylhydrazine, 1,2-	1.69	U	34.8	1.69	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Hexachlorobenzene	1.59	U	34.8	1.59	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Atrazine	5.25	U	34.8	5.25	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Pentachlorophenol	4.18	U	175	4.18	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Phenanthrene	5.18	U	34.8	5.18	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Anthracene	1.34	U	34.8	1.34	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dibutylphthalate	2.71	U	69.8	2.71	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Fluoranthene	3.25	U	34.8	3.25	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzidine	9.44	U	345	9.44	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Pyrene	1.91	U	34.8	1.91	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dichlorobenzidine, 3,3'-	10.6	U	34.8	10.6	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzo[a]anthracene	1.44	U	34.8	1.44	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Di (2-ethylhexyl)phthalate	5.62	U	34.8	5.62	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Chrysene	1.07	U	34.8	1.07	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzo[b]fluoranthene	1.80	U	34.8	1.80	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzo[k]fluoranthene	1.56	U	34.8	1.56	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzo[a]pyrene	1.68	U	34.8	1.68	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Indeno[1,2,3-cd]pyrene	3.66	U	34.8	3.66	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Dibenz(a,h)anthracene	3.80	U	34.8	3.80	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Benzo[g,h,i]perylene	5.30	U	34.8	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
bis (2-chloroisopropyl) ether	9.25	U	34.8	9.25	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1
Thiophene, tetrahydro-, 1,1-dioxide	17.4	U	34.8	17.4	ug/Kg	☼	08/12/20 11:16	08/17/20 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*10 - 148*	*08/12/20 11:16*	*08/17/20 12:25*	*1*
2-Fluorobiphenyl	*83*		*38 - 130*	*08/12/20 11:16*	*08/17/20 12:25*	*1*
2-Fluorophenol	*81*		*25 - 132*	*08/12/20 11:16*	*08/17/20 12:25*	*1*
Nitrobenzene-d5	*81*		*10 - 155*	*08/12/20 11:16*	*08/17/20 12:25*	*1*
Terphenyl-d14	*102*		*53 - 134*	*08/12/20 11:16*	*08/17/20 12:25*	*1*
Phenol-d5 (Surr)	*80*		*27 - 130*	*08/12/20 11:16*	*08/17/20 12:25*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.2	U	67.3	12.2	ug/Kg	☼	08/17/20 09:48	08/18/20 20:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Date Collected: 08/06/20 11:30
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-2

Matrix: Solid
Percent Solids: 95.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*70*		*30 - 164*	*08/17/20 09:48*	*08/18/20 20:15*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.640	U	1.09	0.640	mg/Kg	☼	08/08/20 07:14	08/08/20 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*08/08/20 07:14*	*08/08/20 11:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.68	U	7.83	2.68	mg/Kg	☼	08/10/20 15:56	08/13/20 15:50	1
C28-C36	**32.1**		7.83	7.83	mg/Kg	☼	08/10/20 15:56	08/13/20 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*123*		*60 - 140*	*08/10/20 15:56*	*08/13/20 15:50*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.37	U	1.78	1.37	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, beta-	1.07	U	1.78	1.07	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, delta-	0.889	U	1.78	0.889	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, alpha-	1.05	U	1.78	1.05	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Hexachlorocyclohexane, gamma-	0.972	U	1.78	0.972	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Chlordane (technical)	24.5	U	78.4	24.5	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
DDT	1.93	U	3.45	1.93	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Dieldrin	1.45	U	3.45	1.45	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan I	1.05	U	1.78	1.05	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan II	1.58	U	3.45	1.58	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endosulfan sulfate	1.76	U	3.45	1.76	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endrin	1.60	U	3.45	1.60	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Endrin aldehyde	1.63	U	3.45	1.63	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Heptachlor	0.972	U	1.78	0.972	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Heptachlor epoxide	1.22	U	1.78	1.22	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1
Toxaphene	76.4	U	178	76.4	ug/Kg	☼	08/11/20 08:51	08/11/20 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*102*		*47 - 150*	*08/11/20 08:51*	*08/11/20 22:30*	*1*
Tetrachloro-m-xylene	*101*		*50 - 143*	*08/11/20 08:51*	*08/11/20 22:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00167	U	0.0175	0.00167	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1221	0.00902	U	0.0175	0.00902	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1232	0.00700	U	0.0175	0.00700	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1242	0.00130	U	0.0175	0.00130	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1248	0.00260	U	0.0175	0.00260	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1254	0.00231	U	0.0175	0.00231	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1
PCB-1260	0.0141	U	0.0175	0.0141	mg/Kg	☼	08/11/20 08:51	08/12/20 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*94*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:06*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE152-S-2-3-200806

Lab Sample ID: 600-209485-2
Date Collected: 08/06/20 11:30
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 95.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.39**	**J**	4.19	0.559	mg/Kg	☼		08/11/20 19:27	1
Nitrate as N	**5.53**		2.10	0.263	mg/Kg	☼		08/11/20 19:27	1
Fluoride	**4.11**		2.10	0.630	mg/Kg	☼		08/11/20 19:27	1
Nitrite as N	0.311	U	2.10	0.311	mg/Kg	☼		08/11/20 19:27	1
Sulfate	**19.4**		5.24	1.00	mg/Kg	☼		08/11/20 19:27	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	0.0998	0.0227	mg/Kg		08/12/20 15:04	08/13/20 18:59	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.200	0.0429	mg/Kg		08/12/20 15:04	08/13/20 18:59	1
2,4,6-Trinitrotoluene	0.0306	U	0.0998	0.0306	mg/Kg		08/12/20 15:04	08/13/20 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*		*83 - 122*	*08/12/20 15:04*	*08/13/20 18:59*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0838	U	0.509	0.0838	ug/Kg	☼	08/12/20 11:00	08/20/20 15:02	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.226	U	0.787	0.226	ug/Kg	☼	08/17/20 14:49	08/24/20 12:56	1
Perfluorohexanesulfonic acid (PFHxS)	0.276	U	0.787	0.276	ug/Kg	☼	08/17/20 14:49	08/24/20 12:56	1
Perfluorooctanesulfonic acid (PFOS)	0.138	U	0.787	0.138	ug/Kg	☼	08/17/20 14:49	08/24/20 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*101*		*57 - 153*	*08/17/20 14:49*	*08/24/20 12:56*	*1*
13C8 PFOS	*99*		*70 - 130*	*08/17/20 14:49*	*08/24/20 12:56*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.665	U	1.77	0.665	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Arsenic	3.55	U	8.86	3.55	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Barium	**31.9**		17.7	4.43	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Beryllium	0.355	U	0.886	0.355	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Cadmium	0.213	U	0.443	0.213	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Chromium	**5.24**	**J**	8.86	3.99	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Iron	**5280**		106	53.2	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Copper	3.55	U	8.86	3.55	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Manganese	**110**		4.43	1.77	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Lead	5.54	U	13.3	5.54	mg/Kg	☼	08/13/20 11:03	08/21/20 17:58	100
Antimony	1.77	U	4.43	1.77	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Selenium	2.84	U	4.43	2.84	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Thallium	8.86	U	22.2	8.86	mg/Kg	☼	08/13/20 11:03	08/21/20 17:58	100
Zinc	17.7	U	44.3	17.7	mg/Kg	☼	08/13/20 11:03	08/14/20 19:46	20
Uranium	1.77	U	4.43	1.77	mg/Kg	☼	08/13/20 11:03	08/21/20 17:58	100

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE152-S-2-3-200806 Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 95.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00346	U	0.0164	0.00346	mg/Kg	☼	09/02/20 13:16	09/03/20 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**95.5**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	**0.0377**	**J**	0.119	0.0178	mg/Kg	☼	08/19/20 16:06	08/19/20 22:17	1
pH	**8.6**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.433	U	0.517	0.433	mg/Kg	☼	08/19/20 16:29	08/19/20 20:38	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**162**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.520**		0.112	0.124	1.00	0.0630	pCi/g	08/20/20 11:43	09/12/20 10:36	1
Radium-228	**0.286**		0.160	0.163		0.280	pCi/g	08/20/20 11:43	09/12/20 10:36	1
Combined Radium 226 + 228	**0.807**		0.195	0.205		0.280	pCi/g	08/20/20 11:43	09/12/20 10:36	1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806 Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.97	U	11.9	1.97	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Vinyl chloride	1.07	U	11.9	1.07	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Bromomethane	0.986	U *	11.9	0.986	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Trichlorofluoromethane	0.784	U	11.9	0.784	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Acrolein	7.40	U	29.7	7.40	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloroethene	1.45	U	5.94	1.45	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
trans-1,2-Dichloroethene	1.35	U	5.94	1.35	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Methyl tert-butyl ether	2.17	U	5.94	2.17	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Methylene Chloride	2.60	U	11.9	2.60	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Acrylonitrile	6.91	U	59.4	6.91	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
cis-1,2-Dichloroethene	0.986	U	5.94	0.986	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Carbon tetrachloride	1.34	U	5.94	1.34	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Benzene	0.748	U	5.94	0.748	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichloroethane	1.07	U	5.94	1.07	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Trichloroethene	1.66	U	5.94	1.66	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1,1-Trichloroethane	0.879	U	5.94	0.879	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloroethane	1.03	U	5.94	1.03	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichloropropane	0.843	U	5.94	0.843	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,4-Dioxane	73.7	U	594	73.7	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Chloroform	**1.05**	**J b**	11.9	0.784	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Bromodichloromethane	0.784	U	5.94	0.784	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1-Dichloropropene	0.772	U	5.94	0.772	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806
Date Collected: 08/06/20 12:27
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-3
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.641	U	5.94	0.641	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Toluene	1.64	U	5.94	1.64	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
trans-1,3-Dichloropropene	0.689	U	5.94	0.689	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1,2-Trichloroethane	0.867	U	5.94	0.867	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Tetrachloroethene	0.843	U	5.94	0.843	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,3-Dichloropropene, Total	0.689	U	5.94	0.689	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,2-Dibromoethane	1.21	U	5.94	1.21	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Monochlorobenzene	1.14	U	5.94	1.14	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Ethylbenzene	1.21	U	5.94	1.21	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Xylenes, Total	1.34	U	5.94	1.34	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Styrene	0.843	U	5.94	0.843	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Tribromomethane	1.63	U	5.94	1.63	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,1,2,2-Tetrachloroethane	1.03	U	5.94	1.03	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,4-Dichlorobenzene	0.784	U	5.94	0.784	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,2-Dichlorobenzene	0.950	U	5.94	0.950	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
1,2,4-Trichlorobenzene	2.34	U	5.94	2.34	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1
Dichlorodifluoromethane	1.83	U	5.94	1.83	ug/Kg	☼	08/08/20 10:45	08/08/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*61 - 130*	*08/08/20 10:45*	*08/08/20 13:40*	*1*
Dibromofluoromethane	*82*		*68 - 140*	*08/08/20 10:45*	*08/08/20 13:40*	*1*
Toluene-d8 (Surr)	*95*		*50 - 130*	*08/08/20 10:45*	*08/08/20 13:40*	*1*
4-Bromofluorobenzene	*104*		*57 - 140*	*08/08/20 10:45*	*08/08/20 13:40*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.67	U	37.1	4.67	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodiethylamine	8.00	U	37.1	8.00	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Bis(2-chloroethyl)ether	1.84	U	37.1	1.84	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Hexachloroethane	2.57	U	37.1	2.57	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosopyrrolidine	5.21	U	37.1	5.21	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Nitrobenzene	3.30	U	37.1	3.30	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Isophorone	1.11	U	37.1	1.11	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2,4-Dichlorophenol	4.31	U	37.1	4.31	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Naphthalene	1.50	U	37.1	1.50	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Hexachlorobutadiene	2.14	U	37.1	2.14	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodi-n-butylamine	18.6	U	37.1	18.6	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2-Methylnaphthalene	3.05	U	37.1	3.05	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
1-Methylnaphthalene	1.75	U	37.1	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
1,2,4,5-Tetrachlorobenzene	7.52	U	37.1	7.52	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Hexachlorocyclopentadiene	5.14	U	37.1	5.14	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2,4,6-Trichlorophenol	2.99	U	37.1	2.99	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2,4,5-Trichlorophenol	11.2	U	37.1	11.2	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dimethyl phthalate	5.45	U	74.3	5.45	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Acenaphthylene	1.11	U	37.1	1.11	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2,6-Dinitrotoluene	3.29	U	37.1	3.29	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Acenaphthene	1.61	U	37.1	1.61	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dinitrophenols	5.26	U	111	5.26	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Pentachlorobenzene	4.47	U	37.1	4.47	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
2,4-Dinitrotoluene	4.02	U	37.1	4.02	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806
Date Collected: 08/06/20 12:27
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-3
Matrix: Solid
Percent Solids: 89.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.40	U	74.3	9.40	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Fluorene	2.63	U	37.1	2.63	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dinitro-o-cresol	5.55	U	189	5.55	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
N-Nitrosodiphenylamine	2.11	U	37.1	2.11	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Diphenylhydrazine, 1,2-	1.81	U	37.1	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Hexachlorobenzene	1.69	U	37.1	1.69	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Atrazine	5.60	U	37.1	5.60	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Pentachlorophenol	4.46	U	186	4.46	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Phenanthrene	5.52	U	37.1	5.52	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Anthracene	1.43	U	37.1	1.43	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dibutylphthalate	2.89	U	74.3	2.89	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Fluoranthene	3.47	U	37.1	3.47	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzidine	10.1	U	368	10.1	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Pyrene	2.04	U	37.1	2.04	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dichlorobenzidine, 3,3'-	11.3	U	37.1	11.3	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzo[a]anthracene	1.54	U	37.1	1.54	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Di (2-ethylhexyl)phthalate	**18.2**	**J**	37.1	5.99	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Chrysene	1.14	U	37.1	1.14	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzo[b]fluoranthene	1.92	U	37.1	1.92	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzo[k]fluoranthene	1.66	U	37.1	1.66	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzo[a]pyrene	1.79	U	37.1	1.79	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Indeno[1,2,3-cd]pyrene	3.90	U	37.1	3.90	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Dibenz(a,h)anthracene	4.05	U	37.1	4.05	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Benzo[g,h,i]perylene	5.65	U	37.1	5.65	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
bis (2-chloroisopropyl) ether	9.85	U	37.1	9.85	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1
Thiophene, tetrahydro-, 1,1-dioxide	18.6	U	37.1	18.6	ug/Kg	☼	08/12/20 11:16	08/17/20 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*10 - 148*	*08/12/20 11:16*	*08/17/20 12:49*	*1*
2-Fluorobiphenyl	*74*		*38 - 130*	*08/12/20 11:16*	*08/17/20 12:49*	*1*
2-Fluorophenol	*64*		*25 - 132*	*08/12/20 11:16*	*08/17/20 12:49*	*1*
Nitrobenzene-d5	*69*		*10 - 155*	*08/12/20 11:16*	*08/17/20 12:49*	*1*
Terphenyl-d14	*105*		*53 - 134*	*08/12/20 11:16*	*08/17/20 12:49*	*1*
Phenol-d5 (Surr)	*57*		*27 - 130*	*08/12/20 11:16*	*08/17/20 12:49*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.4	U	74.0	13.4	ug/Kg	☼	08/17/20 09:48	08/18/20 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*41*		*30 - 164*	*08/17/20 09:48*	*08/18/20 20:40*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.684	U	1.17	0.684	mg/Kg	☼	08/08/20 07:14	08/08/20 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*08/08/20 07:14*	*08/08/20 12:16*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Date Collected: 08/06/20 12:27
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-3

Matrix: Solid
Percent Solids: 89.2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.62	J	8.36	2.86	mg/Kg	☼	08/10/20 15:56	08/13/20 16:23	1
C28-C36	28.7		8.36	8.36	mg/Kg	☼	08/10/20 15:56	08/13/20 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*60 - 140*	*08/10/20 15:56*	*08/13/20 16:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.90	1.47	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, beta-	1.14	U	1.90	1.14	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, delta-	0.952	U	1.90	0.952	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, alpha-	1.12	U	1.90	1.12	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Hexachlorocyclohexane, gamma-	1.04	U	1.90	1.04	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Chlordane (technical)	26.2	U	84.0	26.2	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
DDT	2.07	U	3.70	2.07	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Dieldrin	1.56	U	3.70	1.56	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Endosulfan I	1.12	U	1.90	1.12	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Endosulfan II	1.69	U	3.70	1.69	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Endosulfan sulfate	1.88	U	3.70	1.88	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Endrin	1.71	U	3.70	1.71	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Endrin aldehyde	1.75	U	3.70	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Heptachlor	1.04	U	1.90	1.04	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Heptachlor epoxide	1.31	U	1.90	1.31	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1
Toxaphene	81.9	U	190	81.9	ug/Kg	☼	08/11/20 08:51	08/11/20 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*47 - 150*	*08/11/20 08:51*	*08/11/20 22:54*	*1*
Tetrachloro-m-xylene	*71*		*50 - 143*	*08/11/20 08:51*	*08/11/20 22:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00179	U	0.0187	0.00179	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1221	0.00966	U	0.0187	0.00966	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1232	0.00750	U	0.0187	0.00750	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1254	0.00247	U	0.0187	0.00247	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	☼	08/11/20 08:51	08/12/20 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:31*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.28	J	4.49	0.599	mg/Kg	☼		08/11/20 19:48	1
Nitrate as N	6.96		2.24	0.281	mg/Kg	☼		08/11/20 19:48	1
Fluoride	4.28		2.24	0.674	mg/Kg	☼		08/11/20 19:48	1
Nitrite as N	0.333	U	2.24	0.333	mg/Kg	☼		08/11/20 19:48	1
Sulfate	35.3		5.61	1.07	mg/Kg	☼		08/11/20 19:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806

Date Collected: 08/06/20 12:27
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-3

Matrix: Solid
Percent Solids: 89.2

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	0.0209	U	0.0920	0.0209	mg/Kg		08/12/20 15:04	08/13/20 20:08	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0396	U	0.184	0.0396	mg/Kg		08/12/20 15:04	08/13/20 20:08	1
2,4,6-Trinitrotoluene	0.0282	U	0.0920	0.0282	mg/Kg		08/12/20 15:04	08/13/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 20:08*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.111**	**J**	0.525	0.0866	ug/Kg	☼	08/12/20 11:00	08/20/20 15:07	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.249	U	0.866	0.249	ug/Kg	☼	08/17/20 14:49	08/24/20 13:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.303	U	0.866	0.303	ug/Kg	☼	08/17/20 14:49	08/24/20 13:05	1
Perfluorooctanesulfonic acid (PFOS)	0.152	U	0.866	0.152	ug/Kg	☼	08/17/20 14:49	08/24/20 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 13:05*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 13:05*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.827	U	2.20	0.827	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Arsenic	4.41	U	11.0	4.41	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Barium	**425**		22.0	5.51	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Beryllium	0.441	U	1.10	0.441	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Cadmium	0.265	U	0.551	0.265	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Chromium	4.96	U	11.0	4.96	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Iron	**1820**		132	66.1	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Copper	4.41	U	11.0	4.41	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Manganese	**24.2**		5.51	2.20	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Lead	1.38	U	3.31	1.38	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Antimony	2.20	U	5.51	2.20	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Selenium	3.53	U	5.51	3.53	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Thallium	2.20	U	5.51	2.20	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Zinc	22.0	U	55.1	22.0	mg/Kg	☼	08/13/20 11:03	08/14/20 19:55	20
Uranium	0.441	U	1.10	0.441	mg/Kg	☼	08/13/20 11:03	08/21/20 18:00	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00401	U	0.0191	0.00401	mg/Kg	☼	09/02/20 13:16	09/03/20 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**89.2**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	☼	08/19/20 16:06	08/19/20 22:18	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.467	U	0.557	0.467	mg/Kg	☼	08/19/20 16:29	08/19/20 20:43	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Client Sample ID: CELL17-SQUARE92-S-2-3-200806
Date Collected: 08/06/20 12:27
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209485-3
Matrix: Solid
Percent Solids: 89.2

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	137		10.0	10.0	mg/L			08/17/20 11:57	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	0.857		0.190	0.209	1.00	0.133	pCi/g	08/20/20 11:43	09/12/20 10:31	1
Radium-228	0.169	U	0.308	0.308		0.375	pCi/g	08/20/20 11:43	09/12/20 10:31	1
Combined Radium 226 + 228	1.03		0.362	0.372		0.375	pCi/g	08/20/20 11:43	09/12/20 10:31	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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.
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
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
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.

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)

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	82	82	94	102
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	88	85	96	106
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	85	82	95	104
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	57	86	77	82	101	74
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	50	83	81	81	102	80
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	63	74	64	69	105	57
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	32
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	70
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	41
LCS 400-500496/2-A	Lab Control Sample	94
MB 400-500496/1-A	Method Blank	86

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Surrogate Legend
TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	88
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	94
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	99
LCS 600-300708/1-A	Lab Control Sample	96
LCSD 600-300708/2-A	Lab Control Sample Dup	96
MB 600-300708/3-A	Method Blank	95

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

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 (60-140)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	72
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	123
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	89
LCS 600-300806/2-A	Lab Control Sample	131
LCSD 600-300806/3-A	Lab Control Sample Dup	131
MB 600-300806/1-A	Method Blank	125

Surrogate Legend
OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	69	70
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	102	101
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	76	71
LCS 600-300862/2-A	Lab Control Sample	76	74
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	75	101
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	94	127
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	76	103
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	99
600-209485-1 MS	CELL17-SQUARE197-S-2-3-20 0806	102
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-20 0806	103
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	103
600-209485-2 DU	CELL17-SQUARE152-S-2-3-20 0806	102
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-20 0806	102
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	102
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209485-1	CELL17-SQUARE197-S-2-3-20(	102	96
600-209485-2	CELL17-SQUARE152-S-2-3-20 0806	101	99
600-209485-3	CELL17-SQUARE92-S-2-3-200 806	102	94
DLCK 280-500633/14	Lab Control Sample	108	91
LCS 280-505864/2-A	Lab Control Sample	101	98
MB 280-505864/1-A	Method Blank	104	94

Surrogate Legend

C8PFOA = 13C8 PFOA

Surrogate Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

C8PFOS = 13C8 PFOS

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*61 - 130*		*08/08/20 09:03*	*1*
Dibromofluoromethane	*87*		*68 - 140*		*08/08/20 09:03*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*		*08/08/20 09:03*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*		*08/08/20 09:03*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-300707/3
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Acrolein	250	213.3		ug/Kg		85	10 - 150
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Benzene	50.0	45.50		ug/Kg		91	70 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
1,3-Dichloropropene, Total	100	97.99		ug/Kg		98	70 - 130
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*95*		*50 - 130*
4-Bromofluorobenzene	*110*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-300707/4
Matrix: Solid
Analysis Batch: 300707

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
Chloromethane			50.0	57.80		ug/Kg		116	44 - 141	16	30
Vinyl chloride			50.0	48.37		ug/Kg		97	40 - 148	16	30
Bromomethane			50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Trichlorofluoromethane			50.0	53.31		ug/Kg		107	53 - 134	8	30
Acrolein			250	167.3		ug/Kg		67	10 - 150	24	30
1,1-Dichloroethene			50.0	39.90		ug/Kg		80	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	43.12		ug/Kg		86	69 - 130	10	30
Methyl tert-butyl ether			50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride			50.0	40.83		ug/Kg		82	61 - 150	13	30
Acrylonitrile			500	382.6		ug/Kg		77	43 - 150	22	30
cis-1,2-Dichloroethene			50.0	43.72		ug/Kg		87	70 - 130	0	30
Carbon tetrachloride			50.0	48.66		ug/Kg		97	58 - 130	4	30
Benzene			50.0	43.98		ug/Kg		88	70 - 131	3	30
1,2-Dichloroethane			50.0	51.06		ug/Kg		102	58 - 137	5	30
Trichloroethene			50.0	40.15		ug/Kg		80	63 - 135	4	30
1,1,1-Trichloroethane			50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1-Dichloroethane			50.0	48.37		ug/Kg		97	63 - 140	6	30
1,2-Dichloropropane			50.0	45.74		ug/Kg		91	70 - 130	3	30
1,4-Dioxane			1000	744.2		ug/Kg		74	31 - 150	12	30
Chloroform			50.0	47.93		ug/Kg		96	69 - 130	4	30
Bromodichloromethane			50.0	47.68		ug/Kg		95	67 - 138	5	30
1,1-Dichloropropene			50.0	47.28		ug/Kg		95	67 - 130	0	30
cis-1,3-Dichloropropene			50.0	45.41		ug/Kg		91	65 - 130	7	30
Toluene			50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	46.31		ug/Kg		93	70 - 130	6	30
1,1,2-Trichloroethane			50.0	41.82		ug/Kg		84	67 - 134	8	30
Tetrachloroethene			50.0	41.84		ug/Kg		84	43 - 143	3	30
1,3-Dichloropropene, Total			100	91.72		ug/Kg		92	70 - 130	7	30
1,2-Dibromoethane			50.0	40.36		ug/Kg		81	65 - 136	7	30
Monochlorobenzene			50.0	43.22		ug/Kg		86	63 - 131	5	30
Ethylbenzene			50.0	42.25		ug/Kg		85	66 - 130	5	30
Xylenes, Total			100	87.88		ug/Kg		88	63 - 130	4	30
Styrene			50.0	42.79		ug/Kg		86	65 - 133	3	30
Tribromomethane			50.0	44.68		ug/Kg		89	43 - 150	8	30
1,1,2,2-Tetrachloroethane			50.0	41.86		ug/Kg		84	61 - 138	13	30
1,4-Dichlorobenzene			50.0	46.96		ug/Kg		94	65 - 131	5	30
1,2-Dichlorobenzene			50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	45.58		ug/Kg		91	53 - 136	8	30
Dichlorodifluoromethane			50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*91*		*50 - 130*
4-Bromofluorobenzene	*107*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839		ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*98*		*38 - 130*
2-Fluorophenol	*91*		*25 - 132*
Nitrobenzene-d5	*95*		*10 - 155*
Terphenyl-d14	*112*		*53 - 134*
Phenol-d5 (Surr)	*93*		*27 - 130*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/17/20 09:48	08/18/20 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*86*		*30 - 164*	*08/17/20 09:48*	*08/18/20 13:08*	*1*

Lab Sample ID: LCS 400-500496/2-A
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Prometon	333	320.1		ug/Kg		96	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*94*		*30 - 164*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		08/08/20 07:14	08/08/20 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/08/20 07:14*	*08/08/20 09:47*	*1*

Lab Sample ID: LCS 600-300708/1-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.069		mg/Kg		101	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 600-300708/1-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300708

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130

Lab Sample ID: LCSD 600-300708/2-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300708

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.04	5.417		mg/Kg		108	70 - 130	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	96		70 - 130

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140	08/10/20 15:56	08/13/20 11:51	1

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	131		60 - 140

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	131		60 - 140

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*47 - 150*	*08/11/20 08:51*	*08/11/20 19:37*	*1*
Tetrachloro-m-xylene	*116*		*50 - 143*	*08/11/20 08:51*	*08/11/20 19:37*	*1*

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150
Heptachlor epoxide	16.6	17.12		ug/Kg		103	42 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-			16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-			16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-			16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-			16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT			16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin			16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I			16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II			16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate			16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*
DCB Decachlorobiphenyl	*165*	*X*	*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*

Lab Sample ID: LCS 600-300862/4-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.166	0.1532		mg/Kg		92	42 - 130		
PCB-1260			0.166	0.1225		mg/Kg		74	59 - 135		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 600-300862/4-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*85*		*10 - 150*
DCB Decachlorobiphenyl	*104*		*10 - 150*

Lab Sample ID: LCSD 600-300862/5-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260			0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*78*		*10 - 150*
DCB Decachlorobiphenyl	*101*		*10 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			100	98.87		mg/Kg		99	90 - 110		
Nitrite as N			100	101.4		mg/Kg		101	90 - 110		

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			100	91.93		mg/Kg		92	90 - 110		
Nitrite as N			100	100.5		mg/Kg		100	90 - 110		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 16:41*	*1*

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*106*		*83 - 122*

Lab Sample ID: 600-209485-1 MS
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 505436

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	0.960	0.9472		mg/Kg		99	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 600-209485-1 MS — **Client Sample ID: CELL17-SQUARE197-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 505596 — **Prep Batch: 505436**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.960	0.8479		mg/Kg		88	80 - 124
2,4,6-Trinitrotoluene	0.0306	U	0.960	1.021		mg/Kg		106	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 122*

Lab Sample ID: 600-209485-1 MSD — **Client Sample ID: CELL17-SQUARE197-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 505596 — **Prep Batch: 505436**

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	0.954	0.9364		mg/Kg		98	80 - 120	1	30
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.954	0.8621		mg/Kg		90	80 - 124	2	30
2,4,6-Trinitrotoluene	0.0306	U	0.954	1.022		mg/Kg		107	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*103*		*83 - 122*

Lab Sample ID: 600-209485-2 DU — **Client Sample ID: CELL17-SQUARE152-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 505596 — **Prep Batch: 505436**

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	0.0227	U	0.162	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.307	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0306	U	0.219	U	mg/Kg		NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 122*

Lab Sample ID: 600-209485-2 TRL — **Client Sample ID: CELL17-SQUARE152-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 505596 — **Prep Batch: 505436**

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	0.0227	U	0.0217	U	mg/Kg		NC	20
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.0411	U	mg/Kg		NC	20
2,4,6-Trinitrotoluene	0.0306	U	0.0293	U	mg/Kg		NC	20

Surrogate	*TRL %Recovery*	*TRL Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 122*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: 600-209485-1 MS
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.759		0.535	1.104	N1	ug/Kg	☼	64	70 - 130

Lab Sample ID: 600-209485-1 MSD
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	0.759		0.537	1.155		ug/Kg	☼	74	70 - 130	4	15

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-479336/1-A ^2
Matrix: Solid
Analysis Batch: 480286

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/21/20 17:53	2

Lab Sample ID: LCS 160-479336/2-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	986	1028		mg/Kg		104	32 - 167
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 600-209485-1 DU — **Client Sample ID: CELL17-SQUARE197-S-2-3-200806**
Matrix: Solid — **Prep Type: 7 Day Leach**
Analysis Batch: 301367

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	117		113.0		mg/L		3	10

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301619/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301634 — **Prep Batch: 301619**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/19/20 16:06	08/19/20 22:11	1

Lab Sample ID: LCS 600-301619/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301634 — **Prep Batch: 301619**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1093		mg/Kg		109	90 - 110

Lab Sample ID: 600-209485-1 MS — **Client Sample ID: CELL17-SQUARE197-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301634 — **Prep Batch: 301619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0188	U	1.28	0.1525	N1	mg/Kg	☼	12	90 - 110

Lab Sample ID: 600-209485-1 MSD — **Client Sample ID: CELL17-SQUARE197-S-2-3-200806**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301634 — **Prep Batch: 301619**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0188	U	1.28	0.2096	N1 N2	mg/Kg	☼	16	90 - 110	32	20

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301633 — **Prep Batch: 301626**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301633 — **Prep Batch: 301626**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A
Matrix: Solid
Analysis Batch: 482295

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479981

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

Lab Sample ID: LCS 160-479981/2-A
Matrix: Solid
Analysis Batch: 482368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479981

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	94.70		9.93		0.973	pCi/g	98	87 - 116
Cesium-137	26.9	25.80		2.74		0.148	pCi/g	96	87 - 120
Cobalt-60	9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8260B	300714
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	5030B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3546	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3546	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8082	300862
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8082	300862

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

GC Semi VOA (Continued)

Analysis Batch: 300977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	300.0	300916
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Soluble	Solid	DI Leach	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Soluble	Solid	DI Leach	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Increment, prep	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

HPLC/IC

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505294

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2 DU	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209485-2 TRL	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6860	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

LCMS

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	7471B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	7471B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	3050B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	3050B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Metals

Analysis Batch: 480286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	6020	479336
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	2540B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	2540B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	
600-209485-1 DU	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209485-2	CELL17-SQUARE152-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209485-3	CELL17-SQUARE92-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322
600-209485-1 DU	CELL17-SQUARE197-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9012B	
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9066	301626
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9066	301626
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9066	301626

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

General Chemistry (Continued)

Analysis Batch: 301633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

Analysis Batch: 301634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9012B	301619
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	301619
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	301619
600-209485-1 MS	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209485-1 MSD	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9012B	301619

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	9045D	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	9045D	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209485-1	CELL17-SQUARE197-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209485-2	CELL17-SQUARE152-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
600-209485-3	CELL17-SQUARE92-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Lab Sample ID: 600-209485-1
Date Collected: 08/06/20 10:47
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 17:27	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.05 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			335.1 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482294	09/12/20 10:33	SCB	TAL SL

Client Sample ID: CELL17-SQUARE197-S-2-3-200806
Lab Sample ID: 600-209485-1
Date Collected: 08/06/20 10:47
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 12:53	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:00	TTD	TAL HOU
Total/NA	Prep	3546			15.09 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 19:50	PP1	TAL PEN
Total/NA	Prep	5030B			9.92 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:27	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 15:16	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:05	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 15:41	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:07	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:07	W1N	TAL HOU
Total/NA	Prep	6860			10.19 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 14:47	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.77 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:47	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5130 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:44	FLC	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:38	DCL	TAL HOU
Total/NA	Prep	9012B			0.532 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:15	AML	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE197-S-2-3-200806 Lab Sample ID: 600-209485-1

Date Collected: 08/06/20 10:47 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:37	AML	TAL HOU

Client Sample ID: CELL17-SQUARE152-S-2-3-200806 Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30 **Matrix: Solid**
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.02 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 18:59	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.10 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			368.5 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482296	09/12/20 10:36	SCB	TAL SL

Client Sample ID: CELL17-SQUARE152-S-2-3-200806 Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 95.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.83 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 13:16	WS1	TAL HOU
Total/NA	Prep	3546			15.02 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:25	TTD	TAL HOU
Total/NA	Prep	3546			15.42 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 20:15	PP1	TAL PEN
Total/NA	Prep	5030B			9.59 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 11:52	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 15:50	RJV	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:30	JAL	TAL HOU
Total/NA	Prep	3546			15.03 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:06	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:27	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:27	W1N	TAL HOU
Total/NA	Prep	6860			10.30 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:02	TMC	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE152-S-2-3-200806 Lab Sample ID: 600-209485-2

Date Collected: 08/06/20 11:30 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 95.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.644 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 12:56	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5909 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:46	FLC	TAL SL
Total/NA	Prep	3050B			0.5909 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		100			480286	08/21/20 17:58	FLC	TAL SL
Total/NA	Prep	7471B			0.65 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:40	DCL	TAL HOU
Total/NA	Prep	9012B			0.530 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:17	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.507 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:38	AML	TAL HOU

Client Sample ID: CELL17-SQUARE92-S-2-3-200806 Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27 **Matrix: Solid**
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.87 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 20:08	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.06 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			320.4 g	1.0 g	479981	08/20/20 11:43	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 10:31	SCB	TAL SL

Client Sample ID: CELL17-SQUARE92-S-2-3-200806 Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.72 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 13:40	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 12:49	TTD	TAL HOU
Total/NA	Prep	3546			15.01 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 20:40	PP1	TAL PEN
Total/NA	Prep	5030B			9.61 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 12:16	WS1	TAL HOU
Total/NA	Prep	3546			10.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 16:23	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL17-SQUARE92-S-2-3-200806
Lab Sample ID: 600-209485-3

Date Collected: 08/06/20 12:27
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 22:54	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:31	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 19:48	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 19:48	W1N	TAL HOU
Total/NA	Prep	6860			10.67 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:07	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.36 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:05	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5087 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:55	FLC	TAL SL
Total/NA	Prep	3050B			0.5087 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			480286	08/21/20 18:00	FLC	TAL SL
Total/NA	Prep	7471B			0.60 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:42	DCL	TAL HOU
Total/NA	Prep	9012B			0.520 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:18	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:43	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	08-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209485-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209485-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:

Address: 630 Plaza Drive Suite 100	Due Date Requested: —
City: Highlands Ranch	TAT Requested (days): Std
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 #: 60012538
Site: Jal Landfarm	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 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:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell 17-Square 197-S-2-3-200806	8/06/20	1047	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 17-Square 152-S-2-3-200806	8/06/20	1130	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 17-Square 92-S-2-3-200806	8/06/20	1227	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp Blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/06/20 JS

600-209485 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: 08/06/20 1700	Company: Arcadis	Received by:	Date/Time: 8/7/20 920	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: 01/16/2019

Loc: 600
209485

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Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 AUG 7 3:20

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: YR CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3401	Y / N	Y / N	3.1	680	+0.1	3.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/7/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/7/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209485-1
Address: 13715 Rider Trail North,	Due Date Requested: 6/19/2020			
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 #: 60012538			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL17-SQUARE197-S-2-3-200806 (600-209485-1)	8/6/20	10:47 Central		Solid			X	X	X	2	2-3jars rec'd @ETASTL. JB 8/12/20
CELL17-SQUARE152-S-2-3-200806 (600-209485-2)	8/6/20	11:30 Central		Solid			X	X	X	3	
CELL17-SQUARE92-S-2-3-200806 (600-209485-3)	8/6/20	12:27 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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 Jones	8/10/20 13:00	ETA	FE		
FE					
			Jan Bz	8/11/20 09:18	ETASTL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45923.1
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 #: 600-209485-1
Address: 4955 Yarrow Street.	Due Date Requested: 8/25/2020			
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 #: 60012538			
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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL17-SQUARE197-S-2-3-200806 (600-209485-1)	8/6/20	10:47 Central		Solid			X	X	X	3	
CELL17-SQUARE152-S-2-3-200806 (600-209485-2)	8/6/20	11:30 Central		Solid			X	X	X	3	
CELL17-SQUARE92-S-2-3-200806 (600-209485-3)	8/6/20	12:27 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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 Jones	8/10/20 13:00	EHA	D Stan	8-11-20 0915	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:
		5.6, 1.9, IR10, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45925.1
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 #: 600-209485-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/25/2020			
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 #: 60012538			
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-SQUARE152-S-2-3-200806 (600-209485-2)	8/6/20	11:30 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
	8/10/20 13:00	ETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-12-20 0926	Company: TAPEN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR-7

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45924.1
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 #: 600-209485-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/25/2020			
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 #: 60012538			
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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CELL17-SQUARE197-S-2-3-200806 (600-209485-1)	8/6/20	10:47 Central		Solid			X	1	
CELL17-SQUARE152-S-2-3-200806 (600-209485-2)	8/6/20	11:30 Central		Solid			X	1	
CELL17-SQUARE92-S-2-3-200806 (600-209485-3)	8/6/20	12:27 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Lowe	8/10/20 13:00	ETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8-12-20 0926	Company TA-PEN

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR-7

Ver: 01/16/2019



Do Not Lift Using This

SHIPPING DEPT
TESTAMERICA HOUSTON LAB
6310 ROTHWAY ST.
HOUSTON, TX 77040
UNITED STATES US

ACTWGT: 1.00 LB MAN
CAD: 0850228/CAFE3313

BILL RECIPIENT

Part # 159469-434 RIT2 EXP 04/21

TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
3355 MCLEMORE DRIVE
PENSACOLA FL 32514
(850) 474-1001
PO: YES

AW 6.5°C
IR7

REF: 8600-78535

FedEx Express

TRK# 0201 1684 2643 6046

TUE - 11 AUG 10:30A
PRIORITY OVERNIGHT

XH PNSA

32514
FL-US BFM



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TestAmerica

1073430

574

1 10:30 A

6046 08.12

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209485-1

Login Number: 209485 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	3.2
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209485-1

Login Number: 209485 **List Source: Eurofins TestAmerica, Denver**
List Number: 2 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209485-1

Login Number: 209485
List Number: 3
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209485-1

Login Number: 209485
List Number: 4
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/12/20 05:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209486-1
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:
9/21/2020 4:27:04 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

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209486-1

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Job ID: 600-209486-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209486-1

Comments
No additional comments.

Receipt
The samples were received on 8/7/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 600-300707 recovered outside control limits for the following analytes: Bromomethane.

Method 8260B: The method blank for analytical batch 600-300707 contained Chloroform 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.

GC/MS Semi VOA
Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-500496 and analytical batch 400-500677 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 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Methods 8081A, 8081B: The continuing calibration verification (CCV) associated with batch 600-300913 recovered above the upper control limit for 4,4-DDD(25.2%),4,4-DDE(21.2%), and 4,4-DDT(17.7%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-300913/5).

Method 8082: The surrogate recovery for the blank associated with preparation batch 600-300862 and analytical batch 600-300977 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.

RAD
Methods 901.1, GA-01-R: Gamma Prep Batch 160-479639
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

Released to Imaging: 5/25/2022 8:55:33 AM

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2), CELL19-SQUARE62-S-2-3-200806 (600-209486-3) and (600-209486-E-1-C DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020: analytical batch 160-479582
The internal standard was outside QC limits in the CCV and/or the CCB. All analytes were within acceptable limits, showing that there was no bias. Original results will be reported. (CCB 160-479582/125), (CCB 160-479582/138), (CCV 160-479582/124), (CCV 160-479582/137) and (CCVL 160-479582/136)

Method 6020: preparation batch 160-479336 and analytical batch 160-479582
The following samples were diluted due to the abundance of non-target analytes: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). Elevated reporting limits (RLs) are provided.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-479336 and analytical batch 160-479582 were outside control limits for Barium and Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209483-C-1-B MS ^20) and (600-209483-C-1-C MSD ^20)

Method 6020: preparation batch 160-479336 and analytical batch 160-481698
The following sample(s) was diluted due to the nature of the sample matrix. Samples when run at a lesser dilution caused internal standard failure. : CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). Elevated reporting limits (RLs) are provided.

Method 6020: analytical batch 160-479960
The internal standard was outside QC limits in the CCV/CCB . All analytes were within acceptable limits, showing that there was no bias, with an exception of one CCV being outside the upper range in Beryllium. Only the MB was associated with this outage, and was within

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Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

QC limits. Original results will be reported. (CCB 160-479960/76), (CCB 160-479960/89), (CCV 160-479960/75) and (CCV 160-479960/88)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 420.4, 9066: The method blank for preparation batch 600-301626 and analytical batch 600-301633 contained Phenols, Total 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.

Industrial Hygiene
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3)

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL18-SQUARE154-S-2-3-200806 (600-209486-2)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL18-SQUARE176-S-2-3-200806 (600-209486-1), CELL18-SQUARE154-S-2-3-200806 (600-209486-2) and CELL19-SQUARE62-S-2-3-200806 (600-209486-3). The reporting limits (RLs) have been adjusted proportionately.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Job ID: 600-209486-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

Method 3546: The following sample required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: CELL18-SQUARE154-S-2-3-200806 (600-209486-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, 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: 600-209486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Solid	08/06/20 14:35	08/07/20 09:20	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Solid	08/06/20 15:05	08/07/20 09:20	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Solid	08/06/20 15:39	08/07/20 09:20	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Date Collected: 08/06/20 14:35
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-1
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.93	U	11.6	1.93	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Vinyl chloride	1.04	U	11.6	1.04	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Bromomethane	0.964	U *	11.6	0.964	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Trichlorofluoromethane	0.766	U	11.6	0.766	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Acrolein	7.23	U	29.0	7.23	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloroethene	1.42	U	5.80	1.42	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
trans-1,2-Dichloroethene	1.32	U	5.80	1.32	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Methyl tert-butyl ether	2.12	U	5.80	2.12	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Methylene Chloride	2.54	U	11.6	2.54	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Acrylonitrile	6.76	U	58.0	6.76	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
cis-1,2-Dichloroethene	0.964	U	5.80	0.964	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Carbon tetrachloride	1.31	U	5.80	1.31	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Benzene	0.731	U	5.80	0.731	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichloroethane	1.04	U	5.80	1.04	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Trichloroethene	1.63	U	5.80	1.63	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1,1-Trichloroethane	0.859	U	5.80	0.859	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloroethane	1.01	U	5.80	1.01	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichloropropane	0.824	U	5.80	0.824	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,4-Dioxane	72.1	U	580	72.1	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Chloroform	**1.00**	**J b**	11.6	0.766	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Bromodichloromethane	0.766	U	5.80	0.766	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1-Dichloropropene	0.755	U	5.80	0.755	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
cis-1,3-Dichloropropene	0.627	U	5.80	0.627	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Toluene	1.60	U	5.80	1.60	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
trans-1,3-Dichloropropene	0.673	U	5.80	0.673	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1,2-Trichloroethane	0.847	U	5.80	0.847	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Tetrachloroethene	0.824	U	5.80	0.824	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,3-Dichloropropene, Total	0.673	U	5.80	0.673	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,2-Dibromoethane	1.18	U	5.80	1.18	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Monochlorobenzene	1.11	U	5.80	1.11	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Ethylbenzene	1.18	U	5.80	1.18	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Xylenes, Total	1.31	U	5.80	1.31	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Styrene	0.824	U	5.80	0.824	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Tribromomethane	1.59	U	5.80	1.59	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,1,2,2-Tetrachloroethane	1.01	U	5.80	1.01	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,4-Dichlorobenzene	0.766	U	5.80	0.766	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,2-Dichlorobenzene	0.929	U	5.80	0.929	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
1,2,4-Trichlorobenzene	2.29	U	5.80	2.29	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1
Dichlorodifluoromethane	1.79	U	5.80	1.79	ug/Kg	☼	08/08/20 10:45	08/08/20 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*	*08/08/20 10:45*	*08/08/20 14:03*	*1*
Dibromofluoromethane	*84*		*68 - 140*	*08/08/20 10:45*	*08/08/20 14:03*	*1*
Toluene-d8 (Surr)	*98*		*50 - 130*	*08/08/20 10:45*	*08/08/20 14:03*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*	*08/08/20 10:45*	*08/08/20 14:03*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.88	U	38.8	4.88	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodiethylamine	8.36	U	38.8	8.36	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Date Collected: 08/06/20 14:35
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-1
Matrix: Solid
Percent Solids: 85.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.92	U	38.8	1.92	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Hexachloroethane	2.69	U	38.8	2.69	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosopyrrolidine	5.44	U	38.8	5.44	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Nitrobenzene	3.45	U	38.8	3.45	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Isophorone	1.16	U	38.8	1.16	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2,4-Dichlorophenol	4.51	U	38.8	4.51	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Naphthalene	1.57	U	38.8	1.57	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Hexachlorobutadiene	2.24	U	38.8	2.24	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodi-n-butylamine	19.4	U	38.8	19.4	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2-Methylnaphthalene	3.19	U	38.8	3.19	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
1-Methylnaphthalene	1.83	U	38.8	1.83	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
1,2,4,5-Tetrachlorobenzene	7.86	U	38.8	7.86	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Hexachlorocyclopentadiene	5.37	U	38.8	5.37	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2,4,6-Trichlorophenol	3.12	U	38.8	3.12	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2,4,5-Trichlorophenol	11.7	U	38.8	11.7	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dimethyl phthalate	**52.9**	**J**	77.7	5.70	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Acenaphthylene	1.16	U	38.8	1.16	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2,6-Dinitrotoluene	3.44	U	38.8	3.44	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Acenaphthene	1.68	U	38.8	1.68	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dinitrophenols	5.50	U	116	5.50	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Pentachlorobenzene	4.67	U	38.8	4.67	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
2,4-Dinitrotoluene	4.20	U	38.8	4.20	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Diethyl phthalate	9.82	U	77.7	9.82	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Fluorene	2.75	U	38.8	2.75	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dinitro-o-cresol	5.80	U	198	5.80	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
N-Nitrosodiphenylamine	2.20	U	38.8	2.20	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Diphenylhydrazine, 1,2-	1.89	U	38.8	1.89	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Hexachlorobenzene	1.77	U	38.8	1.77	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Atrazine	5.85	U	38.8	5.85	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Pentachlorophenol	4.66	U	195	4.66	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Phenanthrene	5.77	U	38.8	5.77	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Anthracene	1.49	U	38.8	1.49	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dibutylphthalate	3.02	U	77.7	3.02	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Fluoranthene	3.62	U	38.8	3.62	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzidine	10.5	U	384	10.5	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Pyrene	2.13	U	38.8	2.13	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dichlorobenzidine, 3,3'-	11.8	U	38.8	11.8	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzo[a]anthracene	1.61	U	38.8	1.61	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Di (2-ethylhexyl)phthalate	**19.0**	**J**	38.8	6.25	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Chrysene	1.19	U	38.8	1.19	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzo[b]fluoranthene	2.00	U	38.8	2.00	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzo[k]fluoranthene	1.74	U	38.8	1.74	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzo[a]pyrene	1.88	U	38.8	1.88	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Indeno[1,2,3-cd]pyrene	4.08	U	38.8	4.08	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Dibenz(a,h)anthracene	4.23	U	38.8	4.23	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Benzo[g,h,i]perylene	5.91	U	38.8	5.91	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
bis (2-chloroisopropyl) ether	10.3	U	38.8	10.3	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1
Thiophene, tetrahydro-, 1,1-dioxide	19.4	U	38.8	19.4	ug/Kg	☼	08/12/20 11:16	08/17/20 13:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Date Collected: 08/06/20 14:35
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-1

Matrix: Solid
Percent Solids: 85.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*48*		*10 - 148*	*08/12/20 11:16*	*08/17/20 13:13*	*1*
2-Fluorobiphenyl	*86*		*38 - 130*	*08/12/20 11:16*	*08/17/20 13:13*	*1*
2-Fluorophenol	*79*		*25 - 132*	*08/12/20 11:16*	*08/17/20 13:13*	*1*
Nitrobenzene-d5	*84*		*10 - 155*	*08/12/20 11:16*	*08/17/20 13:13*	*1*
Terphenyl-d14	*103*		*53 - 134*	*08/12/20 11:16*	*08/17/20 13:13*	*1*
Phenol-d5 (Surr)	*75*		*27 - 130*	*08/12/20 11:16*	*08/17/20 13:13*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	14.0	U	77.0	14.0	ug/Kg	☼	08/17/20 09:48	08/18/20 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*64*		*30 - 164*	*08/17/20 09:48*	*08/18/20 16:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.719	U	1.23	0.719	mg/Kg	☼	08/08/20 07:14	08/08/20 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*82*		*70 - 130*	*08/08/20 07:14*	*08/08/20 12:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.79	U	28.6	9.79	mg/Kg	☼	08/10/20 15:56	08/13/20 16:57	1
C28-C36	28.6	U	28.6	28.6	mg/Kg	☼	08/10/20 15:56	08/13/20 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*98*		*60 - 140*	*08/10/20 15:56*	*08/13/20 16:57*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.52	U	1.97	1.52	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, beta-	1.18	U	1.97	1.18	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, delta-	0.987	U	1.97	0.987	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, alpha-	1.16	U	1.97	1.16	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Hexachlorocyclohexane, gamma-	1.08	U	1.97	1.08	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Chlordane (technical)	27.2	U	87.1	27.2	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
DDT	2.15	U	3.83	2.15	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Dieldrin	1.61	U	3.83	1.61	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan I	1.16	U	1.97	1.16	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan II	1.75	U	3.83	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endosulfan sulfate	1.95	U	3.83	1.95	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endrin	1.78	U	3.83	1.78	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Endrin aldehyde	1.81	U	3.83	1.81	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Heptachlor	1.08	U	1.97	1.08	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Heptachlor epoxide	1.36	U	1.97	1.36	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1
Toxaphene	84.9	U	197	84.9	ug/Kg	☼	08/11/20 08:51	08/11/20 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*47 - 150*	*08/11/20 08:51*	*08/11/20 23:19*	*1*
Tetrachloro-m-xylene	*90*		*50 - 143*	*08/11/20 08:51*	*08/11/20 23:19*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE176-S-2-3-200806

Date Collected: 08/06/20 14:35
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-1

Matrix: Solid
Percent Solids: 85.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00186	U	0.0194	0.00186	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1221	0.0100	U	0.0194	0.0100	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1232	0.00778	U	0.0194	0.00778	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1242	0.00144	U	0.0194	0.00144	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1248	0.00289	U	0.0194	0.00289	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1254	0.00257	U	0.0194	0.00257	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1
PCB-1260	0.0157	U	0.0194	0.0157	mg/Kg	☼	08/11/20 08:51	08/12/20 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:57*	*1*
DCB Decachlorobiphenyl	*111*		*10 - 150*	*08/11/20 08:51*	*08/12/20 16:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.72**	**J**	4.67	0.624	mg/Kg	☼		08/11/20 20:49	1
Nitrate as N	**6.69**		2.34	0.293	mg/Kg	☼		08/11/20 20:49	1
Fluoride	**9.69**		2.34	0.702	mg/Kg	☼		08/11/20 20:49	1
Nitrite as N	0.347	U	2.34	0.347	mg/Kg	☼		08/11/20 20:49	1
Sulfate	**62.7**		5.84	1.12	mg/Kg	☼		08/11/20 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	0.0223	U	0.0984	0.0223	mg/Kg		08/12/20 15:04	08/13/20 20:54	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0423	U	0.197	0.0423	mg/Kg		08/12/20 15:04	08/13/20 20:54	1
2,4,6-Trinitrotoluene	0.0302	U	0.0984	0.0302	mg/Kg		08/12/20 15:04	08/13/20 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*105*		*83 - 122*	*08/12/20 15:04*	*08/13/20 20:54*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0928	U	0.563	0.0928	ug/Kg	☼	08/12/20 11:00	08/20/20 15:13	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.851	0.245	ug/Kg	☼	08/17/20 14:49	08/24/20 13:23	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.851	0.298	ug/Kg	☼	08/17/20 14:49	08/24/20 13:23	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.851	0.149	ug/Kg	☼	08/17/20 14:49	08/24/20 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 13:23*	*1*
13C8 PFOS	*95*		*70 - 130*	*08/17/20 14:49*	*08/24/20 13:23*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.825	U	2.20	0.825	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Arsenic	4.40	U	11.0	4.40	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Barium	**893**		22.0	5.50	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Beryllium	1.10	U	2.75	1.10	mg/Kg	☼	08/13/20 11:03	09/04/20 17:23	50
Cadmium	0.264	U	0.550	0.264	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Chromium	**5.60**	**J**	11.0	4.95	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE176-S-2-3-200806 Lab Sample ID: 600-209486-1

Date Collected: 08/06/20 14:35 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 85.6**

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4970**		132	66.0	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Copper	4.40	U	11.0	4.40	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Manganese	**34.6**		5.50	2.20	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Lead	3.44	U	8.25	3.44	mg/Kg	☼	08/13/20 11:03	09/04/20 17:23	50
Antimony	2.20	U	5.50	2.20	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Selenium	3.52	U	5.50	3.52	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Thallium	5.50	U	13.8	5.50	mg/Kg	☼	08/13/20 11:03	09/04/20 17:23	50
Zinc	22.0	U	55.0	22.0	mg/Kg	☼	08/13/20 11:03	08/14/20 19:58	20
Uranium	1.10	U	2.75	1.10	mg/Kg	☼	08/13/20 11:03	09/04/20 17:23	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00945**	**J**	0.0195	0.00411	mg/Kg	☼	09/02/20 13:16	09/03/20 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.4**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**85.6**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0196	U	0.130	0.0196	mg/Kg	☼	08/19/20 16:06	08/19/20 22:20	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	**1.08**	**b**	0.583	0.489	mg/Kg	☼	08/19/20 16:29	08/19/20 20:44	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			08/17/20 11:57	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	**0.763**		0.137	0.158	1.00	0.0967	pCi/g	08/17/20 17:22	09/08/20 13:57	1
Radium-228	**0.391**		0.111	0.118		0.0687	pCi/g	08/17/20 17:22	09/08/20 13:57	1
Combined Radium 226 + 228	**1.15**		0.176	0.197		0.0967	pCi/g	08/17/20 17:22	09/08/20 13:57	1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806 Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 79.1**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.20	U	13.3	2.20	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Vinyl chloride	1.19	U	13.3	1.19	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Bromomethane	1.10	U *	13.3	1.10	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Trichlorofluoromethane	0.875	U	13.3	0.875	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Acrolein	8.26	U	33.1	8.26	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloroethene	1.62	U	6.63	1.62	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
trans-1,2-Dichloroethene	1.51	U	6.63	1.51	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Methyl tert-butyl ether	2.42	U	6.63	2.42	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Methylene Chloride	2.90	U	13.3	2.90	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Acrylonitrile	7.71	U	66.3	7.71	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806
Date Collected: 08/06/20 15:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-2
Matrix: Solid
Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.10	U	6.63	1.10	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Carbon tetrachloride	1.50	U	6.63	1.50	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Benzene	0.835	U	6.63	0.835	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichloroethane	1.19	U	6.63	1.19	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Trichloroethene	1.86	U	6.63	1.86	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1,1-Trichloroethane	0.981	U	6.63	0.981	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloroethane	1.15	U	6.63	1.15	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichloropropane	0.941	U	6.63	0.941	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,4-Dioxane	82.2	U	663	82.2	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Chloroform	**1.18**	**J b**	13.3	0.875	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Bromodichloromethane	0.875	U	6.63	0.875	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1-Dichloropropene	0.861	U	6.63	0.861	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
cis-1,3-Dichloropropene	0.716	U	6.63	0.716	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Toluene	1.83	U	6.63	1.83	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
trans-1,3-Dichloropropene	0.769	U	6.63	0.769	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1,2-Trichloroethane	0.967	U	6.63	0.967	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Tetrachloroethene	0.941	U	6.63	0.941	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,3-Dichloropropene, Total	0.769	U	6.63	0.769	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,2-Dibromoethane	1.35	U	6.63	1.35	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Monochlorobenzene	1.27	U	6.63	1.27	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Ethylbenzene	1.35	U	6.63	1.35	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Xylenes, Total	1.50	U	6.63	1.50	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Styrene	0.941	U	6.63	0.941	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Tribromomethane	1.82	U	6.63	1.82	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,1,2,2-Tetrachloroethane	1.15	U	6.63	1.15	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,4-Dichlorobenzene	0.875	U	6.63	0.875	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,2-Dichlorobenzene	1.06	U	6.63	1.06	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
1,2,4-Trichlorobenzene	2.61	U	6.63	2.61	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1
Dichlorodifluoromethane	2.04	U	6.63	2.04	ug/Kg	☼	08/08/20 10:45	08/08/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*	*08/08/20 10:45*	*08/08/20 14:26*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/08/20 10:45*	*08/08/20 14:26*	*1*
Toluene-d8 (Surr)	*97*		*50 - 130*	*08/08/20 10:45*	*08/08/20 14:26*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*08/08/20 10:45*	*08/08/20 14:26*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	5.26	U	41.8	5.26	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodiethylamine	9.02	U	41.8	9.02	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Bis(2-chloroethyl)ether	2.07	U	41.8	2.07	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Hexachloroethane	2.90	U	41.8	2.90	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosopyrrolidine	5.87	U	41.8	5.87	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Nitrobenzene	3.72	U	41.8	3.72	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Isophorone	1.26	U	41.8	1.26	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2,4-Dichlorophenol	4.86	U	41.8	4.86	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Naphthalene	1.70	U	41.8	1.70	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Hexachlorobutadiene	2.41	U	41.8	2.41	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodi-n-butylamine	20.9	U	41.8	20.9	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2-Methylnaphthalene	3.44	U	41.8	3.44	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE154-S-2-3-200806 **Lab Sample ID: 600-209486-2**
Date Collected: 08/06/20 15:05 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 79.1**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.97	U	41.8	1.97	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
1,2,4,5-Tetrachlorobenzene	8.48	U	41.8	8.48	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Hexachlorocyclopentadiene	5.79	U	41.8	5.79	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2,4,6-Trichlorophenol	3.37	U	41.8	3.37	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2,4,5-Trichlorophenol	12.6	U	41.8	12.6	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dimethyl phthalate	6.14	U	83.8	6.14	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Acenaphthylene	1.26	U	41.8	1.26	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2,6-Dinitrotoluene	3.71	U	41.8	3.71	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Acenaphthene	1.81	U	41.8	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dinitrophenols	5.93	U	126	5.93	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Pentachlorobenzene	5.04	U	41.8	5.04	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
2,4-Dinitrotoluene	4.54	U	41.8	4.54	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Diethyl phthalate	10.6	U	83.8	10.6	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Fluorene	2.97	U	41.8	2.97	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dinitro-o-cresol	6.26	U	214	6.26	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
N-Nitrosodiphenylamine	2.37	U	41.8	2.37	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Diphenylhydrazine, 1,2-	2.04	U	41.8	2.04	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Hexachlorobenzene	1.91	U	41.8	1.91	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Atrazine	6.31	U	41.8	6.31	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Pentachlorophenol	5.03	U	210	5.03	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Phenanthrene	6.22	U	41.8	6.22	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Anthracene	1.61	U	41.8	1.61	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dibutylphthalate	**12.3**	**J**	83.8	3.25	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Fluoranthene	3.91	U	41.8	3.91	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzidine	11.3	U	415	11.3	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Pyrene	2.30	U	41.8	2.30	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dichlorobenzidine, 3,3'-	12.8	U	41.8	12.8	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzo[a]anthracene	1.73	U	41.8	1.73	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Di (2-ethylhexyl)phthalate	**26.9**	**J**	41.8	6.75	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Chrysene	1.28	U	41.8	1.28	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzo[b]fluoranthene	2.16	U	41.8	2.16	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzo[k]fluoranthene	1.87	U	41.8	1.87	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzo[a]pyrene	2.02	U	41.8	2.02	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Indeno[1,2,3-cd]pyrene	4.40	U	41.8	4.40	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Dibenz(a,h)anthracene	4.56	U	41.8	4.56	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Benzo[g,h,i]perylene	6.37	U	41.8	6.37	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
bis (2-chloroisopropyl) ether	11.1	U	41.8	11.1	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1
Thiophene, tetrahydro-, 1,1-dioxide	20.9	U	41.8	20.9	ug/Kg	☼	08/12/20 11:16	08/17/20 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*10 - 148*	*08/12/20 11:16*	*08/17/20 13:37*	*1*
2-Fluorobiphenyl	*63*		*38 - 130*	*08/12/20 11:16*	*08/17/20 13:37*	*1*
2-Fluorophenol	*55*		*25 - 132*	*08/12/20 11:16*	*08/17/20 13:37*	*1*
Nitrobenzene-d5	*60*		*10 - 155*	*08/12/20 11:16*	*08/17/20 13:37*	*1*
Terphenyl-d14	*103*		*53 - 134*	*08/12/20 11:16*	*08/17/20 13:37*	*1*
Phenol-d5 (Surr)	*52*		*27 - 130*	*08/12/20 11:16*	*08/17/20 13:37*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	15.1	U	83.0	15.1	ug/Kg	☼	08/17/20 09:48	08/18/20 16:54	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Date Collected: 08/06/20 15:05
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-2

Matrix: Solid
Percent Solids: 79.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*82*		*30 - 164*	*08/17/20 09:48*	*08/18/20 16:54*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.784	U	1.34	0.784	mg/Kg	☼	08/08/20 07:14	08/08/20 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/08/20 07:14*	*08/08/20 13:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.23	U	9.44	3.23	mg/Kg	☼	08/10/20 15:56	08/13/20 18:04	1
C28-C36	**56.5**		9.44	9.44	mg/Kg	☼	08/10/20 15:56	08/13/20 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*95*		*60 - 140*	*08/10/20 15:56*	*08/13/20 18:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.65	U	2.15	1.65	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, beta-	1.29	U	2.15	1.29	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, delta-	1.07	U	2.15	1.07	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, alpha-	1.26	U	2.15	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Hexachlorocyclohexane, gamma-	1.17	U	2.15	1.17	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Chlordane (technical)	29.5	U	94.7	29.5	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
DDT	2.34	U	4.17	2.34	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Dieldrin	1.75	U	4.17	1.75	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan I	1.26	U	2.15	1.26	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan II	1.91	U	4.17	1.91	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endosulfan sulfate	2.12	U	4.17	2.12	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endrin	1.93	U	4.17	1.93	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Endrin aldehyde	1.97	U	4.17	1.97	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Heptachlor	1.17	U	2.15	1.17	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Heptachlor epoxide	1.48	U	2.15	1.48	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1
Toxaphene	92.3	U	215	92.3	ug/Kg	☼	08/11/20 08:51	08/11/20 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*53*		*47 - 150*	*08/11/20 08:51*	*08/11/20 23:44*	*1*
Tetrachloro-m-xylene	*52*		*50 - 143*	*08/11/20 08:51*	*08/11/20 23:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00202	U	0.0211	0.00202	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1221	0.0109	U	0.0211	0.0109	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1232	0.00846	U	0.0211	0.00846	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1242	0.00157	U	0.0211	0.00157	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1248	0.00314	U	0.0211	0.00314	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1254	0.00279	U	0.0211	0.00279	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1
PCB-1260	0.0170	U	0.0211	0.0170	mg/Kg	☼	08/11/20 08:51	08/12/20 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*46*		*10 - 150*	*08/11/20 08:51*	*08/12/20 17:22*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL18-SQUARE154-S-2-3-200806

Lab Sample ID: 600-209486-2
Date Collected: 08/06/20 15:05
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 79.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*10 - 150*	*08/11/20 08:51*	*08/12/20 17:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.29**	**J**	5.06	0.675	mg/Kg	☼		08/11/20 21:09	1
Nitrate as N	**8.08**		2.53	0.317	mg/Kg	☼		08/11/20 21:09	1
Fluoride	**7.51**		2.53	0.760	mg/Kg	☼		08/11/20 21:09	1
Nitrite as N	0.375	U	2.53	0.375	mg/Kg	☼		08/11/20 21:09	1
Sulfate	**60.6**		6.32	1.21	mg/Kg	☼		08/11/20 21:09	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	0.0226	U	0.0997	0.0226	mg/Kg		08/12/20 15:04	08/13/20 21:17	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0429	U	0.199	0.0429	mg/Kg		08/12/20 15:04	08/13/20 21:17	1
2,4,6-Trinitrotoluene	0.0306	U	0.0997	0.0306	mg/Kg		08/12/20 15:04	08/13/20 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 21:17*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**1.94**		0.618	0.102	ug/Kg	☼	08/12/20 11:00	08/20/20 15:18	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.277	U	0.964	0.277	ug/Kg	☼	08/17/20 14:49	08/24/20 13:31	1
Perfluorohexanesulfonic acid (PFHxS)	0.337	U	0.964	0.337	ug/Kg	☼	08/17/20 14:49	08/24/20 13:31	1
Perfluorooctanesulfonic acid (PFOS)	0.169	U	0.964	0.169	ug/Kg	☼	08/17/20 14:49	08/24/20 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 13:31*	*1*
13C8 PFOS	*92*		*70 - 130*	*08/17/20 14:49*	*08/24/20 13:31*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.832	U	2.22	0.832	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Arsenic	4.44	U	11.1	4.44	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Barium	**316**		22.2	5.55	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Beryllium	1.11	U	2.77	1.11	mg/Kg	☼	08/13/20 11:03	09/04/20 17:33	50
Cadmium	0.266	U	0.555	0.266	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Chromium	4.99	U	11.1	4.99	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Iron	**2320**		133	66.6	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Copper	4.44	U	11.1	4.44	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Manganese	**22.6**		5.55	2.22	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Lead	**1.59**	**J**	3.33	1.39	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Antimony	2.22	U	5.55	2.22	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Selenium	3.55	U	5.55	3.55	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Thallium	2.22	U	5.55	2.22	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Zinc	22.2	U	55.5	22.2	mg/Kg	☼	08/13/20 11:03	08/14/20 20:00	20
Uranium	1.11	U	2.77	1.11	mg/Kg	☼	08/13/20 11:03	09/04/20 17:33	50

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE154-S-2-3-200806 Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 79.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00424	U	0.0201	0.00424	mg/Kg	☼	09/02/20 13:16	09/03/20 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**79.1**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0218	U	0.145	0.0218	mg/Kg	☼	08/19/20 16:06	08/19/20 22:20	1
pH	**8.8**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.530	U	0.632	0.530	mg/Kg	☼	08/19/20 16:29	08/19/20 20:45	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**111**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.656**		0.160	0.174	1.00	0.116	pCi/g	08/17/20 17:22	09/08/20 14:00	1
Radium-228	0.269	U	0.0939	0.0978		0.332	pCi/g	08/17/20 17:22	09/08/20 14:00	1
Combined Radium 226 + 228	**0.924**		0.186	0.200		0.332	pCi/g	08/17/20 17:22	09/08/20 14:00	1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806 Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39 Matrix: Solid
Date Received: 08/07/20 09:20 Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.95	U	11.7	1.95	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Vinyl chloride	1.06	U	11.7	1.06	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Bromomethane	0.974	U *	11.7	0.974	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Trichlorofluoromethane	0.774	U	11.7	0.774	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Acrolein	7.31	U	29.3	7.31	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloroethene	1.43	U	5.87	1.43	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
trans-1,2-Dichloroethene	1.34	U	5.87	1.34	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Methyl tert-butyl ether	2.15	U	5.87	2.15	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Methylene Chloride	2.57	U	11.7	2.57	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Acrylonitrile	6.83	U	58.7	6.83	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
cis-1,2-Dichloroethene	0.974	U	5.87	0.974	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Carbon tetrachloride	1.33	U	5.87	1.33	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Benzene	0.739	U	5.87	0.739	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichloroethane	1.06	U	5.87	1.06	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Trichloroethene	1.64	U	5.87	1.64	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1,1-Trichloroethane	0.868	U	5.87	0.868	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloroethane	1.02	U	5.87	1.02	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichloropropane	0.833	U	5.87	0.833	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,4-Dioxane	72.8	U	587	72.8	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Chloroform	**0.974**	**J b**	11.7	0.774	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Bromodichloromethane	0.774	U	5.87	0.774	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1-Dichloropropene	0.763	U	5.87	0.763	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806
Date Collected: 08/06/20 15:39
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-3
Matrix: Solid
Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.634	U	5.87	0.634	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Toluene	1.62	U	5.87	1.62	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
trans-1,3-Dichloropropene	0.681	U	5.87	0.681	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1,2-Trichloroethane	0.857	U	5.87	0.857	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Tetrachloroethene	0.833	U	5.87	0.833	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,3-Dichloropropene, Total	0.681	U	5.87	0.681	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,2-Dibromoethane	1.20	U	5.87	1.20	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Monochlorobenzene	1.13	U	5.87	1.13	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Ethylbenzene	1.20	U	5.87	1.20	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Xylenes, Total	1.33	U	5.87	1.33	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Styrene	0.833	U	5.87	0.833	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Tribromomethane	1.61	U	5.87	1.61	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,1,2,2-Tetrachloroethane	1.02	U	5.87	1.02	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,4-Dichlorobenzene	0.774	U	5.87	0.774	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,2-Dichlorobenzene	0.939	U	5.87	0.939	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
1,2,4-Trichlorobenzene	2.31	U	5.87	2.31	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1
Dichlorodifluoromethane	1.81	U	5.87	1.81	ug/Kg	☼	08/08/20 10:45	08/08/20 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 130*	*08/08/20 10:45*	*08/08/20 14:50*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*08/08/20 10:45*	*08/08/20 14:50*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*08/08/20 10:45*	*08/08/20 14:50*	*1*
4-Bromofluorobenzene	*104*		*57 - 140*	*08/08/20 10:45*	*08/08/20 14:50*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.70	U	37.4	4.70	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodiethylamine	8.06	U	37.4	8.06	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Bis(2-chloroethyl)ether	1.85	U	37.4	1.85	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Hexachloroethane	2.59	U	37.4	2.59	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosopyrrolidine	5.24	U	37.4	5.24	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Nitrobenzene	3.32	U	37.4	3.32	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Isophorone	1.12	U	37.4	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2,4-Dichlorophenol	4.34	U	37.4	4.34	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Naphthalene	1.51	U	37.4	1.51	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Hexachlorobutadiene	2.15	U	37.4	2.15	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodi-n-butylamine	18.7	U	37.4	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2-Methylnaphthalene	3.07	U	37.4	3.07	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
1-Methylnaphthalene	1.76	U	37.4	1.76	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
1,2,4,5-Tetrachlorobenzene	7.57	U	37.4	7.57	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Hexachlorocyclopentadiene	5.17	U	37.4	5.17	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2,4,6-Trichlorophenol	3.01	U	37.4	3.01	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2,4,5-Trichlorophenol	11.2	U	37.4	11.2	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dimethyl phthalate	5.49	U	74.8	5.49	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Acenaphthylene	1.12	U	37.4	1.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2,6-Dinitrotoluene	3.31	U	37.4	3.31	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Acenaphthene	1.62	U	37.4	1.62	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dinitrophenols	5.30	U	112	5.30	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Pentachlorobenzene	4.50	U	37.4	4.50	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
2,4-Dinitrotoluene	4.05	U	37.4	4.05	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806
Date Collected: 08/06/20 15:39
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-3
Matrix: Solid
Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.46	U	74.8	9.46	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Fluorene	2.65	U	37.4	2.65	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dinitro-o-cresol	5.59	U	191	5.59	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
N-Nitrosodiphenylamine	2.12	U	37.4	2.12	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Diphenylhydrazine, 1,2-	1.82	U	37.4	1.82	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Hexachlorobenzene	1.71	U	37.4	1.71	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Atrazine	5.63	U	37.4	5.63	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Pentachlorophenol	4.49	U	187	4.49	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Phenanthrene	5.55	U	37.4	5.55	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Anthracene	1.44	U	37.4	1.44	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dibutylphthalate	2.91	U	74.8	2.91	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Fluoranthene	3.49	U	37.4	3.49	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzidine	10.1	U	370	10.1	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Pyrene	2.05	U	37.4	2.05	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dichlorobenzidine, 3,3'-	11.4	U	37.4	11.4	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzo[a]anthracene	1.55	U	37.4	1.55	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Di (2-ethylhexyl)phthalate	**27.8**	**J**	37.4	6.02	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Chrysene	1.14	U	37.4	1.14	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzo[b]fluoranthene	1.93	U	37.4	1.93	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzo[k]fluoranthene	1.67	U	37.4	1.67	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzo[a]pyrene	1.81	U	37.4	1.81	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Indeno[1,2,3-cd]pyrene	3.93	U	37.4	3.93	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Dibenz(a,h)anthracene	4.07	U	37.4	4.07	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Benzo[g,h,i]perylene	5.69	U	37.4	5.69	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
bis (2-chloroisopropyl) ether	9.92	U	37.4	9.92	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1
Thiophene, tetrahydro-, 1,1-dioxide	18.7	U	37.4	18.7	ug/Kg	☼	08/12/20 11:16	08/17/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*42*		*10 - 148*	*08/12/20 11:16*	*08/17/20 14:02*	*1*
2-Fluorobiphenyl	*88*		*38 - 130*	*08/12/20 11:16*	*08/17/20 14:02*	*1*
2-Fluorophenol	*86*		*25 - 132*	*08/12/20 11:16*	*08/17/20 14:02*	*1*
Nitrobenzene-d5	*88*		*10 - 155*	*08/12/20 11:16*	*08/17/20 14:02*	*1*
Terphenyl-d14	*108*		*53 - 134*	*08/12/20 11:16*	*08/17/20 14:02*	*1*
Phenol-d5 (Surr)	*85*		*27 - 130*	*08/12/20 11:16*	*08/17/20 14:02*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.5	13.0	ug/Kg	☼	08/17/20 09:48	08/18/20 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*40*		*30 - 164*	*08/17/20 09:48*	*08/18/20 18:09*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.618	U	1.05	0.618	mg/Kg	☼	08/08/20 07:14	08/08/20 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*08/08/20 07:14*	*08/08/20 13:31*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Date Collected: 08/06/20 15:39
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-3

Matrix: Solid
Percent Solids: 88.8

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.87	U	8.41	2.87	mg/Kg	☼	08/10/20 15:56	08/13/20 18:38	1
C28-C36	8.41	U	8.41	8.41	mg/Kg	☼	08/10/20 15:56	08/13/20 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*129*		*60 - 140*	*08/10/20 15:56*	*08/13/20 18:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.47	U	1.91	1.47	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, beta-	1.14	U	1.91	1.14	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, delta-	0.954	U	1.91	0.954	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, alpha-	1.12	U	1.91	1.12	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Hexachlorocyclohexane, gamma-	1.04	U	1.91	1.04	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Chlordane (technical)	26.3	U	84.1	26.3	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
DDT	2.08	U	3.70	2.08	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Dieldrin	1.56	U	3.70	1.56	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Endosulfan I	1.12	U	1.91	1.12	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Endosulfan II	1.69	U	3.70	1.69	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Endosulfan sulfate	1.88	U	3.70	1.88	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Endrin	1.72	U	3.70	1.72	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Endrin aldehyde	1.75	U	3.70	1.75	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Heptachlor	1.04	U	1.91	1.04	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Heptachlor epoxide	1.31	U	1.91	1.31	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1
Toxaphene	82.0	U	191	82.0	ug/Kg	☼	08/11/20 08:51	08/12/20 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*47 - 150*	*08/11/20 08:51*	*08/12/20 00:08*	*1*
Tetrachloro-m-xylene	*71*		*50 - 143*	*08/11/20 08:51*	*08/12/20 00:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0187	0.00180	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1221	0.00968	U	0.0187	0.00968	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1232	0.00752	U	0.0187	0.00752	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1242	0.00139	U	0.0187	0.00139	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1248	0.00279	U	0.0187	0.00279	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1254	0.00248	U	0.0187	0.00248	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1
PCB-1260	0.0151	U	0.0187	0.0151	mg/Kg	☼	08/11/20 08:51	08/12/20 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*10 - 150*	*08/11/20 08:51*	*08/12/20 17:47*	*1*
DCB Decachlorobiphenyl	*123*		*10 - 150*	*08/11/20 08:51*	*08/12/20 17:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.15**	**J**	4.51	0.601	mg/Kg	☼		08/11/20 21:30	1
Nitrate as N	**13.1**		2.25	0.283	mg/Kg	☼		08/11/20 21:30	1
Fluoride	**6.54**		2.25	0.677	mg/Kg	☼		08/11/20 21:30	1
Nitrite as N	0.335	U	2.25	0.335	mg/Kg	☼		08/11/20 21:30	1
Sulfate	**40.2**		5.63	1.08	mg/Kg	☼		08/11/20 21:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Client Sample ID: CELL19-SQUARE62-S-2-3-200806

Date Collected: 08/06/20 15:39
Date Received: 08/07/20 09:20

Lab Sample ID: 600-209486-3

Matrix: Solid
Percent Solids: 88.8

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	0.0985	0.0224	mg/Kg		08/12/20 15:04	08/13/20 21:40	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0424	U	0.197	0.0424	mg/Kg		08/12/20 15:04	08/13/20 21:40	1
2,4,6-Trinitrotoluene	0.0302	U	0.0985	0.0302	mg/Kg		08/12/20 15:04	08/13/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/12/20 15:04*	*08/13/20 21:40*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.544**	**J**	0.552	0.0909	ug/Kg	☼	08/12/20 11:00	08/20/20 15:38	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.252	U	0.875	0.252	ug/Kg	☼	08/17/20 14:49	08/24/20 13:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.306	U	0.875	0.306	ug/Kg	☼	08/17/20 14:49	08/24/20 13:40	1
Perfluorooctanesulfonic acid (PFOS)	0.153	U	0.875	0.153	ug/Kg	☼	08/17/20 14:49	08/24/20 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 13:40*	*1*
13C8 PFOS	*95*		*70 - 130*	*08/17/20 14:49*	*08/24/20 13:40*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.770	U	2.05	0.770	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Arsenic	4.11	U	10.3	4.11	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Barium	**89.9**		20.5	5.13	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Beryllium	1.03	U	2.57	1.03	mg/Kg	☼	08/13/20 11:03	09/04/20 17:35	50
Cadmium	0.246	U	0.513	0.246	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Chromium	4.62	U	10.3	4.62	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Iron	**2220**		123	61.6	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Copper	4.11	U	10.3	4.11	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Manganese	**24.1**		5.13	2.05	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Lead	3.21	U	7.70	3.21	mg/Kg	☼	08/13/20 11:03	09/04/20 17:35	50
Antimony	2.05	U	5.13	2.05	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Selenium	3.29	U	5.13	3.29	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Thallium	5.13	U	12.8	5.13	mg/Kg	☼	08/13/20 11:03	09/04/20 17:35	50
Zinc	20.5	U	51.3	20.5	mg/Kg	☼	08/13/20 11:03	08/14/20 20:02	20
Uranium	1.03	U	2.57	1.03	mg/Kg	☼	08/13/20 11:03	09/04/20 17:35	50

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00390	U	0.0185	0.00390	mg/Kg	☼	09/02/20 13:16	09/03/20 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		1.0	1.0	%			08/11/20 08:50	1
Percent Solids	**88.8**		1.0	1.0	%			08/11/20 08:50	1
Cyanide, Total	0.0184	U	0.123	0.0184	mg/Kg	☼	08/19/20 16:06	08/19/20 22:21	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	**0.568**	**b**	0.561	0.471	mg/Kg	☼	08/19/20 16:29	08/19/20 20:46	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE62-S-2-3-200806 **Lab Sample ID: 600-209486-3**
Date Collected: 08/06/20 15:39 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 88.8**

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99.0		10.0	10.0	mg/L			08/17/20 11:57	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	0.829		0.143	0.167	1.00	0.0665	pCi/g	08/17/20 17:22	09/08/20 15:03	1
Radium-228	0.226	U	0.199	0.200		0.250	pCi/g	08/17/20 17:22	09/08/20 15:03	1
Combined Radium 226 + 228	1.06		0.245	0.261		0.250	pCi/g	08/17/20 17:22	09/08/20 15:03	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result is greater then the UQL and the concentration is an estimated value.
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.

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.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

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
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC 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.

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
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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	86	84	98	105
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	89	86	97	107
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	92	86	93	104
LCS 600-300707/3	Lab Control Sample	90	88	95	110
LCSD 600-300707/4	Lab Control Sample Dup	89	88	91	107
MB 600-300707/6	Method Blank	108	87	92	113

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	48	86	79	84	103	75
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	65	63	55	60	103	52
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	42	88	86	88	108	85
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	64
600-209486-1 MS	CELL18-SQUARE176-S-2-3-20 0806	75
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	82
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	40
LCS 400-500496/2-A	Lab Control Sample	94

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
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)								
MB 400-500496/1-A	Method Blank	86								

Surrogate Legend
TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT1 (70-130)								
600-209486-1	CELL18-SQUARE176-S-2-3-20(	82								
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	95								
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	100								
LCS 600-300708/1-A	Lab Control Sample	96								
LCSD 600-300708/2-A	Lab Control Sample Dup	96								
MB 600-300708/3-A	Method Blank	95								

Surrogate Legend
TFT = a,a,a-Trifluorotoluene

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 (60-140)								
600-209486-1	CELL18-SQUARE176-S-2-3-20(	98								
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	95								
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	129								
LCS 600-300806/2-A	Lab Control Sample	131								
LCSD 600-300806/3-A	Lab Control Sample Dup	131								
MB 600-300806/1-A	Method Blank	125								

Surrogate Legend
OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)							
600-209486-1	CELL18-SQUARE176-S-2-3-20(	90	90							
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	53	52							
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	94	71							
LCS 600-300862/2-A	Lab Control Sample	76	74							
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89							

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
MB 600-300862/1-A	Method Blank	127	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	88	111
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	46	75
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	77	123
LCS 600-300862/4-A	Lab Control Sample	85	104
LCSD 600-300862/5-A	Lab Control Sample Dup	78	101
MB 600-300862/1-A	Method Blank	117	165 X

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	105
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	102
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	104
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209486-1	CELL18-SQUARE176-S-2-3-20(	104	95
600-209486-2	CELL18-SQUARE154-S-2-3-20 0806	102	92
600-209486-3	CELL19-SQUARE62-S-2-3-200 806	104	95
DLCK 280-500633/14	Lab Control Sample	108	91

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
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)								
LCS 280-505864/2-A	Lab Control Sample	101	98								
MB 280-505864/1-A	Method Blank	104	94								

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: 600-209486-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-300707/6
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/08/20 09:03	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/08/20 09:03	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/08/20 09:03	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/08/20 09:03	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/08/20 09:03	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/08/20 09:03	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/08/20 09:03	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/08/20 09:03	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/08/20 09:03	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/08/20 09:03	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/08/20 09:03	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/08/20 09:03	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/08/20 09:03	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/08/20 09:03	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/08/20 09:03	1
Chloroform	1.041	J	10.0	0.660	ug/Kg			08/08/20 09:03	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/08/20 09:03	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/08/20 09:03	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/08/20 09:03	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/08/20 09:03	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/08/20 09:03	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/08/20 09:03	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/08/20 09:03	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/08/20 09:03	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/08/20 09:03	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/08/20 09:03	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/08/20 09:03	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/08/20 09:03	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/08/20 09:03	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/08/20 09:03	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/08/20 09:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*61 - 130*		*08/08/20 09:03*	*1*
Dibromofluoromethane	*87*		*68 - 140*		*08/08/20 09:03*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*		*08/08/20 09:03*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*		*08/08/20 09:03*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-300707/3
Matrix: Solid
Analysis Batch: 300707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	68.16		ug/Kg		136	44 - 141
Vinyl chloride	50.0	56.75		ug/Kg		113	40 - 148
Bromomethane	50.0	48.02		ug/Kg		96	37 - 147
Trichlorofluoromethane	50.0	57.85		ug/Kg		116	53 - 134
Acrolein	250	213.3		ug/Kg		85	10 - 150
1,1-Dichloroethene	50.0	44.56		ug/Kg		89	62 - 142
trans-1,2-Dichloroethene	50.0	47.78		ug/Kg		96	69 - 130
Methyl tert-butyl ether	50.0	50.55		ug/Kg		101	63 - 132
Methylene Chloride	50.0	46.72		ug/Kg		93	61 - 150
Acrylonitrile	500	477.4		ug/Kg		95	43 - 150
cis-1,2-Dichloroethene	50.0	43.88		ug/Kg		88	70 - 130
Carbon tetrachloride	50.0	50.78		ug/Kg		102	58 - 130
Benzene	50.0	45.50		ug/Kg		91	70 - 131
1,2-Dichloroethane	50.0	53.50		ug/Kg		107	58 - 137
Trichloroethene	50.0	41.64		ug/Kg		83	63 - 135
1,1,1-Trichloroethane	50.0	52.33		ug/Kg		105	59 - 130
1,1-Dichloroethane	50.0	51.11		ug/Kg		102	63 - 140
1,2-Dichloropropane	50.0	47.06		ug/Kg		94	70 - 130
1,4-Dioxane	1000	662.8		ug/Kg		66	31 - 150
Chloroform	50.0	49.95		ug/Kg		100	69 - 130
Bromodichloromethane	50.0	50.27		ug/Kg		101	67 - 138
1,1-Dichloropropene	50.0	47.30		ug/Kg		95	67 - 130
cis-1,3-Dichloropropene	50.0	48.77		ug/Kg		98	65 - 130
Toluene	50.0	45.97		ug/Kg		92	67 - 130
trans-1,3-Dichloropropene	50.0	49.22		ug/Kg		98	70 - 130
1,1,2-Trichloroethane	50.0	45.10		ug/Kg		90	67 - 134
Tetrachloroethene	50.0	43.27		ug/Kg		87	43 - 143
1,3-Dichloropropene, Total	100	97.99		ug/Kg		98	70 - 130
1,2-Dibromoethane	50.0	43.15		ug/Kg		86	65 - 136
Monochlorobenzene	50.0	45.30		ug/Kg		91	63 - 131
Ethylbenzene	50.0	44.42		ug/Kg		89	66 - 130
Xylenes, Total	100	91.39		ug/Kg		91	63 - 130
Styrene	50.0	44.25		ug/Kg		88	65 - 133
Tribromomethane	50.0	48.18		ug/Kg		96	43 - 150
1,1,2,2-Tetrachloroethane	50.0	47.62		ug/Kg		95	61 - 138
1,4-Dichlorobenzene	50.0	49.31		ug/Kg		99	65 - 131
1,2-Dichlorobenzene	50.0	49.61		ug/Kg		99	61 - 131
1,2,4-Trichlorobenzene	50.0	49.16		ug/Kg		98	53 - 136
Dichlorodifluoromethane	50.0	64.31		ug/Kg		129	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*95*		*50 - 130*
4-Bromofluorobenzene	*110*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-300707/4
Matrix: Solid
Analysis Batch: 300707

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
Chloromethane			50.0	57.80		ug/Kg		116	44 - 141	16	30
Vinyl chloride			50.0	48.37		ug/Kg		97	40 - 148	16	30
Bromomethane			50.0	34.53	*	ug/Kg		69	37 - 147	33	30
Trichlorofluoromethane			50.0	53.31		ug/Kg		107	53 - 134	8	30
Acrolein			250	167.3		ug/Kg		67	10 - 150	24	30
1,1-Dichloroethene			50.0	39.90		ug/Kg		80	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	43.12		ug/Kg		86	69 - 130	10	30
Methyl tert-butyl ether			50.0	49.06		ug/Kg		98	63 - 132	3	30
Methylene Chloride			50.0	40.83		ug/Kg		82	61 - 150	13	30
Acrylonitrile			500	382.6		ug/Kg		77	43 - 150	22	30
cis-1,2-Dichloroethene			50.0	43.72		ug/Kg		87	70 - 130	0	30
Carbon tetrachloride			50.0	48.66		ug/Kg		97	58 - 130	4	30
Benzene			50.0	43.98		ug/Kg		88	70 - 131	3	30
1,2-Dichloroethane			50.0	51.06		ug/Kg		102	58 - 137	5	30
Trichloroethene			50.0	40.15		ug/Kg		80	63 - 135	4	30
1,1,1-Trichloroethane			50.0	50.47		ug/Kg		101	59 - 130	4	30
1,1-Dichloroethane			50.0	48.37		ug/Kg		97	63 - 140	6	30
1,2-Dichloropropane			50.0	45.74		ug/Kg		91	70 - 130	3	30
1,4-Dioxane			1000	744.2		ug/Kg		74	31 - 150	12	30
Chloroform			50.0	47.93		ug/Kg		96	69 - 130	4	30
Bromodichloromethane			50.0	47.68		ug/Kg		95	67 - 138	5	30
1,1-Dichloropropene			50.0	47.28		ug/Kg		95	67 - 130	0	30
cis-1,3-Dichloropropene			50.0	45.41		ug/Kg		91	65 - 130	7	30
Toluene			50.0	43.25		ug/Kg		87	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	46.31		ug/Kg		93	70 - 130	6	30
1,1,2-Trichloroethane			50.0	41.82		ug/Kg		84	67 - 134	8	30
Tetrachloroethene			50.0	41.84		ug/Kg		84	43 - 143	3	30
1,3-Dichloropropene, Total			100	91.72		ug/Kg		92	70 - 130	7	30
1,2-Dibromoethane			50.0	40.36		ug/Kg		81	65 - 136	7	30
Monochlorobenzene			50.0	43.22		ug/Kg		86	63 - 131	5	30
Ethylbenzene			50.0	42.25		ug/Kg		85	66 - 130	5	30
Xylenes, Total			100	87.88		ug/Kg		88	63 - 130	4	30
Styrene			50.0	42.79		ug/Kg		86	65 - 133	3	30
Tribromomethane			50.0	44.68		ug/Kg		89	43 - 150	8	30
1,1,2,2-Tetrachloroethane			50.0	41.86		ug/Kg		84	61 - 138	13	30
1,4-Dichlorobenzene			50.0	46.96		ug/Kg		94	65 - 131	5	30
1,2-Dichlorobenzene			50.0	46.90		ug/Kg		94	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	45.58		ug/Kg		91	53 - 136	8	30
Dichlorodifluoromethane			50.0	56.57		ug/Kg		113	24 - 147	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*
Dibromofluoromethane	*88*		*68 - 140*
Toluene-d8 (Surr)	*91*		*50 - 130*
4-Bromofluorobenzene	*107*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500496/1-A
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/17/20 09:48	08/18/20 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	86		30 - 164	08/17/20 09:48	08/18/20 13:08	1

Lab Sample ID: LCS 400-500496/2-A
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	320.1		ug/Kg		96	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenylphosphate	94		30 - 164

Lab Sample ID: 600-209486-1 MS
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 500496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon	14.0	U	388	315.5		ug/Kg	☼	81	40 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
Triphenylphosphate	75		30 - 164

Lab Sample ID: 600-209486-1 MSD
Matrix: Solid
Analysis Batch: 500677

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 500496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Prometon	14.0	U	388	133.9	N1 N2	ug/Kg	☼	34	40 - 140	81	50

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-300708/3-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		08/08/20 07:14	08/08/20 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*	*08/08/20 07:14*	*08/08/20 09:47*	*1*

Lab Sample ID: LCS 600-300708/1-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.069		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*

Lab Sample ID: LCSD 600-300708/2-A
Matrix: Solid
Analysis Batch: 300709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.417		mg/Kg		108	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	70.64		mg/Kg		106	66 - 134

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*47 - 150*	*08/11/20 08:51*	*08/11/20 19:37*	*1*
Tetrachloro-m-xylene	*116*		*50 - 143*	*08/11/20 08:51*	*08/11/20 19:37*	*1*

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			16.6	18.06		ug/Kg		109	42 - 150		
Hexachlorocyclohexane, beta-			16.6	18.03		ug/Kg		108	32 - 150		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hexachlorocyclohexane, delta-			16.6	20.49		ug/Kg		123	33 - 150		
Hexachlorocyclohexane, alpha-			16.6	18.14		ug/Kg		109	63 - 130		
Hexachlorocyclohexane, gamma-			16.6	18.30		ug/Kg		110	36 - 150		
DDT			16.6	22.31		ug/Kg		134	46 - 150		
Dieldrin			16.6	18.72		ug/Kg		113	42 - 150		
Endosulfan I			16.6	13.84		ug/Kg		83	37 - 150		
Endosulfan II			16.6	18.94		ug/Kg		114	43 - 150		
Endosulfan sulfate			16.6	20.02		ug/Kg		120	32 - 150		
Endrin			16.6	20.38		ug/Kg		123	41 - 150		
Endrin aldehyde			16.6	22.48		ug/Kg		135	42 - 150		
Heptachlor			16.6	18.17		ug/Kg		109	35 - 150		
Heptachlor epoxide			16.6	17.12		ug/Kg		103	42 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-			16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-			16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-			16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-			16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT			16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin			16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I			16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II			16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate			16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1221	0.00860	U	0.0166	0.00860	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1232	0.00667	U	0.0166	0.00667	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1242	0.00124	U	0.0166	0.00124	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/11/20 08:51	08/12/20 12:54	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/11/20 08:51	08/12/20 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*
DCB Decachlorobiphenyl	*165*	*X*	*10 - 150*	*08/11/20 08:51*	*08/12/20 12:54*	*1*

Lab Sample ID: LCS 600-300862/4-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.166	0.1532		mg/Kg		92	42 - 130		
PCB-1260			0.166	0.1225		mg/Kg		74	59 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*10 - 150*
DCB Decachlorobiphenyl	*104*		*10 - 150*

Lab Sample ID: LCSD 600-300862/5-A
Matrix: Solid
Analysis Batch: 300977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.1574		mg/Kg		95	42 - 130	3	30
PCB-1260			0.166	0.1241		mg/Kg		75	59 - 135	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*10 - 150*
DCB Decachlorobiphenyl	*101*		*10 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	106		83 - 122

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-479336/1-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0656	U	0.175	0.0656	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Arsenic	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Barium	0.438	U	1.75	0.438	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Cadmium	0.0210	U	0.0438	0.0210	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Chromium	0.394	U	0.875	0.394	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Iron	5.25	U	10.5	5.25	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Copper	0.350	U	0.875	0.350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-479336/1-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Lead	0.109	U	0.263	0.109	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Antimony	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Selenium	0.280	U	0.438	0.280	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Thallium	0.175	U	0.438	0.175	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Zinc	1.75	U	4.38	1.75	mg/Kg		08/13/20 11:03	08/14/20 19:16	2
Uranium	0.0350	U	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/14/20 19:16	2

Lab Sample ID: MB 160-479336/1-A ^2
Matrix: Solid
Analysis Batch: 479960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0350	U ^	0.0875	0.0350	mg/Kg		08/13/20 11:03	08/19/20 18:31	2

Lab Sample ID: LCS 160-479336/2-A ^2
Matrix: Solid
Analysis Batch: 479582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	19.7	19.01		mg/Kg		96	66 - 133
Arsenic	98.6	102.8		mg/Kg		104	70 - 131
Barium	98.6	96.21		mg/Kg		98	74 - 125
Beryllium	9.87	9.322		mg/Kg		94	74 - 126
Cadmium	98.5	101.0		mg/Kg		103	73 - 139
Chromium	98.6	105.1		mg/Kg		107	69 - 130
Iron	986	1028		mg/Kg		104	32 - 167
Copper	98.5	112.8		mg/Kg		114	73 - 126
Manganese	98.6	102.7		mg/Kg		104	77 - 124
Lead	98.5	104.5		mg/Kg		106	80 - 120
Antimony	49.3	45.79		mg/Kg		93	21 - 251
Selenium	49.3	50.05		mg/Kg		102	69 - 131
Thallium	19.7	20.63		mg/Kg		105	68 - 131
Zinc	98.5	103.4		mg/Kg		105	71 - 128
Uranium	98.6	103.5		mg/Kg		105	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302704

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 600-302704/8-A
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301619/1-A
Matrix: Solid
Analysis Batch: 301634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/19/20 16:06	08/19/20 22:11	1

Lab Sample ID: LCS 600-301619/2-A
Matrix: Solid
Analysis Batch: 301634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1093		mg/Kg		109	90 - 110

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301626/1-A
Matrix: Solid
Analysis Batch: 301633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.004840	J	0.00500	0.00419	mg/Kg		08/19/20 16:29	08/19/20 20:57	1

Lab Sample ID: LCS 600-301626/2-A
Matrix: Solid
Analysis Batch: 301633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.1004		mg/Kg		100	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479639/1-A
Matrix: Solid
Analysis Batch: 481714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479639

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05851	U	0.184	0.184	1.00	0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Radium-228	0.1048	U	0.195	0.196		0.306	pCi/g	08/17/20 17:22	09/08/20 10:45	1
Combined Radium 226 + 228	0.1633	U	0.268	0.269		0.317	pCi/g	08/17/20 17:22	09/08/20 10:45	1

Lab Sample ID: LCS 160-479639/2-A
Matrix: Solid
Analysis Batch: 481712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479639

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Americium-241			96.5	99.34		10.4		0.855	pCi/g	103	87 - 116		
Cesium-137			26.9	24.88		2.65		0.174	pCi/g	93	87 - 120		
Cobalt-60			9.80	8.970		0.943		0.105	pCi/g	92	87 - 115		

Lab Sample ID: 600-209486-1 DU
Matrix: Solid
Analysis Batch: 481717

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Prep Type: Total/NA
Prep Batch: 479639

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.763			0.8058		0.159	1.00	0.0850	pCi/g			0.14	1
Radium-228	0.391			0.2655		0.136		0.128	pCi/g			0.49	1
Combined Radium 226 + 228	1.15			1.071		0.209		0.128	pCi/g			0.20	1

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

GC/MS VOA

Analysis Batch: 300707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8260B	300714
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8260B	300714
MB 600-300707/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-300707/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-300707/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 300714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8270C LL	300979
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8270C LL	300979
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 500496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 400-500496/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-209486-1 MS	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-1 MSD	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	

Analysis Batch: 500677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8270D	500496
MB 400-500496/1-A	Method Blank	Total/NA	Solid	8270D	500496

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

GC/MS Semi VOA (Continued)

Analysis Batch: 500677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-500496/2-A	Lab Control Sample	Total/NA	Solid	8270D	500496
600-209486-1 MS	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496
600-209486-1 MSD	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8270D	500496

GC VOA

Prep Batch: 300708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	5030B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	5030B	
MB 600-300708/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 300709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8015B	300708
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8015B	300708
MB 600-300708/3-A	Method Blank	Total/NA	Solid	8015B	300708
LCS 600-300708/1-A	Lab Control Sample	Total/NA	Solid	8015B	300708
LCSD 600-300708/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300708

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3546	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3546	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8081A	300862
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8081A	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

GC Semi VOA (Continued)

Analysis Batch: 300913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

Analysis Batch: 300977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8082	300862
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8082	300862
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8082	300862
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8082	300862
LCS 600-300862/4-A	Lab Control Sample	Total/NA	Solid	8082	300862
LCSD 600-300862/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	300862

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8015B	300806
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	300.0	300916
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Soluble	Solid	DI Leach	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Soluble	Solid	DI Leach	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

HPLC/IC

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Increment, prep	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8330B	505294
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	8330B	505436
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6860	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6860	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	PFC leach	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6860	505376
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6860	505376
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6860	505376

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

LCMS (Continued)

Analysis Batch: 506026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	7471B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	7471B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	7471B	302704
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704

Prep Batch: 479336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	3050B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	3050B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	3050B	
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 479582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6020	479336
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336
LCS 160-479336/2-A ^2	Lab Control Sample	Total/NA	Solid	6020	479336

Analysis Batch: 479960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-479336/1-A ^2	Method Blank	Total/NA	Solid	6020	479336

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Metals

Analysis Batch: 481698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	6020	479336
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	6020	479336

General Chemistry

Analysis Batch: 300861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	2540B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	2540B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	7 Day Leach	Solid	335.521	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209486-2	CELL18-SQUARE154-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
600-209486-3	CELL19-SQUARE62-S-2-3-200806	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

Prep Batch: 301619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9012B	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9012B	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9012B	
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	

Prep Batch: 301626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Distill/Phenol	
MB 600-301626/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 301633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9066	301626
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9066	301626
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9066	301626
MB 600-301626/1-A	Method Blank	Total/NA	Solid	9066	301626
LCS 600-301626/2-A	Lab Control Sample	Total/NA	Solid	9066	301626

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

General Chemistry

Analysis Batch: 301634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9012B	301619
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9012B	301619
MB 600-301619/1-A	Method Blank	Total/NA	Solid	9012B	301619
LCS 600-301619/2-A	Lab Control Sample	Total/NA	Solid	9012B	301619

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	9045D	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	9045D	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	

Rad

Leach Batch: 479217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Dry and Grind	
600-209486-1 DU	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Dry and Grind	

Prep Batch: 479639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209486-1	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
600-209486-2	CELL18-SQUARE154-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
600-209486-3	CELL19-SQUARE62-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217
MB 160-479639/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479639/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
600-209486-1 DU	CELL18-SQUARE176-S-2-3-200806	Total/NA	Solid	Fill_Geo-21	479217

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Lab Sample ID: 600-209486-1
Date Collected: 08/06/20 14:35
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.16 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 20:54	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.08 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			374.3 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481712	09/08/20 13:57	SCB	TAL SL

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Lab Sample ID: 600-209486-1
Date Collected: 08/06/20 14:35
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:03	WS1	TAL HOU
Total/NA	Prep	3546			15.04 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 13:13	TTD	TAL HOU
Total/NA	Prep	3546			15.02 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 16:29	PP1	TAL PEN
Total/NA	Prep	5030B			9.52 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 12:41	WS1	TAL HOU
Total/NA	Prep	3546			3.06 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 16:57	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 23:19	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 16:57	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 20:49	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 20:49	W1N	TAL HOU
Total/NA	Prep	6860			10.37 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:13	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.98 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:23	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5307 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 19:58	FLC	TAL SL
Total/NA	Prep	3050B			0.5307 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:23	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:48	DCL	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE176-S-2-3-200806
Lab Sample ID: 600-209486-1
Date Collected: 08/06/20 14:35
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9012B			0.537 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:20	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.501 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:44	AML	TAL HOU

Client Sample ID: CELL18-SQUARE154-S-2-3-200806
Lab Sample ID: 600-209486-2
Date Collected: 08/06/20 15:05
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.03 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 21:17	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.04 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			353.3 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481711	09/08/20 14:00	SCB	TAL SL

Client Sample ID: CELL18-SQUARE154-S-2-3-200806
Lab Sample ID: 600-209486-2
Date Collected: 08/06/20 15:05
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.77 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:26	WS1	TAL HOU
Total/NA	Prep	3546			15.09 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 13:37	TTD	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 16:54	PP1	TAL PEN
Total/NA	Prep	5030B			9.45 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 13:06	WS1	TAL HOU
Total/NA	Prep	3546			10.04 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 18:04	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/11/20 23:44	JAL	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1	1 mL	1.0 mL	300977	08/12/20 17:22	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:09	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:09	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL18-SQUARE154-S-2-3-200806
Lab Sample ID: 600-209486-2

Date Collected: 08/06/20 15:05
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	6860			10.22 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:18	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.494 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:31	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5695 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 20:00	FLC	TAL SL
Total/NA	Prep	3050B			0.5695 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:33	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:50	DCL	TAL HOU
Total/NA	Prep	9012B			0.523 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:20	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.500 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:45	AML	TAL HOU

Client Sample ID: CELL19-SQUARE62-S-2-3-200806
Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39
Matrix: Solid
Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.15 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 21:40	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300861	08/11/20 08:50	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479217	08/12/20 08:19	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			348.9 g	1.0 g	479639	08/17/20 17:22	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			481708	09/08/20 15:03	SCB	TAL SL

Client Sample ID: CELL19-SQUARE62-S-2-3-200806
Lab Sample ID: 600-209486-3

Date Collected: 08/06/20 15:39
Matrix: Solid
Date Received: 08/07/20 09:20
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.80 g	5 mL	300714	08/08/20 10:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	300707	08/08/20 14:50	WS1	TAL HOU
Total/NA	Prep	3546			15.06 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301300	08/17/20 14:02	TTD	TAL HOU
Total/NA	Prep	3546			15.59 g	1 mL	500496	08/17/20 09:48	SHB	TAL PEN
Total/NA	Analysis	8270D		1			500677	08/18/20 18:09	PP1	TAL PEN
Total/NA	Prep	5030B			10.68 g	10 mL	300708	08/08/20 07:14	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	300709	08/08/20 13:31	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL19-SQUARE62-S-2-3-200806 **Lab Sample ID: 600-209486-3**
Date Collected: 08/06/20 15:39 **Matrix: Solid**
Date Received: 08/07/20 09:20 **Percent Solids: 88.8**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10.05 g	1.0 mL	300806	08/10/20 15:56	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/13/20 18:38	RJV	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8081A		1			300913	08/12/20 00:08	JAL	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 08:51	SMB	TAL HOU
Total/NA	Analysis	8082		1			300977	08/12/20 17:47	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:30	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:30	W1N	TAL HOU
Total/NA	Prep	6860			10.21 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:38	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.293 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:40	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5486 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		20			479582	08/14/20 20:02	FLC	TAL SL
Total/NA	Prep	3050B			0.5486 g	50 mL	479336	08/13/20 11:03	CJJ	TAL SL
Total/NA	Analysis	6020		50			481698	09/04/20 17:35	DAS	TAL SL
Total/NA	Prep	7471B			0.62 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:52	DCL	TAL HOU
Total/NA	Prep	9012B			0.550 g	6.0 mL	301619	08/19/20 16:06	AML	TAL HOU
Total/NA	Analysis	9012B		1			301634	08/19/20 22:21	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301626	08/19/20 16:29	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301633	08/19/20 20:46	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Houston

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209486-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209486-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	09-13-20
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	09-14-20
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
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Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 619 8518798	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): Std		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)
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 #: 60012538		
Site: Jal LandFarm	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)	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:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell 18 - Square 176 - S-2-3-200806	8/06/20	1435	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 18 - Square 154 - S-2-3-200806	8/06/20	1505	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 19 - Square 62 - S-2-3-200806	8/06/20	1539	G	Solid			/	/	/	/	/	/	/	1/1	/	/	/	/	/	11	
Temp Blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

8/06/20 9/5

600-209486 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		8/06/20 1700	Arcadis		8/7/20 920	EDA
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

Eurofins TestAmerica Houston

Loc: 600
209486

eurofins | Environment Testing TestAmerica

Sample Receipt Checklist

2020 AUG 7 9:20

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: JR CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (℃)	Therm ID	Therm CF	Corrected Temp (℃)
3190	Y / N	Y / N	2.9	680	+0.1	3.0
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/7/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/7/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209486-1
Address: 13715 Rider Trail North, .	Due Date Requested: 8/19/2020			
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 #: 60012538			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL18-SQUARE176-S-2-3-200806 (600-209486-1)	8/6/20	14:35 Central		Solid			X	X	X	3	
CELL18-SQUARE154-S-2-3-200806 (600-209486-2)	8/6/20	15:05 Central		Solid			X	X	X	2	-3 recd @ ETASTL
CELL19-SQUARE62-S-2-3-200806 (600-209486-3)	8/6/20	15:39 Central		Solid			X	X	X	3	

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 TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/10/20 13:00	ETA	FE		
2	FE			[signature]	8/11/20 9:18	ETASTL
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45917.1
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 #: 600-209486-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/25/2020			
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 #: 60012538			
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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL18-SQUARE176-S-2-3-200806 (600-209486-1)	8/6/20	14:35 Central		Solid			X	X	X	3	
CELL18-SQUARE154-S-2-3-200806 (600-209486-2)	8/6/20	15:05 Central		Solid			X	X	X	3	
CELL19-SQUARE62-S-2-3-200806 (600-209486-3)	8/6/20	15:39 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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
Sandra Jones	8/10/20 13:00	ETA	D [illegible]	8-11-20 0915	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:
		5.6, 1.9, IR10, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45918.1
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 #: 600-209486-1
Address: 3355 McLemore Drive.	Due Date Requested: 8/25/2020			
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 #: 60012538			
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)	8270D_AgChem/3546 (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CELL18-SQUARE176-S-2-3-200806 (600-209486-1)	8/6/20	14:35 Central		Solid			X	1	
CELL18-SQUARE154-S-2-3-200806 (600-209486-2)	8/6/20	15:05 Central		Solid			X	1	
CELL19-SQUARE62-S-2-3-200806 (600-209486-3)	8/6/20	15:39 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
Sandra Flores	8/10/20 13:00	EOG			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				8-12-20 0920	TAEN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		6.5°C IR-7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209486-1

Login Number: 209486 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	3.0
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.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209486-1

Login Number: 209486 **List Source: Eurofins TestAmerica, Denver**
List Number: 3 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209486-1

Login Number: 209486
List Number: 4
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209486-1

Login Number: 209486
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/11/20 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-209488-1
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:
9/15/2020 10:48:24 AM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 600-209488-1

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Job ID: 600-209488-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-209488-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2020 10:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 600-301050 contained Chloroform 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.

GC/MS Semi VOA
Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301300 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301300/3).

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 600-300979 and analytical batch 600-301300 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 600-301390/2).

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301390 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301390/3).

Method 8270C LL: The method blank for preparation batch 600-301327 and analytical batch 600-301390 contained Di (2-ethylhexyl)phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 600-301327 and analytical batch 600-301390 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 8270C LL: The continuing calibration verification (CCV) associated with batch 600-301550 recovered above the upper control limit for Thiophene, tetrahydro-, 1,1-dioxide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 600-301550/3).

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.

RAD
Method GA-01-R: Gamma Prep Batch 160-479981

Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

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.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2), CELL21-SQUARE61-S-2-3-200807 (600-209488-3), (600-209483-G-1-B) and (600-209483-G-1-C DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-481632 and analytical batch 160-481844 were outside control limits for Antimony. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: Due to the high concentration of Barium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-481632 and analytical batch 160-481844 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (600-209488-G-1-B MS ^20) and (600-209488-G-1-C MSD ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The post digestion spike % recovery for Barium was outside of control limits due to high concentrations of target analytes in the native sample (600-209488-G-1-A PDS ^20)

Method 6020: preparation batch 160-481632 and analytical batch 160-481844
The following samples were diluted due to the abundance of non-target analytes: CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2), CELL21-SQUARE61-S-2-3-200807 (600-209488-3), (600-209488-G-1-B MS ^20), (600-209488-G-1-C MSD ^20), (600-209488-G-1-A PDS ^20) and (600-209488-G-1-A SD ^100). Elevated reporting limits (RLs) are provided.

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Case Narrative

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1 (Continued)

Laboratory: Eurofins TestAmerica, Houston (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Industrial Hygiene
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Methods Increment, prep: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: As per client/PM request, the subsampling procedure was not performed on these samples.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B.

Methods Increment, prep: The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3). This material was removed and not extracted. The material removed is described in the aliquot spreadsheet.

In preparation batch 280-505294 by ISM_DD_SI_SS for 8330B_Sonc_10g / 8330B

Method PFC leach: The following samples were full of rocks and gravel. Aliquoting 10g of soil material was difficult.

CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

preparation batch 280-505864

PFC_Leach / PFC

Method PFC leach: The following samples required 2mL of 2.4M HCl to bring the pH below 7. CELL20-SQUARE154-S-2-3-200807 (600-209488-1), CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3)

preparation batch 280-505864

PFC_Leach / PFC

Method 3546: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: CELL21-SQUARE21-S-2-3-200807 (600-209488-2) and CELL21-SQUARE61-S-2-3-200807 (600-209488-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL HOU
8270D	Pesticides by GC/MS	SW846	TAL PEN
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	TAL DEN
6860	Perchlorate by IC/MS or IC/MS/MS	EPA	TAL DEN
DV-LC-0012	Fluorinated Alkyl Substances	TAL-DEN	TAL DEN
6020	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL HOU
2540 C-1997	Total Dissolved Solids (Dried at 180 °C)	SM	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
9012B	Cyanide, Total andor Amenable	SW846	TAL HOU
9045D	pH	SW846	TAL HOU
9066	Phenolics (Colorimetric, 4-AAP with Distillation)	SW846	TAL HOU
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
335.521	TCEQ- 7-Day Distilled Water Leachate Extraction	TAC-30	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
3546	Microwave Extraction	SW846	TAL PEN
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
6860	Deionized Water Leach Prep	SW846	TAL DEN
7471B	Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique)/Preparation	SW846	TAL HOU
8330B	Sonication Extraction (Explosives)	SW846	TAL DEN
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	TAL DEN
PFC leach	Leaching procedure for PFAS	TAL-DEN	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"
SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
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.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Houston

Released to Imaging: 5/25/2022 8:55:33 AM

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Solid	08/07/20 13:55	08/08/20 10:05	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Solid	08/07/20 14:24	08/08/20 10:05	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Solid	08/07/20 14:55	08/08/20 10:05	

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE154-S-2-3-200807 **Lab Sample ID: 600-209488-1**
Date Collected: 08/07/20 13:55 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.2**

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.04	U	12.3	2.04	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Vinyl chloride	1.10	U	12.3	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Bromomethane	1.02	U	12.3	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Trichlorofluoromethane	0.810	U	12.3	0.810	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Acrolein	7.65	U	30.7	7.65	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloroethene	1.50	U	6.14	1.50	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
trans-1,2-Dichloroethene	1.40	U	6.14	1.40	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Methyl tert-butyl ether	2.25	U	6.14	2.25	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Methylene Chloride	2.69	U	12.3	2.69	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Acrylonitrile	7.14	U	61.4	7.14	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
cis-1,2-Dichloroethene	1.02	U	6.14	1.02	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Carbon tetrachloride	1.39	U	6.14	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Benzene	0.773	U	6.14	0.773	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichloroethane	1.10	U	6.14	1.10	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Trichloroethene	1.72	U	6.14	1.72	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1,1-Trichloroethane	0.908	U	6.14	0.908	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloroethane	1.07	U	6.14	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichloropropane	0.872	U	6.14	0.872	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,4-Dioxane	76.2	U	614	76.2	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Chloroform	**2.37**	**J b**	12.3	0.810	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Bromodichloromethane	0.810	U	6.14	0.810	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1-Dichloropropene	0.798	U	6.14	0.798	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
cis-1,3-Dichloropropene	0.663	U	6.14	0.663	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Toluene	1.69	U	6.14	1.69	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
trans-1,3-Dichloropropene	0.712	U	6.14	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1,2-Trichloroethane	0.896	U	6.14	0.896	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Tetrachloroethene	0.872	U	6.14	0.872	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,3-Dichloropropene, Total	0.712	U	6.14	0.712	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,2-Dibromoethane	1.25	U	6.14	1.25	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Monochlorobenzene	1.18	U	6.14	1.18	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Ethylbenzene	1.25	U	6.14	1.25	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Xylenes, Total	1.39	U	6.14	1.39	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Styrene	0.872	U	6.14	0.872	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Tribromomethane	1.68	U	6.14	1.68	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,1,2,2-Tetrachloroethane	1.07	U	6.14	1.07	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,4-Dichlorobenzene	0.810	U	6.14	0.810	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,2-Dichlorobenzene	0.982	U	6.14	0.982	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
1,2,4-Trichlorobenzene	2.42	U	6.14	2.42	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1
Dichlorodifluoromethane	1.89	U	6.14	1.89	ug/Kg	☼	08/12/20 11:03	08/13/20 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*	*08/12/20 11:03*	*08/13/20 12:47*	*1*
Dibromofluoromethane	*88*		*68 - 140*	*08/12/20 11:03*	*08/13/20 12:47*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*08/12/20 11:03*	*08/13/20 12:47*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*08/12/20 11:03*	*08/13/20 12:47*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.73	U	37.6	4.73	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodiethylamine	8.11	U	37.6	8.11	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Date Collected: 08/07/20 13:55
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-1
Matrix: Solid
Percent Solids: 88.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	1.86	U	37.6	1.86	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Hexachloroethane	2.61	U	37.6	2.61	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosopyrrolidine	5.27	U	37.6	5.27	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Nitrobenzene	3.34	U	37.6	3.34	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Isophorone	1.13	U	37.6	1.13	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2,4-Dichlorophenol	4.37	U	37.6	4.37	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Naphthalene	1.52	U	37.6	1.52	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Hexachlorobutadiene	2.17	U	37.6	2.17	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodi-n-butylamine	18.8	U	37.6	18.8	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2-Methylnaphthalene	3.09	U	37.6	3.09	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
1-Methylnaphthalene	1.77	U	37.6	1.77	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
1,2,4,5-Tetrachlorobenzene	7.62	U	37.6	7.62	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Hexachlorocyclopentadiene	5.20	U	37.6	5.20	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2,4,6-Trichlorophenol	3.03	U	37.6	3.03	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2,4,5-Trichlorophenol	11.3	U	37.6	11.3	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dimethyl phthalate	5.52	U	75.3	5.52	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Acenaphthylene	1.13	U	37.6	1.13	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2,6-Dinitrotoluene	3.33	U	37.6	3.33	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Acenaphthene	1.63	U	37.6	1.63	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dinitrophenols	5.33	U	113	5.33	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Pentachlorobenzene	4.53	U	37.6	4.53	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
2,4-Dinitrotoluene	4.08	U	37.6	4.08	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Diethyl phthalate	9.52	U	75.3	9.52	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Fluorene	2.66	U	37.6	2.66	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dinitro-o-cresol	5.62	U	192	5.62	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
N-Nitrosodiphenylamine	2.13	U	37.6	2.13	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Diphenylhydrazine, 1,2-	1.83	U	37.6	1.83	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Hexachlorobenzene	1.72	U	37.6	1.72	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Atrazine	5.67	U	37.6	5.67	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Pentachlorophenol	4.52	U	189	4.52	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Phenanthrene	5.59	U	37.6	5.59	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Anthracene	1.45	U	37.6	1.45	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dibutylphthalate	**10.8**	**J**	75.3	2.92	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Fluoranthene	3.51	U	37.6	3.51	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzidine	10.2	U	373	10.2	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Pyrene	2.07	U	37.6	2.07	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dichlorobenzidine, 3,3'-	11.5	U	37.6	11.5	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzo[a]anthracene	1.56	U	37.6	1.56	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Di (2-ethylhexyl)phthalate	**25.8**	**J b**	37.6	6.06	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Chrysene	1.15	U	37.6	1.15	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzo[b]fluoranthene	1.94	U	37.6	1.94	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzo[k]fluoranthene	1.68	U	37.6	1.68	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzo[a]pyrene	1.82	U	37.6	1.82	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Indeno[1,2,3-cd]pyrene	3.95	U	37.6	3.95	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Dibenz(a,h)anthracene	4.10	U	37.6	4.10	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Benzo[g,h,i]perylene	5.72	U	37.6	5.72	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
bis (2-chloroisopropyl) ether	9.98	U	37.6	9.98	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1
Thiophene, tetrahydro-, 1,1-dioxide	18.8	U	37.6	18.8	ug/Kg	☼	08/17/20 09:22	08/18/20 00:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Date Collected: 08/07/20 13:55
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-1

Matrix: Solid
Percent Solids: 88.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*10 - 148*	*08/17/20 09:22*	*08/18/20 00:07*	*1*
2-Fluorobiphenyl	*68*		*38 - 130*	*08/17/20 09:22*	*08/18/20 00:07*	*1*
2-Fluorophenol	*65*		*25 - 132*	*08/17/20 09:22*	*08/18/20 00:07*	*1*
Nitrobenzene-d5	*66*		*10 - 155*	*08/17/20 09:22*	*08/18/20 00:07*	*1*
Terphenyl-d14	*95*		*53 - 134*	*08/17/20 09:22*	*08/18/20 00:07*	*1*
Phenol-d5 (Surr)	*66*		*27 - 130*	*08/17/20 09:22*	*08/18/20 00:07*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.5	U	74.2	13.5	ug/Kg	☼	08/18/20 13:26	08/20/20 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*72*		*30 - 164*	*08/18/20 13:26*	*08/20/20 18:29*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**0.940**	**J**	1.10	0.647	mg/Kg	☼	08/08/20 15:03	08/13/20 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*70 - 130*	*08/08/20 15:03*	*08/13/20 11:37*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.94	U	5.66	1.94	mg/Kg	☼	08/13/20 07:17	08/15/20 11:36	1
C28-C36	5.66	U	5.66	5.66	mg/Kg	☼	08/13/20 07:17	08/15/20 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*130*		*60 - 140*	*08/13/20 07:17*	*08/15/20 11:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.48	U	1.92	1.48	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, beta-	1.15	U	1.92	1.15	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, delta-	0.958	U	1.92	0.958	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, alpha-	1.13	U	1.92	1.13	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Hexachlorocyclohexane, gamma-	1.05	U	1.92	1.05	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Chlordane (technical)	26.4	U	84.6	26.4	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
DDT	2.09	U	3.72	2.09	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Dieldrin	1.57	U	3.72	1.57	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan I	1.13	U	1.92	1.13	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan II	1.70	U	3.72	1.70	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endosulfan sulfate	1.89	U	3.72	1.89	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endrin	1.73	U	3.72	1.73	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Endrin aldehyde	1.76	U	3.72	1.76	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Heptachlor	1.05	U	1.92	1.05	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Heptachlor epoxide	1.32	U	1.92	1.32	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1
Toxaphene	82.4	U	192	82.4	ug/Kg	☼	08/18/20 05:27	08/24/20 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*47 - 150*	*08/18/20 05:27*	*08/24/20 14:08*	*1*
Tetrachloro-m-xylene	*73*		*50 - 143*	*08/18/20 05:27*	*08/24/20 14:08*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL20-SQUARE154-S-2-3-200807

Lab Sample ID: 600-209488-1
Date Collected: 08/07/20 13:55
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 88.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00180	U	0.0188	0.00180	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1221	0.00973	U	0.0188	0.00973	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1232	0.00755	U	0.0188	0.00755	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1242	0.00140	U	0.0188	0.00140	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1248	0.00281	U	0.0188	0.00281	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1254	0.00249	U	0.0188	0.00249	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1
PCB-1260	0.0152	U	0.0188	0.0152	mg/Kg	☼	08/18/20 05:27	08/19/20 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*10 - 150*	*08/18/20 05:27*	*08/19/20 14:50*	*1*
DCB Decachlorobiphenyl	*90*		*10 - 150*	*08/18/20 05:27*	*08/19/20 14:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.6**		4.54	0.606	mg/Kg	☼		08/11/20 21:50	1
Nitrate as N	**12.5**		2.27	0.285	mg/Kg	☼		08/11/20 21:50	1
Fluoride	**7.56**		2.27	0.682	mg/Kg	☼		08/11/20 21:50	1
Nitrite as N	0.337	U	2.27	0.337	mg/Kg	☼		08/11/20 21:50	1
Sulfate	**270**		5.67	1.09	mg/Kg	☼		08/11/20 21:50	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		08/12/20 15:04	08/13/20 22:03	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0401	U	0.186	0.0401	mg/Kg		08/12/20 15:04	08/13/20 22:03	1
2,4,6-Trinitrotoluene	0.0286	U	0.0932	0.0286	mg/Kg		08/12/20 15:04	08/13/20 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*102*		*83 - 122*	*08/12/20 15:04*	*08/13/20 22:03*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	**0.396**	**J**	0.550	0.0907	ug/Kg	☼	08/12/20 11:00	08/20/20 15:43	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.851	0.245	ug/Kg	☼	08/17/20 14:49	08/24/20 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.851	0.298	ug/Kg	☼	08/17/20 14:49	08/24/20 13:49	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.851	0.149	ug/Kg	☼	08/17/20 14:49	08/24/20 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 13:49*	*1*
13C8 PFOS	*93*		*70 - 130*	*08/17/20 14:49*	*08/24/20 13:49*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.802	U	2.14	0.802	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Arsenic	**4.39**	**J**	10.7	4.28	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Barium	**477**		21.4	5.34	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Beryllium	0.428	U	1.07	0.428	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Cadmium	0.257	U	0.534	0.257	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Chromium	4.81	U	10.7	4.81	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE154-S-2-3-200807 Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 88.2

Method: 6020 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1170**		128	64.1	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Copper	4.28	U	10.7	4.28	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Manganese	**6.07**		5.34	2.14	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Lead	1.34	U	3.21	1.34	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Antimony	2.14	U	5.34	2.14	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Selenium	3.42	U	5.34	3.42	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Thallium	2.14	U	5.34	2.14	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Zinc	21.4	U	53.4	21.4	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20
Uranium	0.428	U	1.07	0.428	mg/Kg	☼	09/04/20 10:33	09/09/20 19:14	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00399	U	0.0190	0.00399	mg/Kg	☼	09/02/20 13:16	09/03/20 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**88.2**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0198	U	0.132	0.0198	mg/Kg	☼	08/20/20 13:55	08/20/20 17:42	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.473	U	0.564	0.473	mg/Kg	☼	08/20/20 12:06	08/20/20 15:58	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**165**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.620**		0.156	0.169	1.00	0.119	pCi/g	08/20/20 11:47	09/12/20 11:07	1
Radium-228	-0.0659	U	0.265	0.265		0.405	pCi/g	08/20/20 11:47	09/12/20 11:07	1
Combined Radium 226 + 228	**0.554**		0.308	0.314		0.405	pCi/g	08/20/20 11:47	09/12/20 11:07	1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807 Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24 Matrix: Solid
Date Received: 08/08/20 10:05 Percent Solids: 91.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.87	U	11.3	1.87	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Vinyl chloride	1.01	U	11.3	1.01	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Bromomethane	0.935	U	11.3	0.935	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Trichlorofluoromethane	0.744	U	11.3	0.744	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Acrolein	7.02	U	28.2	7.02	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloroethene	1.38	U	5.64	1.38	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
trans-1,2-Dichloroethene	1.28	U	5.64	1.28	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Methyl tert-butyl ether	2.06	U	5.64	2.06	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Methylene Chloride	**3.16**	**J**	11.3	2.47	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Acrylonitrile	6.56	U	56.4	6.56	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Date Collected: 08/07/20 14:24
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-2
Matrix: Solid
Percent Solids: 91.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.935	U	5.64	0.935	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Carbon tetrachloride	1.27	U	5.64	1.27	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Benzene	**0.999**	**J**	5.64	0.710	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichloroethane	1.01	U	5.64	1.01	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Trichloroethene	1.58	U	5.64	1.58	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1,1-Trichloroethane	0.834	U	5.64	0.834	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloroethane	0.981	U	5.64	0.981	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichloropropane	0.800	U	5.64	0.800	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,4-Dioxane	70.0	U	564	70.0	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Chloroform	**2.23**	**J b**	11.3	0.744	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Bromodichloromethane	0.744	U	5.64	0.744	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1-Dichloropropene	0.733	U	5.64	0.733	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
cis-1,3-Dichloropropene	0.609	U	5.64	0.609	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Toluene	1.56	U	5.64	1.56	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
trans-1,3-Dichloropropene	0.654	U	5.64	0.654	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1,2-Trichloroethane	0.823	U	5.64	0.823	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Tetrachloroethene	0.800	U	5.64	0.800	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,3-Dichloropropene, Total	0.654	U	5.64	0.654	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,2-Dibromoethane	1.15	U	5.64	1.15	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Monochlorobenzene	1.08	U	5.64	1.08	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Ethylbenzene	1.15	U	5.64	1.15	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Xylenes, Total	1.27	U	5.64	1.27	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Styrene	0.800	U	5.64	0.800	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Tribromomethane	1.54	U	5.64	1.54	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,1,2,2-Tetrachloroethane	0.981	U	5.64	0.981	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,4-Dichlorobenzene	0.744	U	5.64	0.744	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,2-Dichlorobenzene	0.902	U	5.64	0.902	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
1,2,4-Trichlorobenzene	2.22	U	5.64	2.22	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1
Dichlorodifluoromethane	1.74	U	5.64	1.74	ug/Kg	☼	08/12/20 11:03	08/13/20 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 130*	*08/12/20 11:03*	*08/13/20 13:11*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*08/12/20 11:03*	*08/13/20 13:11*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*08/12/20 11:03*	*08/13/20 13:11*	*1*
4-Bromofluorobenzene	*107*		*57 - 140*	*08/12/20 11:03*	*08/13/20 13:11*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.56	U	36.2	4.56	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodiethylamine	7.81	U	36.2	7.81	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Bis(2-chloroethyl)ether	1.80	U	36.2	1.80	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Hexachloroethane	2.51	U	36.2	2.51	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosopyrrolidine	5.08	U	36.2	5.08	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Nitrobenzene	3.22	U	36.2	3.22	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Isophorone	1.09	U	36.2	1.09	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2,4-Dichlorophenol	4.21	U	36.2	4.21	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Naphthalene	1.47	U	36.2	1.47	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Hexachlorobutadiene	2.09	U	36.2	2.09	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodi-n-butylamine	18.1	U	36.2	18.1	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2-Methylnaphthalene	2.98	U	36.2	2.98	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Date Collected: 08/07/20 14:24
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-2
Matrix: Solid
Percent Solids: 91.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	1.71	U	36.2	1.71	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
1,2,4,5-Tetrachlorobenzene	7.35	U	36.2	7.35	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Hexachlorocyclopentadiene	5.02	U	36.2	5.02	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2,4,6-Trichlorophenol	2.92	U	36.2	2.92	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2,4,5-Trichlorophenol	10.9	U	36.2	10.9	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dimethyl phthalate	5.32	U	72.6	5.32	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Acenaphthylene	1.09	U	36.2	1.09	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2,6-Dinitrotoluene	3.21	U	36.2	3.21	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Acenaphthene	1.57	U	36.2	1.57	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dinitrophenols	5.14	U	109	5.14	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Pentachlorobenzene	4.36	U	36.2	4.36	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
2,4-Dinitrotoluene	3.93	U	36.2	3.93	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Diethyl phthalate	9.17	U	72.6	9.17	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Fluorene	2.57	U	36.2	2.57	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dinitro-o-cresol	5.42	U	185	5.42	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
N-Nitrosodiphenylamine	2.06	U	36.2	2.06	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Diphenylhydrazine, 1,2-	1.76	U	36.2	1.76	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Hexachlorobenzene	1.65	U	36.2	1.65	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Atrazine	5.46	U	36.2	5.46	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Pentachlorophenol	4.35	U	182	4.35	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Phenanthrene	5.39	U	36.2	5.39	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Anthracene	1.39	U	36.2	1.39	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dibutylphthalate	2.82	U	72.6	2.82	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Fluoranthene	3.38	U	36.2	3.38	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzidine	9.82	U	359	9.82	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Pyrene	1.99	U	36.2	1.99	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dichlorobenzidine, 3,3'-	11.1	U	36.2	11.1	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzo[a]anthracene	1.50	U	36.2	1.50	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Di (2-ethylhexyl)phthalate	**17.2**	**J**	36.2	5.84	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Chrysene	1.11	U	36.2	1.11	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzo[b]fluoranthene	1.87	U	36.2	1.87	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzo[k]fluoranthene	1.62	U	36.2	1.62	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzo[a]pyrene	1.75	U	36.2	1.75	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Indeno[1,2,3-cd]pyrene	3.81	U	36.2	3.81	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Dibenz(a,h)anthracene	3.95	U	36.2	3.95	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Benzo[g,h,i]perylene	5.52	U	36.2	5.52	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
bis (2-chloroisopropyl) ether	9.62	U	36.2	9.62	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1
Thiophene, tetrahydro-, 1,1-dioxide	18.1	U	36.2	18.1	ug/Kg	☼	08/12/20 11:16	08/17/20 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*10 - 148*	*08/12/20 11:16*	*08/17/20 20:28*	*1*
2-Fluorobiphenyl	*81*		*38 - 130*	*08/12/20 11:16*	*08/17/20 20:28*	*1*
2-Fluorophenol	*77*		*25 - 132*	*08/12/20 11:16*	*08/17/20 20:28*	*1*
Nitrobenzene-d5	*77*		*10 - 155*	*08/12/20 11:16*	*08/17/20 20:28*	*1*
Terphenyl-d14	*102*		*53 - 134*	*08/12/20 11:16*	*08/17/20 20:28*	*1*
Phenol-d5 (Surr)	*65*		*27 - 130*	*08/12/20 11:16*	*08/17/20 20:28*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.0	U	71.7	13.0	ug/Kg	☼	08/18/20 13:26	08/20/20 18:54	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Date Collected: 08/07/20 14:24
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-2

Matrix: Solid
Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenylphosphate	*56*		*30 - 164*	*08/18/20 13:26*	*08/20/20 18:54*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.688	U	1.17	0.688	mg/Kg	☼	08/08/20 15:03	08/13/20 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*08/08/20 15:03*	*08/13/20 12:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.79	U	8.15	2.79	mg/Kg	☼	08/10/20 15:59	08/14/20 00:12	1
C28-C36	8.15	U	8.15	8.15	mg/Kg	☼	08/10/20 15:59	08/14/20 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*75*		*60 - 140*	*08/10/20 15:59*	*08/14/20 00:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.43	U	1.85	1.43	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, beta-	1.11	U	1.85	1.11	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, delta-	0.926	U	1.85	0.926	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, alpha-	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Hexachlorocyclohexane, gamma-	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Chlordane (technical)	25.5	U	81.7	25.5	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
DDT	2.01	U	3.59	2.01	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Dieldrin	1.51	U	3.59	1.51	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Endosulfan I	1.09	U	1.85	1.09	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Endosulfan II	1.64	U	3.59	1.64	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Endosulfan sulfate	1.83	U	3.59	1.83	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Endrin	1.67	U	3.59	1.67	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Endrin aldehyde	1.70	U	3.59	1.70	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Heptachlor	1.01	U	1.85	1.01	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Heptachlor epoxide	1.27	U	1.85	1.27	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1
Toxaphene	79.6	U	185	79.6	ug/Kg	☼	08/11/20 09:01	08/13/20 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*80*		*47 - 150*	*08/11/20 09:01*	*08/13/20 14:12*	*1*
Tetrachloro-m-xylene	*86*		*50 - 143*	*08/11/20 09:01*	*08/13/20 14:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00174	U	0.0182	0.00174	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1221	0.00940	U	0.0182	0.00940	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1232	0.00730	U	0.0182	0.00730	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1242	0.00135	U	0.0182	0.00135	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1248	0.00271	U	0.0182	0.00271	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1254	0.00241	U	0.0182	0.00241	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1
PCB-1260	0.0147	U	0.0182	0.0147	mg/Kg	☼	08/11/20 09:01	08/13/20 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*93*		*10 - 150*	*08/11/20 09:01*	*08/13/20 14:38*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Date Collected: 08/07/20 14:24
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-2
Matrix: Solid
Percent Solids: 91.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		10 - 150	08/11/20 09:01	08/13/20 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.14**	**J**	4.37	0.584	mg/Kg	☼		08/11/20 22:11	1
Nitrate as N	**7.27**		2.19	0.274	mg/Kg	☼		08/11/20 22:11	1
Fluoride	**10.1**		2.19	0.657	mg/Kg	☼		08/11/20 22:11	1
Nitrite as N	0.325	U	2.19	0.325	mg/Kg	☼		08/11/20 22:11	1
Sulfate	**47.3**		5.47	1.05	mg/Kg	☼		08/11/20 22:11	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	0.0989	0.0225	mg/Kg		08/12/20 15:04	08/13/20 22:26	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0425	U	0.198	0.0425	mg/Kg		08/12/20 15:04	08/13/20 22:26	1
2,4,6-Trinitrotoluene	0.0304	U	0.0989	0.0304	mg/Kg		08/12/20 15:04	08/13/20 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	101		83 - 122	08/12/20 15:04	08/13/20 22:26	1

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0878	U	0.533	0.0878	ug/Kg	☼	08/12/20 11:00	08/20/20 15:49	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.239	U	0.831	0.239	ug/Kg	☼	08/17/20 14:49	08/24/20 13:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.291	U	0.831	0.291	ug/Kg	☼	08/17/20 14:49	08/24/20 13:58	1
Perfluorooctanesulfonic acid (PFOS)	0.145	U	0.831	0.145	ug/Kg	☼	08/17/20 14:49	08/24/20 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		57 - 153	08/17/20 14:49	08/24/20 13:58	1
13C8 PFOS	98		70 - 130	08/17/20 14:49	08/24/20 13:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.805	U	2.15	0.805	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Arsenic	4.29	U	10.7	4.29	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Barium	**385**		21.5	5.36	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Beryllium	0.429	U	1.07	0.429	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Cadmium	0.257	U	0.536	0.257	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Chromium	4.83	U	10.7	4.83	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Iron	**2170**		129	64.4	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Copper	4.29	U	10.7	4.29	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Manganese	**17.4**		5.36	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Lead	1.34	U	3.22	1.34	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Antimony	2.15	U	5.36	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Selenium	3.43	U	5.36	3.43	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Thallium	2.15	U	5.36	2.15	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Zinc	21.5	U	53.6	21.5	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20
Uranium	0.429	U	1.07	0.429	mg/Kg	☼	09/04/20 10:33	09/09/20 19:31	20

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE21-S-2-3-200807

Lab Sample ID: 600-209488-2
Date Collected: 08/07/20 14:24
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 91.5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00350	U	0.0166	0.00350	mg/Kg	☼	09/02/20 13:16	09/03/20 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**91.5**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	☼	08/20/20 13:55	08/20/20 17:44	1
pH	**8.7**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.457	U	0.544	0.457	mg/Kg	☼	08/20/20 12:06	08/20/20 15:59	1

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**117**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.880**		0.165	0.189	1.00	0.0939	pCi/g	08/20/20 11:47	09/12/20 11:08	1
Radium-228	**0.220**		0.114	0.116		0.101	pCi/g	08/20/20 11:47	09/12/20 11:08	1
Combined Radium 226 + 228	**1.10**		0.201	0.222		0.101	pCi/g	08/20/20 11:47	09/12/20 11:08	1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3
Date Collected: 08/07/20 14:55
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.71	U	10.3	1.71	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Vinyl chloride	0.926	U	10.3	0.926	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Bromomethane	0.854	U	10.3	0.854	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Trichlorofluoromethane	0.679	U	10.3	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Acrolein	6.41	U	25.7	6.41	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloroethene	1.26	U	5.14	1.26	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
trans-1,2-Dichloroethene	1.17	U	5.14	1.17	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Methyl tert-butyl ether	1.88	U	5.14	1.88	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Methylene Chloride	**3.53**	**J**	10.3	2.25	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Acrylonitrile	5.99	U	51.4	5.99	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
cis-1,2-Dichloroethene	0.854	U	5.14	0.854	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Carbon tetrachloride	1.16	U	5.14	1.16	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Benzene	**2.15**	**J**	5.14	0.648	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichloroethane	0.926	U	5.14	0.926	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Trichloroethene	1.44	U	5.14	1.44	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1,1-Trichloroethane	0.761	U	5.14	0.761	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloroethane	0.895	U	5.14	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichloropropane	0.731	U	5.14	0.731	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,4-Dioxane	63.9	U	514	63.9	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Chloroform	**2.53**	**J b**	10.3	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Bromodichloromethane	0.679	U	5.14	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1-Dichloropropene	0.669	U	5.14	0.669	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE61-S-2-3-200807 **Lab Sample ID: 600-209488-3**
Date Collected: 08/07/20 14:55 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 90.3**

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.556	U	5.14	0.556	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Toluene	1.42	U	5.14	1.42	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
trans-1,3-Dichloropropene	0.597	U	5.14	0.597	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1,2-Trichloroethane	0.751	U	5.14	0.751	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Tetrachloroethene	0.731	U	5.14	0.731	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,3-Dichloropropene, Total	0.597	U	5.14	0.597	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,2-Dibromoethane	1.05	U	5.14	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Monochlorobenzene	0.988	U	5.14	0.988	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Styrene	0.731	U	5.14	0.731	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Tribromomethane	1.41	U	5.14	1.41	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,1,2,2-Tetrachloroethane	0.895	U	5.14	0.895	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,4-Dichlorobenzene	0.679	U	5.14	0.679	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,2-Dichlorobenzene	0.823	U	5.14	0.823	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
1,2,4-Trichlorobenzene	2.03	U	5.14	2.03	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1
Dichlorodifluoromethane	1.58	U	5.14	1.58	ug/Kg	☼	08/12/20 11:03	08/13/20 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 130*	*08/12/20 11:03*	*08/13/20 13:34*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*08/12/20 11:03*	*08/13/20 13:34*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*	*08/12/20 11:03*	*08/13/20 13:34*	*1*
4-Bromofluorobenzene	*110*		*57 - 140*	*08/12/20 11:03*	*08/13/20 13:34*	*1*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.63	U	36.8	4.63	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodiethylamine	7.93	U	36.8	7.93	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Bis(2-chloroethyl)ether	1.82	U	36.8	1.82	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Hexachloroethane	2.55	U	36.8	2.55	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosopyrrolidine	5.16	U	36.8	5.16	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Nitrobenzene	3.27	U	36.8	3.27	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Isophorone	1.10	U	36.8	1.10	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2,4-Dichlorophenol	4.28	U	36.8	4.28	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Naphthalene	1.49	U	36.8	1.49	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Hexachlorobutadiene	2.12	U	36.8	2.12	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodi-n-butylamine	18.4	U	36.8	18.4	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2-Methylnaphthalene	**5.82**	**J**	36.8	3.03	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
1-Methylnaphthalene	1.73	U	36.8	1.73	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
1,2,4,5-Tetrachlorobenzene	7.46	U	36.8	7.46	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Hexachlorocyclopentadiene	5.09	U	36.8	5.09	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2,4,6-Trichlorophenol	2.96	U	36.8	2.96	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2,4,5-Trichlorophenol	11.1	U	36.8	11.1	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dimethyl phthalate	5.40	U	73.7	5.40	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Acenaphthylene	1.10	U	36.8	1.10	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2,6-Dinitrotoluene	3.26	U	36.8	3.26	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Acenaphthene	1.59	U	36.8	1.59	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dinitrophenols	5.22	U	110	5.22	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Pentachlorobenzene	4.43	U	36.8	4.43	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
2,4-Dinitrotoluene	3.99	U	36.8	3.99	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807
Date Collected: 08/07/20 14:55
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-3
Matrix: Solid
Percent Solids: 90.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	9.31	U	73.7	9.31	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Fluorene	2.61	U	36.8	2.61	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dinitro-o-cresol	5.50	U	188	5.50	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
N-Nitrosodiphenylamine	2.09	U	36.8	2.09	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Diphenylhydrazine, 1,2-	1.79	U	36.8	1.79	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Hexachlorobenzene	1.68	U	36.8	1.68	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Atrazine	5.55	U	36.8	5.55	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Pentachlorophenol	4.42	U	185	4.42	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Phenanthrene	5.47	U	36.8	5.47	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Anthracene	1.41	U	36.8	1.41	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dibutylphthalate	2.86	U	73.7	2.86	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Fluoranthene	3.44	U	36.8	3.44	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzidine	9.97	U	365	9.97	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Pyrene	2.02	U	36.8	2.02	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dichlorobenzidine, 3,3'-	11.2	U	36.8	11.2	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzo[a]anthracene	1.52	U	36.8	1.52	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Di (2-ethylhexyl)phthalate	**24.1**	**J**	36.8	5.93	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Chrysene	1.13	U	36.8	1.13	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzo[b]fluoranthene	1.90	U	36.8	1.90	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzo[k]fluoranthene	1.65	U	36.8	1.65	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzo[a]pyrene	1.78	U	36.8	1.78	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Indeno[1,2,3-cd]pyrene	3.87	U	36.8	3.87	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Dibenz(a,h)anthracene	4.01	U	36.8	4.01	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Benzo[g,h,i]perylene	5.60	U	36.8	5.60	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
bis (2-chloroisopropyl) ether	9.77	U	36.8	9.77	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1
Thiophene, tetrahydro-, 1,1-dioxide	18.4	U	36.8	18.4	ug/Kg	☼	08/12/20 11:44	08/17/20 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*18*		*10 - 148*	*08/12/20 11:44*	*08/17/20 20:53*	*1*
2-Fluorobiphenyl	*80*		*38 - 130*	*08/12/20 11:44*	*08/17/20 20:53*	*1*
2-Fluorophenol	*78*		*25 - 132*	*08/12/20 11:44*	*08/17/20 20:53*	*1*
Nitrobenzene-d5	*77*		*10 - 155*	*08/12/20 11:44*	*08/17/20 20:53*	*1*
Terphenyl-d14	*103*		*53 - 134*	*08/12/20 11:44*	*08/17/20 20:53*	*1*
Phenol-d5 (Surr)	*77*		*27 - 130*	*08/12/20 11:44*	*08/17/20 20:53*	*1*

Method: 8270D - Pesticides by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	13.2	U	72.7	13.2	ug/Kg	☼	08/18/20 13:26	08/20/20 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*77*		*30 - 164*	*08/18/20 13:26*	*08/20/20 19:19*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.654	U	1.12	0.654	mg/Kg	☼	08/08/20 15:03	08/13/20 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*08/08/20 15:03*	*08/13/20 12:52*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Date Collected: 08/07/20 14:55
Date Received: 08/08/20 10:05

Lab Sample ID: 600-209488-3

Matrix: Solid
Percent Solids: 90.3

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.84	U	8.30	2.84	mg/Kg	☼	08/10/20 15:59	08/14/20 00:45	1
C28-C36	8.30	U	8.30	8.30	mg/Kg	☼	08/10/20 15:59	08/14/20 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*137*		*60 - 140*	*08/10/20 15:59*	*08/14/20 00:45*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.45	U	1.88	1.45	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, beta-	1.13	U	1.88	1.13	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, delta-	0.940	U	1.88	0.940	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, alpha-	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Hexachlorocyclohexane, gamma-	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Chlordane (technical)	25.9	U	82.9	25.9	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
DDT	2.05	U	3.65	2.05	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Dieldrin	1.54	U	3.65	1.54	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Endosulfan I	1.11	U	1.88	1.11	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Endosulfan II	1.67	U	3.65	1.67	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Endosulfan sulfate	1.86	U	3.65	1.86	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Endrin	1.69	U	3.65	1.69	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Endrin aldehyde	1.72	U	3.65	1.72	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Heptachlor	1.03	U	1.88	1.03	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Heptachlor epoxide	1.29	U	1.88	1.29	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1
Toxaphene	80.8	U	188	80.8	ug/Kg	☼	08/11/20 09:01	08/13/20 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*47 - 150*	*08/11/20 09:01*	*08/13/20 14:37*	*1*
Tetrachloro-m-xylene	*83*		*50 - 143*	*08/11/20 09:01*	*08/13/20 14:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00177	U	0.0185	0.00177	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1221	0.00954	U	0.0185	0.00954	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1232	0.00741	U	0.0185	0.00741	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1242	0.00137	U	0.0185	0.00137	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1248	0.00275	U	0.0185	0.00275	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1254	0.00244	U	0.0185	0.00244	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1
PCB-1260	0.0149	U	0.0185	0.0149	mg/Kg	☼	08/11/20 09:01	08/13/20 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*10 - 150*	*08/11/20 09:01*	*08/13/20 15:04*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 150*	*08/11/20 09:01*	*08/13/20 15:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.25**	**J**	4.43	0.591	mg/Kg	☼		08/11/20 23:12	1
Nitrate as N	**8.92**		2.21	0.278	mg/Kg	☼		08/11/20 23:12	1
Fluoride	**7.59**		2.21	0.666	mg/Kg	☼		08/11/20 23:12	1
Nitrite as N	0.329	U	2.21	0.329	mg/Kg	☼		08/11/20 23:12	1
Sulfate	**105**		5.54	1.06	mg/Kg	☼		08/11/20 23:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Client Sample ID: CELL21-SQUARE61-S-2-3-200807

Lab Sample ID: 600-209488-3
Date Collected: 08/07/20 14:55
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 90.3

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	0.0923	0.0209	mg/Kg		08/12/20 15:04	08/13/20 22:49	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0397	U	0.185	0.0397	mg/Kg		08/12/20 15:04	08/13/20 22:49	1
2,4,6-Trinitrotoluene	0.0283	U	0.0923	0.0283	mg/Kg		08/12/20 15:04	08/13/20 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*104*		*83 - 122*	*08/12/20 15:04*	*08/13/20 22:49*	*1*

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0873	U	0.530	0.0873	ug/Kg	☼	08/12/20 11:00	08/20/20 15:54	1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	0.245	U	0.852	0.245	ug/Kg	☼	08/17/20 14:49	08/24/20 14:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.298	U	0.852	0.298	ug/Kg	☼	08/17/20 14:49	08/24/20 14:06	1
Perfluorooctanesulfonic acid (PFOS)	0.149	U	0.852	0.149	ug/Kg	☼	08/17/20 14:49	08/24/20 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*102*		*57 - 153*	*08/17/20 14:49*	*08/24/20 14:06*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 14:06*	*1*

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.789	U	2.10	0.789	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Arsenic	4.21	U	10.5	4.21	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Barium	**806**		21.0	5.26	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Beryllium	0.421	U	1.05	0.421	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Cadmium	0.252	U	0.526	0.252	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Chromium	4.73	U	10.5	4.73	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Iron	**1910**		126	63.1	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Copper	4.21	U	10.5	4.21	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Manganese	**19.8**		5.26	2.10	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Lead	1.31	U	3.15	1.31	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Antimony	2.10	U	5.26	2.10	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Selenium	3.37	U	5.26	3.37	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Thallium	2.10	U	5.26	2.10	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Zinc	21.0	U	52.6	21.0	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20
Uranium	0.421	U	1.05	0.421	mg/Kg	☼	09/04/20 10:33	09/09/20 19:34	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00372	U	0.0176	0.00372	mg/Kg	☼	09/02/20 13:16	09/03/20 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		1.0	1.0	%			08/12/20 07:56	1
Percent Solids	**90.3**		1.0	1.0	%			08/12/20 07:56	1
Cyanide, Total	0.0194	U	0.129	0.0194	mg/Kg	☼	08/20/20 13:55	08/20/20 17:45	1
pH	**8.9**	**H**	0.01	0.01	SU			08/25/20 13:54	1
Phenols, Total	0.464	U	0.554	0.464	mg/Kg	☼	08/20/20 12:06	08/20/20 16:00	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE61-S-2-3-200807 **Lab Sample ID: 600-209488-3**
Date Collected: 08/07/20 14:55 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 90.3**

General Chemistry - 7 Day Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**105**		10.0	10.0	mg/L			08/17/20 11:57	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	**0.966**		0.163	0.190	1.00	0.0487	pCi/g	08/20/20 11:47	09/12/20 11:04	1
Radium-228	0.0582	U	0.113	0.113		0.246	pCi/g	08/20/20 11:47	09/12/20 11:04	1
Combined Radium 226 + 228	**1.02**		0.198	0.221		0.246	pCi/g	08/20/20 11:47	09/12/20 11:04	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC/MS Semi VOA

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
E	Result is greater then the UQL and the concentration is an estimated value.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
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.

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
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.
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

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	99	88	93	107
600-209488-2	CELL21-SQUARE21-S-2-3-200807	102	87	86	107
600-209488-3	CELL21-SQUARE61-S-2-3-200807	101	89	94	110
LCS 600-301050/3	Lab Control Sample	86	87	97	112
LCSD 600-301050/4	Lab Control Sample Dup	80	82	92	103
MB 600-301050/6	Method Blank	103	90	94	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHL	PHL
Lab Sample ID	Client Sample ID	(10-148)	(38-130)	(25-132)	(10-155)	(53-134)	(27-130)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	72	68	65	66	95	66
600-209488-2	CELL21-SQUARE21-S-2-3-200807	64	81	77	77	102	65
600-209488-3	CELL21-SQUARE61-S-2-3-200807	18	80	78	77	103	77
LCS 600-300979/24-A	Lab Control Sample	99	95	87	91	116	89
LCS 600-300979/25-A	Lab Control Sample	56	85	73	84	109	79
LCS 600-300979/2-A	Lab Control Sample	100	98	91	95	112	93
LCS 600-301327/12-A	Lab Control Sample	70	85	78	80	105	76
LCS 600-301327/2-A	Lab Control Sample	86	90	83	87	104	83
LCS 600-301327/3-A	Lab Control Sample	85	88	84	84	104	77
MB 600-300979/1-A	Method Blank	76	90	84	89	113	84
MB 600-301327/1-A	Method Blank	51	89	88	88	105	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
PHL = Phenol-d5 (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)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	72
600-209488-2	CELL21-SQUARE21-S-2-3-200807	56

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
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)
600-209488-3	CELL21-SQUARE61-S-2-3-200	77
LCS 400-500724/2-A	Lab Control Sample	87
MB 400-500724/1-A	Method Blank	75

Surrogate Legend

TPP = Triphenylphosphate

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	88
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	99
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	101

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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	(60-140)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	130
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	75
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	137
LCS 600-300806/2-A	Lab Control Sample	131
LCS 600-301059/2-A	Lab Control Sample	71
LCSD 600-300806/3-A	Lab Control Sample Dup	131
LCSD 600-301059/3-A	Lab Control Sample Dup	76
MB 600-300806/1-A	Method Blank	125
MB 600-301059/1-A	Method Blank	99

Surrogate Legend

OTPH = o-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(47-150)	(50-143)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	79	73
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	80	86
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	72	83

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (47-150)	TCX1 (50-143)
LCS 600-300862/2-A	Lab Control Sample	76	74
LCS 600-301410/2-A	Lab Control Sample	86	72
LCSD 600-300862/3-A	Lab Control Sample Dup	104	89
LCSD 600-301410/3-A	Lab Control Sample Dup	78	64
MB 600-300862/1-A	Method Blank	127	116
MB 600-301410/1-A	Method Blank	93	67

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (10-150)	DCBP1 (10-150)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	77	90
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	93	110
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	96	101
LCS 600-301410/4-A	Lab Control Sample	83	92
LCSD 600-301410/5-A	Lab Control Sample Dup	98	127
MB 600-301410/1-A	Method Blank	81	116

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	102
600-209488-2	CELL21-SQUARE21-S-2-3-200 807	101
600-209488-3	CELL21-SQUARE61-S-2-3-200 807	104
LCS 280-505436/2-A	Lab Control Sample	106
MB 280-505436/1-A	Method Blank	102

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)
600-209488-1	CELL20-SQUARE154-S-2-3-20(	104	93

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
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)								
600-209488-2	CELL21-SQUARE21-S-2-3-200	103	98								
600-209488-3	CELL21-SQUARE61-S-2-3-200807	102	94								
DLCK 280-500633/14	Lab Control Sample	108	91								
LCS 280-505864/2-A	Lab Control Sample	101	98								
MB 280-505864/1-A	Method Blank	104	94								

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: 600-209488-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-301050/6
Matrix: Solid
Analysis Batch: 301050

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.66	U	10.0	1.66	ug/Kg			08/13/20 09:16	1
Vinyl chloride	0.900	U	10.0	0.900	ug/Kg			08/13/20 09:16	1
Bromomethane	0.830	U	10.0	0.830	ug/Kg			08/13/20 09:16	1
Trichlorofluoromethane	0.660	U	10.0	0.660	ug/Kg			08/13/20 09:16	1
Acrolein	6.23	U	25.0	6.23	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethene	1.22	U	5.00	1.22	ug/Kg			08/13/20 09:16	1
trans-1,2-Dichloroethene	1.14	U	5.00	1.14	ug/Kg			08/13/20 09:16	1
Methyl tert-butyl ether	1.83	U	5.00	1.83	ug/Kg			08/13/20 09:16	1
Methylene Chloride	2.19	U	10.0	2.19	ug/Kg			08/13/20 09:16	1
Acrylonitrile	5.82	U	50.0	5.82	ug/Kg			08/13/20 09:16	1
cis-1,2-Dichloroethene	0.830	U	5.00	0.830	ug/Kg			08/13/20 09:16	1
Carbon tetrachloride	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Benzene	0.630	U	5.00	0.630	ug/Kg			08/13/20 09:16	1
1,2-Dichloroethane	0.900	U	5.00	0.900	ug/Kg			08/13/20 09:16	1
Trichloroethene	1.40	U	5.00	1.40	ug/Kg			08/13/20 09:16	1
1,1,1-Trichloroethane	0.740	U	5.00	0.740	ug/Kg			08/13/20 09:16	1
1,1-Dichloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,2-Dichloropropane	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,4-Dioxane	62.1	U	500	62.1	ug/Kg			08/13/20 09:16	1
Chloroform	1.495	J	10.0	0.660	ug/Kg			08/13/20 09:16	1
Bromodichloromethane	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,1-Dichloropropene	0.650	U	5.00	0.650	ug/Kg			08/13/20 09:16	1
cis-1,3-Dichloropropene	0.540	U	5.00	0.540	ug/Kg			08/13/20 09:16	1
Toluene	1.38	U	5.00	1.38	ug/Kg			08/13/20 09:16	1
trans-1,3-Dichloropropene	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,1,2-Trichloroethane	0.730	U	5.00	0.730	ug/Kg			08/13/20 09:16	1
Tetrachloroethene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
1,3-Dichloropropene, Total	0.580	U	5.00	0.580	ug/Kg			08/13/20 09:16	1
1,2-Dibromoethane	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Monochlorobenzene	0.960	U	5.00	0.960	ug/Kg			08/13/20 09:16	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			08/13/20 09:16	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			08/13/20 09:16	1
Styrene	0.710	U	5.00	0.710	ug/Kg			08/13/20 09:16	1
Tribromomethane	1.37	U	5.00	1.37	ug/Kg			08/13/20 09:16	1
1,1,2,2-Tetrachloroethane	0.870	U	5.00	0.870	ug/Kg			08/13/20 09:16	1
1,4-Dichlorobenzene	0.660	U	5.00	0.660	ug/Kg			08/13/20 09:16	1
1,2-Dichlorobenzene	0.800	U	5.00	0.800	ug/Kg			08/13/20 09:16	1
1,2,4-Trichlorobenzene	1.97	U	5.00	1.97	ug/Kg			08/13/20 09:16	1
Dichlorodifluoromethane	1.54	U	5.00	1.54	ug/Kg			08/13/20 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*61 - 130*		*08/13/20 09:16*	*1*
Dibromofluoromethane	*90*		*68 - 140*		*08/13/20 09:16*	*1*
Toluene-d8 (Surr)	*94*		*50 - 130*		*08/13/20 09:16*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*		*08/13/20 09:16*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-301050/3
Matrix: Solid
Analysis Batch: 301050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	62.60		ug/Kg		125	44 - 141
Vinyl chloride	50.0	56.81		ug/Kg		114	40 - 148
Bromomethane	50.0	47.04		ug/Kg		94	37 - 147
Trichlorofluoromethane	50.0	58.99		ug/Kg		118	53 - 134
Acrolein	250	187.8		ug/Kg		75	10 - 150
1,1-Dichloroethene	50.0	43.46		ug/Kg		87	62 - 142
trans-1,2-Dichloroethene	50.0	45.56		ug/Kg		91	69 - 130
Methyl tert-butyl ether	50.0	48.13		ug/Kg		96	63 - 132
Methylene Chloride	50.0	45.62		ug/Kg		91	61 - 150
Acrylonitrile	500	427.0		ug/Kg		85	43 - 150
cis-1,2-Dichloroethene	50.0	45.90		ug/Kg		92	70 - 130
Carbon tetrachloride	50.0	51.32		ug/Kg		103	58 - 130
Benzene	50.0	46.71		ug/Kg		93	70 - 131
1,2-Dichloroethane	50.0	50.78		ug/Kg		102	58 - 137
Trichloroethene	50.0	43.91		ug/Kg		88	63 - 135
1,1,1-Trichloroethane	50.0	53.00		ug/Kg		106	59 - 130
1,1-Dichloroethane	50.0	50.37		ug/Kg		101	63 - 140
1,2-Dichloropropane	50.0	48.85		ug/Kg		98	70 - 130
1,4-Dioxane	1000	710.8		ug/Kg		71	31 - 150
Chloroform	50.0	50.39		ug/Kg		101	69 - 130
Bromodichloromethane	50.0	50.13		ug/Kg		100	67 - 138
1,1-Dichloropropene	50.0	50.16		ug/Kg		100	67 - 130
cis-1,3-Dichloropropene	50.0	47.14		ug/Kg		94	65 - 130
Toluene	50.0	47.87		ug/Kg		96	67 - 130
trans-1,3-Dichloropropene	50.0	48.68		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	44.09		ug/Kg		88	67 - 134
Tetrachloroethene	50.0	45.09		ug/Kg		90	43 - 143
1,3-Dichloropropene, Total	100	95.82		ug/Kg		96	70 - 130
1,2-Dibromoethane	50.0	41.52		ug/Kg		83	65 - 136
Monochlorobenzene	50.0	46.20		ug/Kg		92	63 - 131
Ethylbenzene	50.0	45.93		ug/Kg		92	66 - 130
Xylenes, Total	100	93.07		ug/Kg		93	63 - 130
Styrene	50.0	45.04		ug/Kg		90	65 - 133
Tribromomethane	50.0	47.04		ug/Kg		94	43 - 150
1,1,2,2-Tetrachloroethane	50.0	46.75		ug/Kg		94	61 - 138
1,4-Dichlorobenzene	50.0	49.09		ug/Kg		98	65 - 131
1,2-Dichlorobenzene	50.0	49.00		ug/Kg		98	61 - 131
1,2,4-Trichlorobenzene	50.0	45.91		ug/Kg		92	53 - 136
Dichlorodifluoromethane	50.0	67.00		ug/Kg		134	24 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*
Dibromofluoromethane	*87*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*112*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-301050/4
Matrix: Solid
Analysis Batch: 301050

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
Chloromethane			50.0	70.57		ug/Kg		141	44 - 141	12	30
Vinyl chloride			50.0	60.70		ug/Kg		121	40 - 148	7	30
Bromomethane			50.0	54.12		ug/Kg		108	37 - 147	14	30
Trichlorofluoromethane			50.0	62.29		ug/Kg		125	53 - 134	5	30
Acrolein			250	187.8		ug/Kg		75	10 - 150	0	30
1,1-Dichloroethene			50.0	48.43		ug/Kg		97	62 - 142	11	30
trans-1,2-Dichloroethene			50.0	49.66		ug/Kg		99	69 - 130	9	30
Methyl tert-butyl ether			50.0	47.56		ug/Kg		95	63 - 132	1	30
Methylene Chloride			50.0	50.95		ug/Kg		102	61 - 150	11	30
Acrylonitrile			500	434.3		ug/Kg		87	43 - 150	2	30
cis-1,2-Dichloroethene			50.0	47.09		ug/Kg		94	70 - 130	3	30
Carbon tetrachloride			50.0	52.91		ug/Kg		106	58 - 130	3	30
Benzene			50.0	49.53		ug/Kg		99	70 - 131	6	30
1,2-Dichloroethane			50.0	53.19		ug/Kg		106	58 - 137	5	30
Trichloroethene			50.0	45.48		ug/Kg		91	63 - 135	4	30
1,1,1-Trichloroethane			50.0	55.40		ug/Kg		111	59 - 130	4	30
1,1-Dichloroethane			50.0	53.77		ug/Kg		108	63 - 140	7	30
1,2-Dichloropropane			50.0	51.35		ug/Kg		103	70 - 130	5	30
1,4-Dioxane			1000	632.7		ug/Kg		63	31 - 150	12	30
Chloroform			50.0	52.23		ug/Kg		104	69 - 130	4	30
Bromodichloromethane			50.0	49.98		ug/Kg		100	67 - 138	0	30
1,1-Dichloropropene			50.0	51.98		ug/Kg		104	67 - 130	4	30
cis-1,3-Dichloropropene			50.0	50.70		ug/Kg		101	65 - 130	7	30
Toluene			50.0	50.63		ug/Kg		101	67 - 130	6	30
trans-1,3-Dichloropropene			50.0	51.03		ug/Kg		102	70 - 130	5	30
1,1,2-Trichloroethane			50.0	44.91		ug/Kg		90	67 - 134	2	30
Tetrachloroethene			50.0	48.92		ug/Kg		98	43 - 143	8	30
1,3-Dichloropropene, Total			100	101.7		ug/Kg		102	70 - 130	6	30
1,2-Dibromoethane			50.0	43.77		ug/Kg		88	65 - 136	5	30
Monochlorobenzene			50.0	48.77		ug/Kg		98	63 - 131	5	30
Ethylbenzene			50.0	48.16		ug/Kg		96	66 - 130	5	30
Xylenes, Total			100	98.14		ug/Kg		98	63 - 130	5	30
Styrene			50.0	47.92		ug/Kg		96	65 - 133	6	30
Tribromomethane			50.0	47.54		ug/Kg		95	43 - 150	1	30
1,1,2,2-Tetrachloroethane			50.0	45.97		ug/Kg		92	61 - 138	2	30
1,4-Dichlorobenzene			50.0	51.20		ug/Kg		102	65 - 131	4	30
1,2-Dichlorobenzene			50.0	52.28		ug/Kg		105	61 - 131	6	30
1,2,4-Trichlorobenzene			50.0	50.70		ug/Kg		101	53 - 136	10	30
Dichlorodifluoromethane			50.0	69.88		ug/Kg		140	24 - 147	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*
Dibromofluoromethane	*82*		*68 - 140*
Toluene-d8 (Surr)	*92*		*50 - 130*
4-Bromofluorobenzene	*103*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Di (2-ethylhexyl)phthalate	5.34	U	33.1	5.34	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-300979/1-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/12/20 09:49	08/17/20 08:25	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/12/20 09:49	08/17/20 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*10 - 148*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorobiphenyl	*90*		*38 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
2-Fluorophenol	*84*		*25 - 132*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Nitrobenzene-d5	*89*		*10 - 155*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Terphenyl-d14	*113*		*53 - 134*	*08/12/20 09:49*	*08/17/20 08:25*	*1*
Phenol-d5 (Surr)	*84*		*27 - 130*	*08/12/20 09:49*	*08/17/20 08:25*	*1*

Lab Sample ID: LCS 600-300979/24-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodiethylamine	663	603.2		ug/Kg		91	50 - 150
N-Nitrosopyrrolidine	663	640.3		ug/Kg		97	50 - 150
N-Nitrosodi-n-butylamine	663	504.6		ug/Kg		76	50 - 150
Pentachlorobenzene	663	570.9		ug/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*99*		*10 - 148*
2-Fluorobiphenyl	*95*		*38 - 130*
2-Fluorophenol	*87*		*25 - 132*
Nitrobenzene-d5	*91*		*10 - 155*
Terphenyl-d14	*116*		*53 - 134*
Phenol-d5 (Surr)	*89*		*27 - 130*

Lab Sample ID: LCS 600-300979/25-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	1330	1839	E	ug/Kg		138	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*56*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*73*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*109*		*53 - 134*
Phenol-d5 (Surr)	*79*		*27 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	663	620.7		ug/Kg		94	29 - 130
Bis(2-chloroethyl)ether	663	632.1		ug/Kg		95	40 - 130
Hexachloroethane	663	616.4		ug/Kg		93	37 - 130
Nitrobenzene	663	664.3		ug/Kg		100	42 - 130
Isophorone	663	669.6		ug/Kg		101	39 - 130
2,4-Dichlorophenol	663	685.5		ug/Kg		103	38 - 130
Naphthalene	663	645.1		ug/Kg		97	40 - 130
Hexachlorobutadiene	663	643.5		ug/Kg		97	36 - 130
2-Methylnaphthalene	663	669.4		ug/Kg		101	43 - 130
1-Methylnaphthalene	663	645.4		ug/Kg		97	43 - 130
1,2,4,5-Tetrachlorobenzene	663	672.6		ug/Kg		101	37 - 130
Hexachlorocyclopentadiene	663	594.1		ug/Kg		90	10 - 130
2,4,6-Trichlorophenol	663	691.8		ug/Kg		104	39 - 130
2,4,5-Trichlorophenol	663	714.3		ug/Kg		108	41 - 130
Dimethyl phthalate	663	732.0		ug/Kg		110	40 - 130
Acenaphthylene	663	717.5		ug/Kg		108	39 - 130
2,6-Dinitrotoluene	663	718.6		ug/Kg		108	44 - 130
Acenaphthene	663	691.9		ug/Kg		104	42 - 130
Dinitrophenols	1330	1084		ug/Kg		82	15 - 130
2,4-Dinitrotoluene	663	719.1		ug/Kg		109	45 - 130
Diethyl phthalate	663	753.6		ug/Kg		114	50 - 130
Fluorene	663	722.7		ug/Kg		109	46 - 130
Dinitro-o-cresol	1330	1237		ug/Kg		93	38 - 130
N-Nitrosodiphenylamine	663	778.1		ug/Kg		117	48 - 130
Diphenylhydrazine, 1,2-	663	789.2		ug/Kg		119	50 - 130
Hexachlorobenzene	663	733.7		ug/Kg		111	44 - 130
Atrazine	663	523.8		ug/Kg		79	10 - 140
Pentachlorophenol	1330	1166		ug/Kg		88	40 - 130
Phenanthrene	663	759.4		ug/Kg		115	51 - 130
Anthracene	663	775.6		ug/Kg		117	51 - 130
Dibutylphthalate	663	860.8		ug/Kg		130	51 - 135
Fluoranthene	663	763.4		ug/Kg		115	53 - 130
Benzidine	3310	861.3		ug/Kg		26	10 - 130
Pyrene	663	785.6		ug/Kg		119	53 - 130
Dichlorobenzidine, 3,3'-	663	456.2		ug/Kg		69	13 - 146
Benzo[a]anthracene	663	760.5		ug/Kg		115	54 - 130
Di (2-ethylhexyl)phthalate	663	842.8		ug/Kg		127	41 - 145
Chrysene	663	776.4		ug/Kg		117	52 - 130
Benzo[b]fluoranthene	663	733.1		ug/Kg		111	41 - 139
Benzo[k]fluoranthene	663	726.2		ug/Kg		110	42 - 134
Benzo[a]pyrene	663	719.7		ug/Kg		109	44 - 131
Indeno[1,2,3-cd]pyrene	663	738.7		ug/Kg		111	35 - 146
Dibenz(a,h)anthracene	663	775.0		ug/Kg		117	40 - 137
Benzo[g,h,i]perylene	663	778.5		ug/Kg		117	38 - 142
bis (2-chloroisopropyl) ether	663	638.6		ug/Kg		96	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*100*		*10 - 148*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-300979/2-A
Matrix: Solid
Analysis Batch: 301300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300979

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	98		38 - 130
2-Fluorophenol	91		25 - 132
Nitrobenzene-d5	95		10 - 155
Terphenyl-d14	112		53 - 134
Phenol-d5 (Surr)	93		27 - 130

Lab Sample ID: MB 600-301327/1-A
Matrix: Solid
Analysis Batch: 301390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	4.17	U	33.1	4.17	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodiethylamine	7.14	U	33.1	7.14	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Bis(2-chloroethyl)ether	1.64	U	33.1	1.64	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachloroethane	2.30	U	33.1	2.30	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosopyrrolidine	4.65	U	33.1	4.65	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Nitrobenzene	2.94	U	33.1	2.94	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Isophorone	0.995	U	33.1	0.995	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4-Dichlorophenol	3.85	U	33.1	3.85	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Naphthalene	1.34	U	33.1	1.34	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorobutadiene	1.91	U	33.1	1.91	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodi-n-butylamine	16.6	U	33.1	16.6	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2-Methylnaphthalene	2.73	U	33.1	2.73	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
1-Methylnaphthalene	1.56	U	33.1	1.56	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
1,2,4,5-Tetrachlorobenzene	6.71	U	33.1	6.71	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorocyclopentadiene	4.59	U	33.1	4.59	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4,6-Trichlorophenol	2.67	U	33.1	2.67	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4,5-Trichlorophenol	9.96	U	33.1	9.96	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dimethyl phthalate	4.86	U	66.3	4.86	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Acenaphthylene	0.995	U	33.1	0.995	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,6-Dinitrotoluene	2.93	U	33.1	2.93	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Acenaphthene	1.43	U	33.1	1.43	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dinitrophenols	4.69	U	99.5	4.69	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Pentachlorobenzene	3.99	U	33.1	3.99	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
2,4-Dinitrotoluene	3.59	U	33.1	3.59	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Diethyl phthalate	8.39	U	66.3	8.39	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Fluorene	2.35	U	33.1	2.35	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dinitro-o-cresol	4.95	U	169	4.95	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
N-Nitrosodiphenylamine	1.88	U	33.1	1.88	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Diphenylhydrazine, 1,2-	1.61	U	33.1	1.61	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Hexachlorobenzene	1.51	U	33.1	1.51	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Atrazine	4.99	U	33.1	4.99	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Pentachlorophenol	3.98	U	166	3.98	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Phenanthrene	4.92	U	33.1	4.92	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Anthracene	1.27	U	33.1	1.27	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dibutylphthalate	2.58	U	66.3	2.58	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Fluoranthene	3.09	U	33.1	3.09	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzidine	8.97	U	328	8.97	ug/Kg		08/17/20 09:22	08/17/20 17:11	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 600-301327/1-A
Matrix: Solid
Analysis Batch: 301390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	1.82	U	33.1	1.82	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dichlorobenzidine, 3,3'-	10.1	U	33.1	10.1	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[a]anthracene	1.37	U	33.1	1.37	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Di (2-ethylhexyl)phthalate	21.05	J	33.1	5.34	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Chrysene	1.01	U	33.1	1.01	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[b]fluoranthene	1.71	U	33.1	1.71	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[k]fluoranthene	1.48	U	33.1	1.48	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[a]pyrene	1.60	U	33.1	1.60	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Indeno[1,2,3-cd]pyrene	3.48	U	33.1	3.48	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Dibenz(a,h)anthracene	3.61	U	33.1	3.61	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Benzo[g,h,i]perylene	5.04	U	33.1	5.04	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
bis (2-chloroisopropyl) ether	8.79	U	33.1	8.79	ug/Kg		08/17/20 09:22	08/17/20 17:11	1
Thiophene, tetrahydro-, 1,1-dioxide	16.6	U	33.1	16.6	ug/Kg		08/17/20 09:22	08/17/20 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*10 - 148*	*08/17/20 09:22*	*08/17/20 17:11*	*1*
2-Fluorobiphenyl	*89*		*38 - 130*	*08/17/20 09:22*	*08/17/20 17:11*	*1*
2-Fluorophenol	*88*		*25 - 132*	*08/17/20 09:22*	*08/17/20 17:11*	*1*
Nitrobenzene-d5	*88*		*10 - 155*	*08/17/20 09:22*	*08/17/20 17:11*	*1*
Terphenyl-d14	*105*		*53 - 134*	*08/17/20 09:22*	*08/17/20 17:11*	*1*
Phenol-d5 (Surr)	*85*		*27 - 130*	*08/17/20 09:22*	*08/17/20 17:11*	*1*

Lab Sample ID: LCS 600-301327/12-A
Matrix: Solid
Analysis Batch: 301550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thiophene, tetrahydro-, 1,1-dioxide	664	972.6		ug/Kg		146	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*70*		*10 - 148*
2-Fluorobiphenyl	*85*		*38 - 130*
2-Fluorophenol	*78*		*25 - 132*
Nitrobenzene-d5	*80*		*10 - 155*
Terphenyl-d14	*105*		*53 - 134*
Phenol-d5 (Surr)	*76*		*27 - 130*

Lab Sample ID: LCS 600-301327/2-A
Matrix: Solid
Analysis Batch: 301390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	666	537.8		ug/Kg		81	29 - 130
Bis(2-chloroethyl)ether	666	571.9		ug/Kg		86	40 - 130
Hexachloroethane	666	567.5		ug/Kg		85	37 - 130
Nitrobenzene	666	588.2		ug/Kg		88	42 - 130
Isophorone	666	617.0		ug/Kg		93	39 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-301327/2-A
Matrix: Solid
Analysis Batch: 301390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	666	632.9		ug/Kg		95	38 - 130
Naphthalene	666	582.8		ug/Kg		88	40 - 130
Hexachlorobutadiene	666	581.9		ug/Kg		87	36 - 130
2-Methylnaphthalene	666	619.8		ug/Kg		93	43 - 130
1-Methylnaphthalene	666	589.9		ug/Kg		89	43 - 130
1,2,4,5-Tetrachlorobenzene	666	595.7		ug/Kg		89	37 - 130
Hexachlorocyclopentadiene	666	644.6		ug/Kg		97	10 - 130
2,4,6-Trichlorophenol	666	580.7		ug/Kg		87	39 - 130
2,4,5-Trichlorophenol	666	658.9		ug/Kg		99	41 - 130
Dimethyl phthalate	666	676.5		ug/Kg		102	40 - 130
Acenaphthylene	666	652.0		ug/Kg		98	39 - 130
2,6-Dinitrotoluene	666	656.5		ug/Kg		99	44 - 130
Acenaphthene	666	621.9		ug/Kg		93	42 - 130
Dinitrophenols	1330	1162		ug/Kg		87	15 - 130
2,4-Dinitrotoluene	666	663.5		ug/Kg		100	45 - 130
Diethyl phthalate	666	680.4		ug/Kg		102	50 - 130
Fluorene	666	649.7		ug/Kg		98	46 - 130
Dinitro-o-cresol	1330	1226		ug/Kg		92	38 - 130
N-Nitrosodiphenylamine	666	724.6		ug/Kg		109	48 - 130
Diphenylhydrazine, 1,2-	666	695.5		ug/Kg		104	50 - 130
Hexachlorobenzene	666	664.3		ug/Kg		100	44 - 130
Atrazine	1330	1316		ug/Kg		99	10 - 140
Pentachlorophenol	1330	1041		ug/Kg		78	40 - 130
Phenanthrene	666	674.1		ug/Kg		101	51 - 130
Anthracene	666	702.2		ug/Kg		105	51 - 130
Dibutylphthalate	666	767.0		ug/Kg		115	51 - 135
Fluoranthene	666	688.2		ug/Kg		103	53 - 130
Benzidine	3330	2278	E	ug/Kg		68	10 - 130
Pyrene	666	727.1		ug/Kg		109	53 - 130
Dichlorobenzidine, 3,3'-	666	476.2		ug/Kg		72	13 - 146
Benzo[a]anthracene	666	692.2		ug/Kg		104	54 - 130
Di (2-ethylhexyl)phthalate	666	796.6		ug/Kg		120	41 - 145
Chrysene	666	688.5		ug/Kg		103	52 - 130
Benzo[b]fluoranthene	666	669.9		ug/Kg		101	41 - 139
Benzo[k]fluoranthene	666	658.1		ug/Kg		99	42 - 134
Benzo[a]pyrene	666	635.8		ug/Kg		95	44 - 131
Indeno[1,2,3-cd]pyrene	666	650.3		ug/Kg		98	35 - 146
Dibenz(a,h)anthracene	666	668.0		ug/Kg		100	40 - 137
Benzo[g,h,i]perylene	666	711.1		ug/Kg		107	38 - 142
bis (2-chloroisopropyl) ether	666	549.5		ug/Kg		83	38 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*86*		*10 - 148*
2-Fluorobiphenyl	*90*		*38 - 130*
2-Fluorophenol	*83*		*25 - 132*
Nitrobenzene-d5	*87*		*10 - 155*
Terphenyl-d14	*104*		*53 - 134*
Phenol-d5 (Surr)	*83*		*27 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 600-301327/3-A
Matrix: Solid
Analysis Batch: 301390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301327

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
N-Nitrosodiethylamine			663	570.7		ug/Kg		86	50 - 150		
N-Nitrosopyrrolidine			663	602.1		ug/Kg		91	50 - 150		
N-Nitrosodi-n-butylamine			663	465.4		ug/Kg		70	50 - 150		
Pentachlorobenzene			663	535.2		ug/Kg		81	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*85*		*10 - 148*
2-Fluorobiphenyl	*88*		*38 - 130*
2-Fluorophenol	*84*		*25 - 132*
Nitrobenzene-d5	*84*		*10 - 155*
Terphenyl-d14	*104*		*53 - 134*
Phenol-d5 (Surr)	*77*		*27 - 130*

Method: 8270D - Pesticides by GC/MS

Lab Sample ID: MB 400-500724/1-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Prometon	12.0	U	66.0	12.0	ug/Kg		08/18/20 13:25	08/20/20 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*75*		*30 - 164*	*08/18/20 13:25*	*08/20/20 15:59*	*1*

Lab Sample ID: LCS 400-500724/2-A
Matrix: Solid
Analysis Batch: 501018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Prometon			333	252.5		ug/Kg		76	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*87*		*30 - 164*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-300806/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/10/20 15:56	08/13/20 11:51	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/10/20 15:56	08/13/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*08/10/20 15:56*	*08/13/20 11:51*	*1*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-300806/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.6	70.64		mg/Kg		106	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: LCSD 600-300806/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	75.11		mg/Kg		113	66 - 134	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: MB 600-301059/1-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	4.97	1.70	mg/Kg		08/13/20 07:17	08/15/20 09:49	1
C28-C36	4.97	U	4.97	4.97	mg/Kg		08/13/20 07:17	08/15/20 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*60 - 140*	*08/13/20 07:17*	*08/15/20 09:49*	*1*

Lab Sample ID: LCS 600-301059/2-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301059

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.4	51.72		mg/Kg		78	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*71*		*60 - 140*

Lab Sample ID: LCSD 600-301059/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301059

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.4	54.22		mg/Kg		82	66 - 134	5	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 600-301059/3-A
Matrix: Solid
Analysis Batch: 301085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301059

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	76		60 - 140

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 600-300862/1-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, beta-	1.02	U	1.69	1.02	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, delta-	0.847	U	1.69	0.847	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, alpha-	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Hexachlorocyclohexane, gamma-	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Chlordane (technical)	23.3	U	74.7	23.3	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
DDT	1.84	U	3.29	1.84	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Dieldrin	1.38	U	3.29	1.38	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan I	0.996	U	1.69	0.996	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan II	1.50	U	3.29	1.50	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endosulfan sulfate	1.67	U	3.29	1.67	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin	1.52	U	3.29	1.52	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Endrin aldehyde	1.55	U	3.29	1.55	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor	0.926	U	1.69	0.926	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Heptachlor epoxide	1.17	U	1.69	1.17	ug/Kg		08/11/20 08:51	08/11/20 19:37	1
Toxaphene	72.8	U	169	72.8	ug/Kg		08/11/20 08:51	08/11/20 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	127		47 - 150	08/11/20 08:51	08/11/20 19:37	1
Tetrachloro-m-xylene	116		50 - 143	08/11/20 08:51	08/11/20 19:37	1

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	18.06		ug/Kg		109	42 - 150
Hexachlorocyclohexane, beta-	16.6	18.03		ug/Kg		108	32 - 150
Hexachlorocyclohexane, delta-	16.6	20.49		ug/Kg		123	33 - 150
Hexachlorocyclohexane, alpha-	16.6	18.14		ug/Kg		109	63 - 130
Hexachlorocyclohexane, gamma-	16.6	18.30		ug/Kg		110	36 - 150
DDT	16.6	22.31		ug/Kg		134	46 - 150
Dieldrin	16.6	18.72		ug/Kg		113	42 - 150
Endosulfan I	16.6	13.84		ug/Kg		83	37 - 150
Endosulfan II	16.6	18.94		ug/Kg		114	43 - 150
Endosulfan sulfate	16.6	20.02		ug/Kg		120	32 - 150
Endrin	16.6	20.38		ug/Kg		123	41 - 150
Endrin aldehyde	16.6	22.48		ug/Kg		135	42 - 150
Heptachlor	16.6	18.17		ug/Kg		109	35 - 150

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 600-300862/2-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Heptachlor epoxide			16.6	17.12		ug/Kg		103	42 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*47 - 150*
Tetrachloro-m-xylene	*74*		*50 - 143*

Lab Sample ID: LCSD 600-300862/3-A
Matrix: Solid
Analysis Batch: 300913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 300862

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	17.36		ug/Kg		104	42 - 150	4	20
Hexachlorocyclohexane, beta-			16.6	18.09		ug/Kg		109	32 - 150	0	20
Hexachlorocyclohexane, delta-			16.6	20.47		ug/Kg		123	33 - 150	0	20
Hexachlorocyclohexane, alpha-			16.6	16.93		ug/Kg		102	63 - 130	7	20
Hexachlorocyclohexane, gamma-			16.6	17.29		ug/Kg		104	36 - 150	6	20
DDT			16.6	22.58		ug/Kg		136	46 - 150	1	20
Dieldrin			16.6	18.96		ug/Kg		114	42 - 150	1	20
Endosulfan I			16.6	14.22		ug/Kg		86	37 - 150	3	20
Endosulfan II			16.6	18.23		ug/Kg		110	43 - 150	4	20
Endosulfan sulfate			16.6	20.67		ug/Kg		124	32 - 150	3	20
Endrin			16.6	21.64		ug/Kg		130	41 - 150	6	20
Endrin aldehyde			16.6	23.30		ug/Kg		140	42 - 150	4	20
Heptachlor			16.6	16.75		ug/Kg		101	35 - 150	8	20
Heptachlor epoxide			16.6	16.99		ug/Kg		102	42 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 150*
Tetrachloro-m-xylene	*89*		*50 - 143*

Lab Sample ID: MB 600-301410/1-A
Matrix: Solid
Analysis Batch: 301944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.30	U	1.69	1.30	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, beta-	1.01	U	1.69	1.01	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, delta-	0.845	U	1.69	0.845	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, alpha-	0.994	U	1.69	0.994	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Hexachlorocyclohexane, gamma-	0.924	U	1.69	0.924	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Chlordane (technical)	23.3	U	74.6	23.3	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
DDT	1.84	U	3.28	1.84	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Dieldrin	1.38	U	3.28	1.38	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan I	0.994	U	1.69	0.994	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan II	1.50	U	3.28	1.50	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endosulfan sulfate	1.67	U	3.28	1.67	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Endrin	1.52	U	3.28	1.52	ug/Kg		08/18/20 05:27	08/24/20 12:54	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 600-301410/1-A
Matrix: Solid
Analysis Batch: 301944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	1.55	U	3.28	1.55	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Heptachlor	0.924	U	1.69	0.924	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Heptachlor epoxide	1.16	U	1.69	1.16	ug/Kg		08/18/20 05:27	08/24/20 12:54	1
Toxaphene	72.7	U	169	72.7	ug/Kg		08/18/20 05:27	08/24/20 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*47 - 150*	*08/18/20 05:27*	*08/24/20 12:54*	*1*
Tetrachloro-m-xylene	*67*		*50 - 143*	*08/18/20 05:27*	*08/24/20 12:54*	*1*

Lab Sample ID: LCS 600-301410/2-A
Matrix: Solid
Analysis Batch: 301944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.6	15.37		ug/Kg		92	42 - 150
Hexachlorocyclohexane, beta-	16.6	16.67		ug/Kg		100	32 - 150
Hexachlorocyclohexane, delta-	16.6	16.91		ug/Kg		102	33 - 150
Hexachlorocyclohexane, alpha-	16.6	15.46		ug/Kg		93	63 - 130
Hexachlorocyclohexane, gamma-	16.6	15.57		ug/Kg		94	36 - 150
DDT	16.6	18.92		ug/Kg		114	46 - 150
Dieldrin	16.6	16.08		ug/Kg		97	42 - 150
Endosulfan I	16.6	13.01		ug/Kg		78	37 - 150
Endosulfan II	16.6	16.33		ug/Kg		98	43 - 150
Endosulfan sulfate	16.6	17.39		ug/Kg		105	32 - 150
Endrin	16.6	16.48		ug/Kg		99	41 - 150
Endrin aldehyde	16.6	19.77		ug/Kg		119	42 - 150
Heptachlor	16.6	15.49		ug/Kg		93	35 - 150
Heptachlor epoxide	16.6	14.62		ug/Kg		88	42 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*47 - 150*
Tetrachloro-m-xylene	*72*		*50 - 143*

Lab Sample ID: LCSD 600-301410/3-A
Matrix: Solid
Analysis Batch: 301944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.6	13.47		ug/Kg		81	42 - 150	13	20
Hexachlorocyclohexane, beta-	16.6	14.17		ug/Kg		85	32 - 150	16	20
Hexachlorocyclohexane, delta-	16.6	14.83		ug/Kg		89	33 - 150	13	20
Hexachlorocyclohexane, alpha-	16.6	13.81		ug/Kg		83	63 - 130	11	20
Hexachlorocyclohexane, gamma-	16.6	13.73		ug/Kg		83	36 - 150	13	20
DDT	16.6	16.82		ug/Kg		101	46 - 150	12	20
Dieldrin	16.6	14.25		ug/Kg		86	42 - 150	12	20
Endosulfan I	16.6	11.27		ug/Kg		68	37 - 150	14	20
Endosulfan II	16.6	14.83		ug/Kg		89	43 - 150	10	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 600-301410/3-A
Matrix: Solid
Analysis Batch: 301944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate			16.6	15.21		ug/Kg		92	32 - 150	13	20
Endrin			16.6	14.64		ug/Kg		88	41 - 150	12	20
Endrin aldehyde			16.6	17.27		ug/Kg		104	42 - 150	14	20
Heptachlor			16.6	13.58		ug/Kg		82	35 - 150	13	20
Heptachlor epoxide			16.6	12.88		ug/Kg		78	42 - 150	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*78*		*47 - 150*
Tetrachloro-m-xylene	*64*		*50 - 143*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 600-301410/1-A
Matrix: Solid
Analysis Batch: 301545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.00159	U	0.0166	0.00159	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1221	0.00858	U	0.0166	0.00858	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1232	0.00666	U	0.0166	0.00666	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1242	0.00123	U	0.0166	0.00123	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1248	0.00248	U	0.0166	0.00248	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1254	0.00220	U	0.0166	0.00220	mg/Kg		08/18/20 05:27	08/19/20 13:34	1
PCB-1260	0.0134	U	0.0166	0.0134	mg/Kg		08/18/20 05:27	08/19/20 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*10 - 150*	*08/18/20 05:27*	*08/19/20 13:34*	*1*
DCB Decachlorobiphenyl	*116*		*10 - 150*	*08/18/20 05:27*	*08/19/20 13:34*	*1*

Lab Sample ID: LCS 600-301410/4-A
Matrix: Solid
Analysis Batch: 301545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301410

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			0.166	0.1879		mg/Kg		113	42 - 130
PCB-1260			0.166	0.1491		mg/Kg		90	59 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*10 - 150*
DCB Decachlorobiphenyl	*92*		*10 - 150*

Lab Sample ID: LCSD 600-301410/5-A
Matrix: Solid
Analysis Batch: 301545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			0.166	0.2048		mg/Kg		123	42 - 130	9	30
PCB-1260			0.166	0.1970		mg/Kg		118	59 - 135	28	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 600-301410/5-A
Matrix: Solid
Analysis Batch: 301545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301410

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	98		10 - 150
DCB Decachlorobiphenyl	127		10 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/11/20 11:50	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/11/20 11:50	1

Lab Sample ID: MB 600-300916/1-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.251	U	2.00	0.251	mg/Kg			08/12/20 02:57	1
Nitrite as N	0.297	U	2.00	0.297	mg/Kg			08/12/20 02:57	1

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	98.87		mg/Kg		99	90 - 110
Nitrite as N	100	101.4		mg/Kg		101	90 - 110

Lab Sample ID: LCS 600-300916/2-A
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100	91.93		mg/Kg		92	90 - 110
Nitrite as N	100	100.5		mg/Kg		100	90 - 110

Lab Sample ID: 600-209488-2 MS
Matrix: Solid
Analysis Batch: 300880

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	7.27		21.9	26.51		mg/Kg	☼	88	80 - 120
Nitrite as N	0.325	U	21.9	22.91		mg/Kg	☼	105	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-209488-2 MSD — **Client Sample ID: CELL21-SQUARE21-S-2-3-200807**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	7.27		21.9	26.21		mg/Kg	☼	87	80 - 120	1	20
Nitrite as N	0.325	U	21.9	22.78		mg/Kg	☼	104	80 - 120	1	20

Lab Sample ID: MB 600-300916/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/11/20 11:50	1
Fluoride	0.601	U	2.00	0.601	mg/Kg			08/11/20 11:50	1
Sulfate	0.957	U	5.00	0.957	mg/Kg			08/11/20 11:50	1

Lab Sample ID: LCS 600-300916/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	193.0		mg/Kg		97	90 - 110
Fluoride	75.0	82.00		mg/Kg		109	90 - 110
Sulfate	200	193.9		mg/Kg		97	90 - 110

Lab Sample ID: 600-209488-2 MS — **Client Sample ID: CELL21-SQUARE21-S-2-3-200807**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.14	J	109	112.0		mg/Kg	☼	100	80 - 120
Fluoride	10.1		21.9	31.48		mg/Kg	☼	98	80 - 120
Sulfate	47.3		109	149.4		mg/Kg	☼	93	80 - 120

Lab Sample ID: 600-209488-2 MSD — **Client Sample ID: CELL21-SQUARE21-S-2-3-200807**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 300881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.14	J	109	110.2		mg/Kg	☼	98	80 - 120	2	20
Fluoride	10.1		21.9	31.27		mg/Kg	☼	97	80 - 120	1	20
Sulfate	47.3		109	149.1		mg/Kg	☼	93	80 - 120	0	20

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-505436/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 505596 — **Prep Batch: 505436**

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		08/12/20 15:04	08/13/20 16:41	1
Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.0430	U	0.200	0.0430	mg/Kg		08/12/20 15:04	08/13/20 16:41	1
2,4,6-Trinitrotoluene	0.0307	U	0.100	0.0307	mg/Kg		08/12/20 15:04	08/13/20 16:41	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-505436/1-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505436

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	102		83 - 122	08/12/20 15:04	08/13/20 16:41	1

Lab Sample ID: LCS 280-505436/2-A
Matrix: Solid
Analysis Batch: 505596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505436

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	1.009		mg/Kg		101	80 - 120
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1.00	1.051		mg/Kg		105	80 - 124
2,4,6-Trinitrotoluene	1.00	1.050		mg/Kg		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	106		83 - 122

Method: 6860 - Perchlorate by IC/MS or IC/MS/MS

Lab Sample ID: MB 280-505376/1-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	0.0824	U	0.500	0.0824	ug/Kg		08/12/20 11:00	08/20/20 14:31	1

Lab Sample ID: LCS 280-505376/2-A
Matrix: Solid
Analysis Batch: 506026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	0.500	0.5330		ug/Kg		107	80 - 120

Lab Sample ID: DLCK 280-506024/12
Matrix: Solid
Analysis Batch: 506024

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	0.04997	J	ug/L		100	70 - 130

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

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	0.4920	J	ug/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.455	0.4537	J	ug/L		100	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: DLCK 280-500633/14
Matrix: Solid
Analysis Batch: 500633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	0.464	0.665	U	ug/L		92	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C8 PFOA	*108*		*57 - 153*
13C8 PFOS	*91*		*70 - 130*

Lab Sample ID: MB 280-505864/1-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 505864

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		08/17/20 14:49	08/24/20 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.280	U	0.800	0.280	ug/Kg		08/17/20 14:49	08/24/20 11:46	1
Perfluorooctanesulfonic acid (PFOS)	0.140	U	0.800	0.140	ug/Kg		08/17/20 14:49	08/24/20 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 PFOA	*104*		*57 - 153*	*08/17/20 14:49*	*08/24/20 11:46*	*1*
13C8 PFOS	*94*		*70 - 130*	*08/17/20 14:49*	*08/24/20 11:46*	*1*

Lab Sample ID: LCS 280-505864/2-A
Matrix: Solid
Analysis Batch: 506717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 505864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanoic acid (PFOA)	20.0	18.81		ug/Kg		94	70 - 131
Perfluorohexanesulfonic acid (PFHxS)	18.2	16.81		ug/Kg		92	70 - 135
Perfluorooctanesulfonic acid (PFOS)	18.6	18.69		ug/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 PFOA	*101*		*57 - 153*
13C8 PFOS	*98*		*70 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0729	U	0.195	0.0729	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Arsenic	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Barium	0.486	U	1.95	0.486	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Beryllium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Cadmium	0.0233	U	0.0486	0.0233	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Chromium	0.438	U	0.973	0.438	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Iron	5.84	U	11.7	5.84	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-481632/1-A ^2
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.389	U	0.973	0.389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Manganese	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Lead	0.122	U	0.292	0.122	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Antimony	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Selenium	0.311	U	0.486	0.311	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Thallium	0.195	U	0.486	0.195	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Zinc	1.95	U	4.86	1.95	mg/Kg		09/04/20 10:33	09/09/20 19:03	2
Uranium	0.0389	U	0.0973	0.0389	mg/Kg		09/04/20 10:33	09/09/20 19:03	2

Lab Sample ID: LCSSRM 160-481632/3-A ^10
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	40.3	37.10		mg/Kg		92.1	69.2 - 130.8
Arsenic	95.5	92.41		mg/Kg		96.8	70.1 - 129.8
Barium	300	273.8		mg/Kg		91.3	75.0 - 125.0
Beryllium	103	99.40		mg/Kg		96.5	75.0 - 125.2
Cadmium	135	134.8		mg/Kg		99.8	125. - 74.82
Chromium	147	137.0		mg/Kg		93.2	70.1 - 129.9
Iron	14400	11610		mg/Kg		80.6	35.8 - 164.6
Copper	150	155.4		mg/Kg		103.6	75.3 - 125.3
Manganese	677	697.6		mg/Kg		103.0	78.1 - 122.0
Lead	92.3	89.28		mg/Kg		96.7	70.0 - 130.0
Antimony	120	60.58		mg/Kg		50.5	19.0 - 251.7
Selenium	42.0	41.47		mg/Kg		98.7	55.7 - 144.5
Thallium	83.1	83.63		mg/Kg		100.6	65.3 - 134.8
Zinc	369	375.6		mg/Kg		101.8	69.9 - 130.1
Uranium	70.1	67.82		mg/Kg		96.8	64.9 - 135.0

Lab Sample ID: 600-209488-1 MS
Matrix: Solid
Analysis Batch: 481844

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 481632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.802	U	19.6	17.33		mg/Kg	☼	88	75 - 125
Arsenic	4.39	J	98.1	100.4		mg/Kg	☼	98	75 - 125
Barium	477		98.1	735.8	4	mg/Kg	☼	264	75 - 125

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 600-209488-1 MS — **Client Sample ID: CELL20-SQUARE154-S-2-3-200807**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 481844 — **Prep Batch: 481632**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.428	U	9.82	8.579		mg/Kg	☼	87	75 - 125
Cadmium	0.257	U	98.0	89.74		mg/Kg	☼	92	75 - 125
Chromium	4.81	U	98.1	94.39		mg/Kg	☼	96	75 - 125
Iron	1170		981	2254		mg/Kg	☼	110	75 - 125
Copper	4.28	U	98.0	87.35		mg/Kg	☼	89	75 - 125
Manganese	6.07		98.1	107.1		mg/Kg	☼	103	75 - 125
Lead	1.34	U	98.0	96.28		mg/Kg	☼	98	75 - 125
Antimony	2.14	U	49.0	36.53	N1	mg/Kg	☼	74	75 - 125
Selenium	3.42	U	49.0	48.73		mg/Kg	☼	99	75 - 125
Thallium	2.14	U	19.6	18.53		mg/Kg	☼	95	75 - 125
Zinc	21.4	U	98.0	97.49		mg/Kg	☼	99	75 - 125
Uranium	0.428	U	98.1	96.53		mg/Kg	☼	98	75 - 125

Lab Sample ID: 600-209488-1 MSD — **Client Sample ID: CELL20-SQUARE154-S-2-3-200807**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 481844 — **Prep Batch: 481632**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.802	U	22.2	20.15		mg/Kg	☼	91	75 - 125	15	30
Arsenic	4.39	J	111	116.4		mg/Kg	☼	101	75 - 125	15	30
Barium	477		111	575.3	4	mg/Kg	☼	88	75 - 125	24	30
Beryllium	0.428	U	11.1	10.43		mg/Kg	☼	94	75 - 125	19	30
Cadmium	0.257	U	111	104.5		mg/Kg	☼	94	75 - 125	15	30
Chromium	4.81	U	111	109.9		mg/Kg	☼	99	75 - 125	15	30
Iron	1170		1110	2555		mg/Kg	☼	124	75 - 125	13	30
Copper	4.28	U	111	100.7		mg/Kg	☼	91	75 - 125	14	30
Manganese	6.07		111	121.7		mg/Kg	☼	104	75 - 125	13	30
Lead	1.34	U	111	110.4		mg/Kg	☼	99	75 - 125	14	30
Antimony	2.14	U	55.6	42.72		mg/Kg	☼	77	75 - 125	16	30
Selenium	3.42	U	55.5	54.00		mg/Kg	☼	97	75 - 125	10	30
Thallium	2.14	U	22.2	21.44		mg/Kg	☼	97	75 - 125	15	30
Zinc	21.4	U	111	107.2		mg/Kg	☼	97	75 - 125	10	30
Uranium	0.428	U	111	111.2		mg/Kg	☼	100	75 - 125	14	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 600-302704/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00341	U	0.0162	0.00341	mg/Kg		09/02/20 13:16	09/03/20 13:22	1

Lab Sample ID: LCS 600-302704/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302818 — **Prep Batch: 302704**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.2549		mg/Kg		110	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 600-209488-2 MS
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00350	U	0.245	0.2034		mg/Kg	☼	83	75 - 125

Lab Sample ID: 600-209488-2 DU
Matrix: Solid
Analysis Batch: 302818

Client Sample ID: CELL21-SQUARE21-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 302704

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.00350	U	0.00350	U	mg/Kg	☼	NC	20

Method: 2540 C-1997 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: LB 600-301322/1-A
Matrix: Solid
Analysis Batch: 301367

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	10.0	U	10.0	10.0	mg/L			08/17/20 11:57	1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-209488-1 DU
Matrix: Solid
Analysis Batch: 300956

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.8		11.4		%		4	20
Percent Solids	88.2		88.6		%		0.5	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 600-301738/1-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00150	U	0.0100	0.00150	mg/Kg		08/20/20 13:55	08/20/20 17:40	1

Lab Sample ID: LCS 600-301738/2-A
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.1007		mg/Kg		101	90 - 110

Lab Sample ID: 600-209488-1 MS
Matrix: Solid
Analysis Batch: 301760

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Prep Type: Total/NA
Prep Batch: 301738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0198	U	1.33	0.1305	J N1	mg/Kg	☼	10	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 600-209488-1 MSD — **Client Sample ID: CELL20-SQUARE154-S-2-3-200807**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301760 — **Prep Batch: 301738**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.0198	U	1.33	0.1437	N1	mg/Kg	☼	11	90 - 110	10	20

Method: 9045D - pH

Lab Sample ID: 600-209488-2 DU — **Client Sample ID: CELL21-SQUARE21-S-2-3-200807**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 302075

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.7	H	8.7		SU		0.5	1

Method: 9066 - Phenolics (Colorimetric, 4-AAP with Distillation)

Lab Sample ID: MB 600-301712/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301753 — **Prep Batch: 301712**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	0.00419	U	0.00500	0.00419	mg/Kg		08/20/20 12:06	08/20/20 16:09	1

Lab Sample ID: LCS 600-301712/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 301753 — **Prep Batch: 301712**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	0.100	0.09758		mg/Kg		98	90 - 110

Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-479981/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 482295 — **Prep Batch: 479981**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03656	U	0.0485	0.0486	1.00	0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Radium-228	0.1104	U	0.223	0.224		0.307	pCi/g	08/20/20 11:43	09/12/20 09:20	1
Combined Radium 226 + 228	0.1470	U	0.228	0.229		0.529	pCi/g	08/20/20 11:43	09/12/20 09:20	1

Lab Sample ID: LCS 160-479981/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 482368 — **Prep Batch: 479981**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Americium-241	96.5	94.70		9.93		0.973	pCi/g	98	87 - 116
Cesium-137	26.9	25.80		2.74		0.148	pCi/g	96	87 - 120
Cobalt-60	9.78	9.353		0.981		0.0584	pCi/g	96	87 - 115

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

GC/MS VOA

Prep Batch: 300996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8260B	300996
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8260B	300996
MB 600-301050/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-301050/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-301050/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 300979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300979/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300979/1-A	Method Blank	Total/NA	Solid	8270C LL	300979
LCS 600-300979/24-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/25-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979
LCS 600-300979/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	300979

Prep Batch: 301327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301327/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301327/12-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301327/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301327/3-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 301390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8270C LL	301327
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8270C LL	300979
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8270C LL	300979
MB 600-301327/1-A	Method Blank	Total/NA	Solid	8270C LL	301327
LCS 600-301327/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327
LCS 600-301327/3-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327

Analysis Batch: 301550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-301327/12-A	Lab Control Sample	Total/NA	Solid	8270C LL	301327

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

GC/MS Semi VOA

Prep Batch: 500724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 400-500724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 501018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8270D	500724
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8270D	500724
MB 400-500724/1-A	Method Blank	Total/NA	Solid	8270D	500724
LCS 400-500724/2-A	Lab Control Sample	Total/NA	Solid	8270D	500724

GC VOA

Prep Batch: 300717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	5030B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	5030B	

Analysis Batch: 301053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8015B	300717
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8015B	300717

GC Semi VOA

Prep Batch: 300806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 300862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3546	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3546	
MB 600-300862/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 300913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-300862/1-A	Method Blank	Total/NA	Solid	8081A	300862
LCS 600-300862/2-A	Lab Control Sample	Total/NA	Solid	8081A	300862
LCSD 600-300862/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	300862

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

GC Semi VOA

Prep Batch: 301059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301059/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301059/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-301059/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 301085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8015B	301059
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8015B	300806
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8015B	300806
MB 600-300806/1-A	Method Blank	Total/NA	Solid	8015B	300806
MB 600-301059/1-A	Method Blank	Total/NA	Solid	8015B	301059
LCS 600-300806/2-A	Lab Control Sample	Total/NA	Solid	8015B	300806
LCS 600-301059/2-A	Lab Control Sample	Total/NA	Solid	8015B	301059
LCSD 600-300806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	300806
LCSD 600-301059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	301059

Analysis Batch: 301103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8082	300862
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8082	300862

Analysis Batch: 301106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8081A	300862
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8081A	300862

Prep Batch: 301410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3546	
MB 600-301410/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-301410/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 600-301410/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-301410/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
LCSD 600-301410/5-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 301545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8082	301410
MB 600-301410/1-A	Method Blank	Total/NA	Solid	8082	301410
LCS 600-301410/4-A	Lab Control Sample	Total/NA	Solid	8082	301410
LCSD 600-301410/5-A	Lab Control Sample Dup	Total/NA	Solid	8082	301410

Analysis Batch: 301944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8081A	301410
MB 600-301410/1-A	Method Blank	Total/NA	Solid	8081A	301410
LCS 600-301410/2-A	Lab Control Sample	Total/NA	Solid	8081A	301410
LCSD 600-301410/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	301410

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

HPLC/IC

Analysis Batch: 300880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916

Analysis Batch: 300881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	300.0	300916
MB 600-300916/1-A	Method Blank	Soluble	Solid	300.0	300916
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	300.0	300916
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	300.0	300916

Leach Batch: 300916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Soluble	Solid	DI Leach	
MB 600-300916/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-300916/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	
600-209488-2 MSD	CELL21-SQUARE21-S-2-3-200807	Soluble	Solid	DI Leach	

ISM Prep Batch: 505294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Increment, prep	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Increment, prep	

Prep Batch: 505436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8330B	505294
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8330B	505294
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	

Analysis Batch: 505596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	8330B	505436
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	8330B	505436
MB 280-505436/1-A	Method Blank	Total/NA	Solid	8330B	505436
LCS 280-505436/2-A	Lab Control Sample	Total/NA	Solid	8330B	505436

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

LCMS

Analysis Batch: 500633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-500633/14	Lab Control Sample	Total/NA	Solid	DV-LC-0012	

Prep Batch: 505376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6860	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6860	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6860	
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	

Prep Batch: 505864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	PFC leach	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	PFC leach	
MB 280-505864/1-A	Method Blank	Total/NA	Solid	PFC leach	
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	PFC leach	

Analysis Batch: 506024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-506024/12	Lab Control Sample	Total/NA	Solid	6860	

Analysis Batch: 506026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6860	505376
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6860	505376
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6860	505376
MB 280-505376/1-A	Method Blank	Total/NA	Solid	6860	505376
LCS 280-505376/2-A	Lab Control Sample	Total/NA	Solid	6860	505376

Analysis Batch: 506717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	DV-LC-0012	505864
MB 280-505864/1-A	Method Blank	Total/NA	Solid	DV-LC-0012	505864
LCS 280-505864/2-A	Lab Control Sample	Total/NA	Solid	DV-LC-0012	505864

Metals

Prep Batch: 302704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	7471B	
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Metals

Analysis Batch: 302818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	7471B	302704
MB 600-302704/7-A	Method Blank	Total/NA	Solid	7471B	302704
LCS 600-302704/8-A	Lab Control Sample	Total/NA	Solid	7471B	302704
600-209488-2 MS	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	7471B	302704

Prep Batch: 481632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	3050B	
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	3050B	

Analysis Batch: 481844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	6020	481632
MB 160-481632/1-A ^2	Method Blank	Total/NA	Solid	6020	481632
LCSSRM 160-481632/3-A ^1	Lab Control Sample	Total/NA	Solid	6020	481632
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	6020	481632

General Chemistry

Analysis Batch: 300956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	2540B	
600-209488-1 DU	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	2540B	

Leach Batch: 301322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	7 Day Leach	Solid	335.521	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	7 Day Leach	Solid	335.521	
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	335.521	

Analysis Batch: 301367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209488-2	CELL21-SQUARE21-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
600-209488-3	CELL21-SQUARE61-S-2-3-200807	7 Day Leach	Solid	2540 C-1997	301322
LB 600-301322/1-A	Method Blank	7 Day Leach	Solid	2540 C-1997	301322

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

General Chemistry

Prep Batch: 301712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Distill/Phenol	
MB 600-301712/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	

Prep Batch: 301738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9012B	
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	

Analysis Batch: 301753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9066	301712
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9066	301712
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9066	301712
MB 600-301712/1-A	Method Blank	Total/NA	Solid	9066	301712
LCS 600-301712/2-A	Lab Control Sample	Total/NA	Solid	9066	301712

Analysis Batch: 301760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9012B	301738
MB 600-301738/1-A	Method Blank	Total/NA	Solid	9012B	301738
LCS 600-301738/2-A	Lab Control Sample	Total/NA	Solid	9012B	301738
600-209488-1 MS	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738
600-209488-1 MSD	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9012B	301738

Analysis Batch: 302075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	9045D	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9045D	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	9045D	
LCS 600-302075/1	Lab Control Sample	Total/NA	Solid	9045D	
600-209488-2 DU	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	9045D	

Rad

Leach Batch: 479526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Dry and Grind	
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Dry and Grind	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Rad

Prep Batch: 479981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-209488-1	CELL20-SQUARE154-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
600-209488-2	CELL21-SQUARE21-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
600-209488-3	CELL21-SQUARE61-S-2-3-200807	Total/NA	Solid	Fill_Geo-21	479526
MB 160-479981/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-479981/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Lab Sample ID: 600-209488-1
Date Collected: 08/07/20 13:55
Matrix: Solid
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.73 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:03	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.09 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			342.3 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482295	09/12/20 11:07	SCB	TAL SL

Client Sample ID: CELL20-SQUARE154-S-2-3-200807
Lab Sample ID: 600-209488-1
Date Collected: 08/07/20 13:55
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.62 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 12:47	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	301327	08/17/20 09:22	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/18/20 00:07	RP	TAL HOU
Total/NA	Prep	3546			15.13 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:29	PP1	TAL PEN
Total/NA	Prep	5030B			10.28 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 11:37	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	301059	08/13/20 07:17	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/15/20 11:36	RJV	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	301410	08/18/20 05:27	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301944	08/24/20 14:08	JAL	TAL HOU
Total/NA	Prep	3546			15.09 g	5.0 mL	301410	08/18/20 05:27	SMB	TAL HOU
Total/NA	Analysis	8082		1			301545	08/19/20 14:50	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 21:50	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 21:50	W1N	TAL HOU
Total/NA	Prep	6860			10.31 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:43	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.66 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:49	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5306 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:14	DAS	TAL SL
Total/NA	Prep	7471B			0.61 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:54	DCL	TAL HOU
Total/NA	Prep	9012B			0.516 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:42	AML	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL20-SQUARE154-S-2-3-200807 Lab Sample ID: 600-209488-1

Date Collected: 08/07/20 13:55 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Phenol			0.503 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 15:58	AML	TAL HOU

Client Sample ID: CELL21-SQUARE21-S-2-3-200807 Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24 **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.11 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:26	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.15 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			337.4 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482296	09/12/20 11:08	SCB	TAL SL

Client Sample ID: CELL21-SQUARE21-S-2-3-200807 Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.85 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:11	WS1	TAL HOU
Total/NA	Prep	3546			15.07 g	1.0 mL	300979	08/12/20 11:16	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:28	RP	TAL HOU
Total/NA	Prep	3546			15.09 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 18:54	PP1	TAL PEN
Total/NA	Prep	5030B			9.31 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 12:27	WS1	TAL HOU
Total/NA	Prep	3546			10.06 g	1.0 mL	300806	08/10/20 15:59	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/14/20 00:12	RJV	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 14:12	JAL	TAL HOU
Total/NA	Prep	3546			15.06 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 14:38	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 22:11	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 22:11	W1N	TAL HOU
Total/NA	Prep	6860			10.26 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:49	TMC	TAL DEN

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE21-S-2-3-200807 Lab Sample ID: 600-209488-2

Date Collected: 08/07/20 14:24 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFC leach			10.53 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 13:58	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5096 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:31	DAS	TAL SL
Total/NA	Prep	7471B			0.67 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 13:56	DCL	TAL HOU
Total/NA	Prep	9012B			0.508 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:44	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.502 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 15:59	AML	TAL HOU

Client Sample ID: CELL21-SQUARE61-S-2-3-200807 Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55 **Matrix: Solid**
Date Received: 08/08/20 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					505294	08/11/20 15:15	EKB	TAL DEN
Total/NA	Prep	8330B			10.84 g	40 mL	505436	08/12/20 15:04	EKB	TAL DEN
Total/NA	Analysis	8330B		1			505596	08/13/20 22:49	JZ	TAL DEN
7 Day Leach	Leach	335.521			1.0 g	1.0 mL	301322	08/10/20 17:00	B1K	TAL HOU
7 Day Leach	Analysis	2540 C-1997		1	100 mL	100 mL	301367	08/17/20 11:57	TNL	TAL HOU
Total/NA	Analysis	2540B		1			300956	08/12/20 07:56	ANP	TAL HOU
Total/NA	Analysis	9045D		1	20.19 g	20 mL	302075	08/25/20 13:54	HAS	TAL HOU
Total/NA	Leach	Dry and Grind			1.0 g	1.0 g	479526	08/14/20 11:54	DYI	TAL SL
Total/NA	Prep	Fill_Geo-21			362.6 g	1.0 g	479981	08/20/20 11:47	MAV	TAL SL
Total/NA	Analysis	GA-01-R		1			482298	09/12/20 11:04	SCB	TAL SL

Client Sample ID: CELL21-SQUARE61-S-2-3-200807 Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55 **Matrix: Solid**
Date Received: 08/08/20 10:05 **Percent Solids: 90.3**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.38 g	5 mL	300996	08/12/20 11:03	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	301050	08/13/20 13:34	WS1	TAL HOU
Total/NA	Prep	3546			15.03 g	1.0 mL	300979	08/12/20 11:44	SMB	TAL HOU
Total/NA	Analysis	8270C LL		1			301390	08/17/20 20:53	RP	TAL HOU
Total/NA	Prep	3546			15.07 g	1 mL	500724	08/18/20 13:26	JRW	TAL PEN
Total/NA	Analysis	8270D		1			501018	08/20/20 19:19	PP1	TAL PEN
Total/NA	Prep	5030B			9.92 g	10 mL	300717	08/08/20 15:03	WS1	TAL HOU
Total/NA	Analysis	8015B		1	250 uL	5 mL	301053	08/13/20 12:52	WS1	TAL HOU
Total/NA	Prep	3546			10.01 g	1.0 mL	300806	08/10/20 15:59	SMB	TAL HOU
Total/NA	Analysis	8015B		1			301085	08/14/20 00:45	RJV	TAL HOU
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8081A		1			301106	08/13/20 14:37	JAL	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Client Sample ID: CELL21-SQUARE61-S-2-3-200807
Lab Sample ID: 600-209488-3

Date Collected: 08/07/20 14:55
Matrix: Solid
Date Received: 08/08/20 10:05
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	5.0 mL	300862	08/11/20 09:01	SMB	TAL HOU
Total/NA	Analysis	8082		1			301103	08/13/20 15:04	JAL	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300880	08/11/20 23:12	W1N	TAL HOU
Soluble	Leach	DI Leach			5 g	50 mL	300916	08/11/20 10:43	DTN	TAL HOU
Soluble	Analysis	300.0		1			300881	08/11/20 23:12	W1N	TAL HOU
Total/NA	Prep	6860			10.45 g	100 mL	505376	08/12/20 11:00	NK	TAL DEN
Total/NA	Analysis	6860		1			506026	08/20/20 15:54	TMC	TAL DEN
Total/NA	Prep	PFC leach			10.4 g	20 mL	505864	08/17/20 14:49	TEH	TAL DEN
Total/NA	Analysis	DV-LC-0012		1			506717	08/24/20 14:06	AGCM	TAL DEN
Total/NA	Prep	3050B			0.5264 g	50 mL	481632	09/04/20 10:33	CJJ	TAL SL
Total/NA	Analysis	6020		20			481844	09/09/20 19:34	DAS	TAL SL
Total/NA	Prep	7471B			0.64 g	50 mL	302704	09/02/20 13:16	SOT	TAL HOU
Total/NA	Analysis	7471B		1			302818	09/03/20 14:02	DCL	TAL HOU
Total/NA	Prep	9012B			0.515 g	6.0 mL	301738	08/20/20 13:55	AML	TAL HOU
Total/NA	Analysis	9012B		1			301760	08/20/20 17:45	AML	TAL HOU
Total/NA	Prep	Distill/Phenol			0.500 g	50.0 mL	301712	08/20/20 12:06	AML	TAL HOU
Total/NA	Analysis	9066		1	5.0 mL	5.0 mL	301753	08/20/20 16:00	AML	TAL HOU

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540 C-1997		Solid	Total Dissolved Solids
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36
8260B	5030B	Solid	1,3-Dichloropropene, Total
8270C LL	3546	Solid	1-Methylnaphthalene
8270C LL	3546	Solid	Atrazine
8270C LL	3546	Solid	Thiophene, tetrahydro-, 1,1-dioxide
9045D		Solid	pH

Laboratory: Eurofins TestAmerica, 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	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-08-21
Alaska (UST)	State	18-001	02-08-21
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-21
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-09-21
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	08-31-20
New Hampshire	NELAP	205319	04-29-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-21
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-21
Oklahoma	State	2018-006	08-31-20
Oregon	NELAP	4025-011	01-08-21
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-21
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	QUAN5	06-30-13 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 600-209488-1
Project/Site: Chevron - Jal Land Farm Soils

Laboratory: Eurofins TestAmerica, 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	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

Laboratory: Eurofins TestAmerica, 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	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-21
Kansas	NELAP	E-10253	10-31-20
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	09-30-20

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Soils

Job ID: 600-209488-1

Laboratory: Eurofins TestAmerica, 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	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-78203-21039.1
Client Contact: Alison Schaffer	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:
Address: 630 Plaza Drive Suite 100	Due Date Requested: —			
City: Highlands Ranch	TAT Requested (days): std			
State, Zip: CO, 80129-2377	PO #:			
Phone: 303-710-7537(Tel)	WO #:			
Email: Alison.Schaffer@arcadis.com	Project #: 60012538			
Project Name: Chevron - Jal Land Farm Soils	SSOW#:			
Site: Landfarm				

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)	8260B- Volatiles	8270C- Semivolatiles/ 8081 Pesticides/ 8082 PCB	6860 - Perchlorate-Ddenver- soil jar 4 oz	8330B - Denver - soil jar 4 oz	PFC - Denver- plastic 16 oz jar	8270D_AgChem -Pensacola - soil jar 4 oz	2540C_Calcd - Local Method/ Moisture/ pH 9045	8015B_GRO	8015_DRO/ORO	GA-01_R_ra- Rad 226/228- St Louis- 2 plastic jars 16	9066- Phenolics/ 9012 Cyanide	300- Nitrate, Chloride, Sulfate; Fluoride	6020/7471- St Louis -soil jar 4 oz	Total Number of containers	Special Instructions/Note:
			Preservation Code:				1	1	1	1	1	1	1	1	1	2	1	1	1		
Cell 20 - Square 154-S-2-3-200807	8/07/20	1355	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 21 - Square 21-S-2-3-200807	8/07/20	1424	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Cell 21 - Square 61 - S-2-3-200807	8/07/20	1455	G	Solid			/	/	/	/	/	/	/	/	/	/	/	/	/	11	
Temp blank	—	—		Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	
				Solid																	

600-209488 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: 8/07/20 1700	Company: Arcadis	Received by:	Date/Time: 8/8/20 1005	Company: EHA
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

Loc: 600
209488

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 AUG 8 10:05

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: JP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
T602	Y / N	Y / N	2.7	680	+0.1	2.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				8/8/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☑NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

8/8/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45922.1
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 #: 600-209488-1
Address: 13715 Rider Trail North	Due Date Requested: 8/20/2020			
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 #: 60012538			
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)	6020/3050B_2% (MOD) Copy Analytes	7471A/7471A_Prep	GA_01_R_Ra/Dry_Grind (MOD) Radium-226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL20-SQUARE154-S-2-3-200807 (600-209488-1)	8/7/20	13:55 Central		Solid			X	X	X	3	
CELL21-SQUARE21-S-2-3-200807 (600-209488-2)	8/7/20	14:24 Central		Solid			X	X	X	3	
CELL21-SQUARE61-S-2-3-200807 (600-209488-3)	8/7/20	14:55 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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
[signature]	8/10/20 13:00	ETA	FE		
FE			[signature]	8/11/20 09:18	ETAST2

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45917.1
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 #: 600-209488-1
Address: 4955 Yarrow Street,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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/ISM_AC (MOD) DOD Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CELL20-SQUARE154-S-2-3-200807 (600-209488-1)	8/7/20	13:55 Central		Solid			X	X	X	3	
CELL21-SQUARE21-S-2-3-200807 (600-209488-2)	8/7/20	14:24 Central		Solid			X	X	X	3	
CELL21-SQUARE61-S-2-3-200807 (600-209488-3)	8/7/20	14:55 Central		Solid			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	8/10/20 13:00	EDA	[signature]	8-11-20 0915	ETDDen
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:
		5.6, 1.9, IR16, -0.1, DS 8-11-20

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45925.1
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 #: 600-209488-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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:						
CELL20-SQUARE154-S-2-3-200807 (600-209488-1)	8/7/20	13:55 Central		Solid			X	1	
CELL21-SQUARE21-S-2-3-200807 (600-209488-2)	8/7/20	14:24 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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 Kudchadkar	8/10/20 13:00	ETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/12/2020 0926	Company ETA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C LR7

Ver: 01/16/2019

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

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: 600-45918.1
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 #: 600-209488-1
Address: 3355 McLemore Drive,	Due Date Requested: 8/26/2020			
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 #: 60012538			
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=wastetoil, 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-SQUARE154-S-2-3-200807 (600-209488-1)	8/7/20	13:55 Central		Solid			X	1	
CELL21-SQUARE61-S-2-3-200807 (600-209488-3)	8/7/20	14:55 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

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 Jones	8/10/20 13:00	ETA			
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
			R E E	8/12/2020 0926	ETA.

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5°C IR7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209488-1

Login Number: 209488 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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	2.8
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: 600-209488-1

Login Number: 209488 **List Source: Eurofins TestAmerica, Denver**
List Number: 2 **List Creation: 08/11/20 02:31 PM**
Creator: Schade, Daniel B

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-209488-1

Login Number: 209488
List Number: 3
Creator: Whitley, Adrian

List Source: Eurofins TestAmerica, Pensacola
List Creation: 08/12/20 05:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1075430
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	6.5°C IR7
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: 600-209488-1

Login Number: 209488
List Number: 4
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/12/20 05:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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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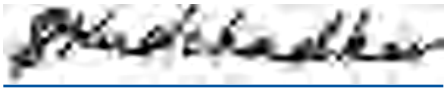
ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-211736-1
Client Project/Site: Chevron - Jal Land Farm Q3

For:
ARCADIS U.S., Inc.
1004 North Big Spring
Suite 121
Midland, Texas 79701

Attn: Sarah Johnson



Authorized for release by:
10/1/2020 4:59:44 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444
Sachin.Kudchadkar@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Q3

Laboratory Job ID: 600-211736-1

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Method Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL HOU
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
3546	Microwave Extraction	SW846	TAL HOU
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU

Protocol References:

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-211736-1	Cell 20-Square 12-S-3-4-200924	Solid	09/24/20 10:57	09/25/20 09:48	
600-211736-2	Cell 19-Square 156-S-3-4-200924	Solid	09/24/20 11:34	09/25/20 09:48	
600-211736-3	Cell 18-Square 131-S-3-4-200924	Solid	09/24/20 11:53	09/25/20 09:48	
600-211736-4	Cell 17-Square 24-S-3-4-200924	Solid	09/24/20 12:18	09/25/20 09:48	
600-211736-5	Cell 21-Square 23-S-3-4-200924	Solid	09/24/20 12:37	09/25/20 09:48	
600-211736-6	Cell 25- Square 163-S-3-4-200924	Solid	09/24/20 13:52	09/25/20 09:48	
600-211736-7	Cell 26-Square112-S-3-4-200924	Solid	09/24/20 14:16	09/25/20 09:48	

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 20-Square 12-S-3-4-200924
Lab Sample ID: 600-211736-1
Date Collected: 09/24/20 10:57
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000651	U	0.00517	0.000651	mg/Kg		09/25/20 14:04	09/25/20 17:31	1
Ethylbenzene	0.00105	U	0.00517	0.00105	mg/Kg		09/25/20 14:04	09/25/20 17:31	1
Toluene	0.00143	U	0.00517	0.00143	mg/Kg		09/25/20 14:04	09/25/20 17:31	1
Xylenes, Total	0.00117	U	0.00517	0.00117	mg/Kg		09/25/20 14:04	09/25/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*61 - 130*	*09/25/20 14:04*	*09/25/20 17:31*	*1*
Dibromofluoromethane	*93*		*68 - 140*	*09/25/20 14:04*	*09/25/20 17:31*	*1*
Toluene-d8 (Surr)	*95*		*50 - 130*	*09/25/20 14:04*	*09/25/20 17:31*	*1*
4-Bromofluorobenzene	*98*		*57 - 140*	*09/25/20 14:04*	*09/25/20 17:31*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.611	U	1.04	0.611	mg/Kg		09/25/20 12:38	09/25/20 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*09/25/20 12:38*	*09/25/20 13:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.31**	**J**	8.27	1.70	mg/Kg		09/30/20 06:14	10/01/20 09:44	1
C28-C36	**29.3**		8.27	4.98	mg/Kg		09/30/20 06:14	10/01/20 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*60 - 140*	*09/30/20 06:14*	*10/01/20 09:44*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	**92.7**		1.0	1.0	%			09/28/20 10:11	1

Client Sample ID: Cell 19-Square 156-S-3-4-200924
Lab Sample ID: 600-211736-2
Date Collected: 09/24/20 11:34
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000695	U	0.00552	0.000695	mg/Kg		09/25/20 14:04	09/25/20 17:53	1
Ethylbenzene	0.00113	U	0.00552	0.00113	mg/Kg		09/25/20 14:04	09/25/20 17:53	1
Toluene	0.00152	U	0.00552	0.00152	mg/Kg		09/25/20 14:04	09/25/20 17:53	1
Xylenes, Total	0.00125	U	0.00552	0.00125	mg/Kg		09/25/20 14:04	09/25/20 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*	*09/25/20 14:04*	*09/25/20 17:53*	*1*
Dibromofluoromethane	*90*		*68 - 140*	*09/25/20 14:04*	*09/25/20 17:53*	*1*
Toluene-d8 (Surr)	*97*		*50 - 130*	*09/25/20 14:04*	*09/25/20 17:53*	*1*
4-Bromofluorobenzene	*96*		*57 - 140*	*09/25/20 14:04*	*09/25/20 17:53*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.563	U	0.962	0.563	mg/Kg		09/25/20 12:38	09/25/20 13:36	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 19-Square 156-S-3-4-200924 Lab Sample ID: 600-211736-2

Date Collected: 09/24/20 11:34 **Matrix: Solid**
Date Received: 09/25/20 09:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*96*		*70 - 130*	*09/25/20 12:38*	*09/25/20 13:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14.6		8.26	1.70	mg/Kg		09/30/20 06:14	10/01/20 10:20	1
C28-C36	77.1		8.26	4.97	mg/Kg		09/30/20 06:14	10/01/20 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*137*		*60 - 140*	*09/30/20 06:14*	*10/01/20 10:20*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.7		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	95.3		1.0	1.0	%			09/28/20 10:11	1

Client Sample ID: Cell 18-Square 131-S-3-4-200924 Lab Sample ID: 600-211736-3

Date Collected: 09/24/20 11:53 **Matrix: Solid**
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000663	U	0.00526	0.000663	mg/Kg		09/25/20 14:04	09/26/20 11:47	1
Ethylbenzene	0.00107	U	0.00526	0.00107	mg/Kg		09/25/20 14:04	09/26/20 11:47	1
Toluene	0.00145	U	0.00526	0.00145	mg/Kg		09/25/20 14:04	09/26/20 11:47	1
Xylenes, Total	0.00119	U	0.00526	0.00119	mg/Kg		09/25/20 14:04	09/26/20 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*77*		*61 - 130*	*09/25/20 14:04*	*09/26/20 11:47*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*09/25/20 14:04*	*09/26/20 11:47*	*1*
Toluene-d8 (Surr)	*101*		*50 - 130*	*09/25/20 14:04*	*09/26/20 11:47*	*1*
4-Bromofluorobenzene	*101*		*57 - 140*	*09/25/20 14:04*	*09/26/20 11:47*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.577	U	0.985	0.577	mg/Kg		09/25/20 12:38	09/25/20 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*09/25/20 12:38*	*09/25/20 14:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34.2		8.28	1.71	mg/Kg		09/30/20 06:14	10/01/20 10:52	1
C28-C36	133		8.28	4.99	mg/Kg		09/30/20 06:14	10/01/20 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*144*	*X*	*60 - 140*	*09/30/20 06:14*	*10/01/20 10:52*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	92.1		1.0	1.0	%			09/28/20 10:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 17-Square 24-S-3-4-200924
Lab Sample ID: 600-211736-4
Date Collected: 09/24/20 12:18
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000659	U	0.00523	0.000659	mg/Kg		09/25/20 14:04	09/26/20 12:09	1
Ethylbenzene	0.00107	U	0.00523	0.00107	mg/Kg		09/25/20 14:04	09/26/20 12:09	1
Toluene	0.00144	U	0.00523	0.00144	mg/Kg		09/25/20 14:04	09/26/20 12:09	1
Xylenes, Total	0.00118	U	0.00523	0.00118	mg/Kg		09/25/20 14:04	09/26/20 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*61 - 130*	*09/25/20 14:04*	*09/26/20 12:09*	*1*
Dibromofluoromethane	*89*		*68 - 140*	*09/25/20 14:04*	*09/26/20 12:09*	*1*
Toluene-d8 (Surr)	*90*		*50 - 130*	*09/25/20 14:04*	*09/26/20 12:09*	*1*
4-Bromofluorobenzene	*94*		*57 - 140*	*09/25/20 14:04*	*09/26/20 12:09*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.620	U	1.06	0.620	mg/Kg		09/25/20 12:38	09/25/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*09/25/20 12:38*	*09/25/20 14:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.77**	**J**	8.26	1.70	mg/Kg		09/30/20 06:14	10/01/20 11:24	1
C28-C36	**49.3**		8.26	4.97	mg/Kg		09/30/20 06:14	10/01/20 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*120*		*60 - 140*	*09/30/20 06:14*	*10/01/20 11:24*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	**89.3**		1.0	1.0	%			09/28/20 10:11	1

Client Sample ID: Cell 21-Square 23-S-3-4-200924
Lab Sample ID: 600-211736-5
Date Collected: 09/24/20 12:37
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000631	U	0.00501	0.000631	mg/Kg		09/25/20 14:04	09/26/20 12:31	1
Ethylbenzene	0.00102	U	0.00501	0.00102	mg/Kg		09/25/20 14:04	09/26/20 12:31	1
Toluene	0.00138	U	0.00501	0.00138	mg/Kg		09/25/20 14:04	09/26/20 12:31	1
Xylenes, Total	0.00113	U	0.00501	0.00113	mg/Kg		09/25/20 14:04	09/26/20 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*09/25/20 14:04*	*09/26/20 12:31*	*1*
Dibromofluoromethane	*94*		*68 - 140*	*09/25/20 14:04*	*09/26/20 12:31*	*1*
Toluene-d8 (Surr)	*98*		*50 - 130*	*09/25/20 14:04*	*09/26/20 12:31*	*1*
4-Bromofluorobenzene	*98*		*57 - 140*	*09/25/20 14:04*	*09/26/20 12:31*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.580	U	0.990	0.580	mg/Kg		09/25/20 12:38	09/25/20 14:51	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 21-Square 23-S-3-4-200924
Lab Sample ID: 600-211736-5
Date Collected: 09/24/20 12:37
Matrix: Solid
Date Received: 09/25/20 09:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*09/25/20 12:38*	*09/25/20 14:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**61.4**		16.5	3.40	mg/Kg		09/30/20 06:14	10/01/20 11:56	2
C28-C36	**230**		16.5	9.95	mg/Kg		09/30/20 06:14	10/01/20 11:56	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*128*		*60 - 140*	*09/30/20 06:14*	*10/01/20 11:56*	*2*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	**91.4**		1.0	1.0	%			09/28/20 10:11	1

Client Sample ID: Cell 25- Square 163-S-3-4-200924
Lab Sample ID: 600-211736-6
Date Collected: 09/24/20 13:52
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000670	U	0.00532	0.000670	mg/Kg		09/25/20 14:04	09/26/20 12:53	1
Ethylbenzene	0.00109	U	0.00532	0.00109	mg/Kg		09/25/20 14:04	09/26/20 12:53	1
Toluene	0.00147	U	0.00532	0.00147	mg/Kg		09/25/20 14:04	09/26/20 12:53	1
Xylenes, Total	0.00120	U	0.00532	0.00120	mg/Kg		09/25/20 14:04	09/26/20 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*09/25/20 14:04*	*09/26/20 12:53*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*09/25/20 14:04*	*09/26/20 12:53*	*1*
Toluene-d8 (Surr)	*96*		*50 - 130*	*09/25/20 14:04*	*09/26/20 12:53*	*1*
4-Bromofluorobenzene	*100*		*57 - 140*	*09/25/20 14:04*	*09/26/20 12:53*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.553	U	0.944	0.553	mg/Kg		09/25/20 12:38	09/25/20 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*93*		*70 - 130*	*09/25/20 12:38*	*09/25/20 15:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.10**	**J**	8.29	1.71	mg/Kg		09/30/20 06:14	10/01/20 12:28	1
C28-C36	**51.8**		8.29	4.99	mg/Kg		09/30/20 06:14	10/01/20 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*115*		*60 - 140*	*09/30/20 06:14*	*10/01/20 12:28*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	**89.7**		1.0	1.0	%			09/28/20 10:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 26-Square112-S-3-4-200924
Lab Sample ID: 600-211736-7
Date Collected: 09/24/20 14:16
Matrix: Solid
Date Received: 09/25/20 09:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000612	U	0.00485	0.000612	mg/Kg		09/25/20 14:04	09/26/20 13:15	1
Ethylbenzene	0.000990	U	0.00485	0.000990	mg/Kg		09/25/20 14:04	09/26/20 13:15	1
Toluene	0.00134	U	0.00485	0.00134	mg/Kg		09/25/20 14:04	09/26/20 13:15	1
Xylenes, Total	0.00110	U	0.00485	0.00110	mg/Kg		09/25/20 14:04	09/26/20 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*	*09/25/20 14:04*	*09/26/20 13:15*	*1*
Dibromofluoromethane	*91*		*68 - 140*	*09/25/20 14:04*	*09/26/20 13:15*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*09/25/20 14:04*	*09/26/20 13:15*	*1*
4-Bromofluorobenzene	*97*		*57 - 140*	*09/25/20 14:04*	*09/26/20 13:15*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.600	U	1.02	0.600	mg/Kg		09/25/20 12:38	09/25/20 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*09/25/20 12:38*	*09/25/20 15:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.23**	**J**	8.26	1.70	mg/Kg		09/30/20 06:14	10/01/20 13:00	1
C28-C36	**52.1**		8.26	4.98	mg/Kg		09/30/20 06:14	10/01/20 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*116*		*60 - 140*	*09/30/20 06:14*	*10/01/20 13:00*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		1.0	1.0	%			09/28/20 10:11	1
Percent Solids	**89.0**		1.0	1.0	%			09/28/20 10:11	1

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

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

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)
600-211736-1	Cell 20-Square 12-S-3-4-200924	74	93	95	98
600-211736-2	Cell 19-Square 156-S-3-4-200924	71	90	97	96
600-211736-3	Cell 18-Square 131-S-3-4-200924	77	95	101	101
600-211736-4	Cell 17-Square 24-S-3-4-200924	74	89	90	94
600-211736-5	Cell 21-Square 23-S-3-4-200924	79	94	98	98
600-211736-6	Cell 25- Square 163-S-3-4-200924	79	97	96	100
600-211736-7	Cell 26-Square112-S-3-4-200924	79	91	93	97
LCS 600-304227/3	Lab Control Sample	79	96	100	103
LCS 600-304309/3	Lab Control Sample	69	92	97	98
LCSD 600-304227/4	Lab Control Sample Dup	75	93	99	102
LCSD 600-304309/4	Lab Control Sample Dup	70	91	101	97
MB 600-304227/6	Method Blank	83	97	99	102
MB 600-304309/6	Method Blank	78	93	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	Client Sample ID	(70-130)
600-211736-1	Cell 20-Square 12-S-3-4-200924	94
600-211736-2	Cell 19-Square 156-S-3-4-200924	96
600-211736-3	Cell 18-Square 131-S-3-4-200924	101
600-211736-4	Cell 17-Square 24-S-3-4-200924	94
600-211736-5	Cell 21-Square 23-S-3-4-200924	100
600-211736-6	Cell 25- Square 163-S-3-4-200924	93
600-211736-7	Cell 26-Square112-S-3-4-200924	98
LCS 600-304242/1-A	Lab Control Sample	92
LCSD 600-304242/2-A	Lab Control Sample Dup	91
MB 600-304242/3-A	Method Blank	91

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

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 (60-140)								
600-211736-1	Cell 20-Square 12-S-3-4-200924	125								
600-211736-2	Cell 19-Square 156-S-3-4-200924	137								
600-211736-3	Cell 18-Square 131-S-3-4-200924	144 X								
600-211736-4	Cell 17-Square 24-S-3-4-200924	120								
600-211736-5 - DL	Cell 21-Square 23-S-3-4-200924	128								
600-211736-6	Cell 25- Square 163-S-3-4-200924	115								
600-211736-7	Cell 26-Square112-S-3-4-200924	116								
LCS 600-304479/2-A	Lab Control Sample	138								
LCSD 600-304479/3-A	Lab Control Sample Dup	131								
MB 600-304479/1-A	Method Blank	113								

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-304227/6
Matrix: Solid
Analysis Batch: 304227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/25/20 10:08	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/25/20 10:08	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/25/20 10:08	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/25/20 10:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*61 - 130*		*09/25/20 10:08*	*1*
Dibromofluoromethane	*97*		*68 - 140*		*09/25/20 10:08*	*1*
Toluene-d8 (Surr)	*99*		*50 - 130*		*09/25/20 10:08*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*		*09/25/20 10:08*	*1*

Lab Sample ID: LCS 600-304227/3
Matrix: Solid
Analysis Batch: 304227

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	0.04924		mg/Kg		98	70 - 131		
Ethylbenzene			0.0500	0.05323		mg/Kg		106	66 - 130		
Toluene			0.0500	0.05148		mg/Kg		103	67 - 130		
Xylenes, Total			0.100	0.1029		mg/Kg		103	63 - 130		
m-Xylene & p-Xylene			0.0500	0.05088		mg/Kg		102	64 - 130		
o-Xylene			0.0500	0.05204		mg/Kg		104	62 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*		*61 - 130*
Dibromofluoromethane	*96*		*68 - 140*
Toluene-d8 (Surr)	*100*		*50 - 130*
4-Bromofluorobenzene	*103*		*57 - 140*

Lab Sample ID: LCSD 600-304227/4
Matrix: Solid
Analysis Batch: 304227

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	0.05712		mg/Kg		114	70 - 131	15	30
Ethylbenzene			0.0500	0.06376		mg/Kg		128	66 - 130	18	30
Toluene			0.0500	0.06101		mg/Kg		122	67 - 130	17	30
Xylenes, Total			0.100	0.1239		mg/Kg		124	63 - 130	19	30
m-Xylene & p-Xylene			0.0500	0.06147		mg/Kg		123	64 - 130	19	30
o-Xylene			0.0500	0.06244		mg/Kg		125	62 - 130	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*93*		*68 - 140*
Toluene-d8 (Surr)	*99*		*50 - 130*
4-Bromofluorobenzene	*102*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-304309/6
Matrix: Solid
Analysis Batch: 304309

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/26/20 11:25	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/26/20 11:25	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/26/20 11:25	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/26/20 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*		*09/26/20 11:25*	*1*
Dibromofluoromethane	*93*		*68 - 140*		*09/26/20 11:25*	*1*
Toluene-d8 (Surr)	*99*		*50 - 130*		*09/26/20 11:25*	*1*
4-Bromofluorobenzene	*98*		*57 - 140*		*09/26/20 11:25*	*1*

Lab Sample ID: LCS 600-304309/3
Matrix: Solid
Analysis Batch: 304309

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	0.05746		mg/Kg		115	70 - 131
Ethylbenzene	0.0500	0.06377		mg/Kg		128	66 - 130
Toluene	0.0500	0.06243		mg/Kg		125	67 - 130
Xylenes, Total	0.100	0.1240		mg/Kg		124	63 - 130
m-Xylene & p-Xylene	0.0500	0.06120		mg/Kg		122	64 - 130
o-Xylene	0.0500	0.06279		mg/Kg		126	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*69*		*61 - 130*
Dibromofluoromethane	*92*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*98*		*57 - 140*

Lab Sample ID: LCSD 600-304309/4
Matrix: Solid
Analysis Batch: 304309

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	0.05224		mg/Kg		104	70 - 131	10	30
Ethylbenzene	0.0500	0.05995		mg/Kg		120	66 - 130	6	30
Toluene	0.0500	0.05750		mg/Kg		115	67 - 130	8	30
Xylenes, Total	0.100	0.1164		mg/Kg		116	63 - 130	6	30
m-Xylene & p-Xylene	0.0500	0.05627		mg/Kg		113	64 - 130	8	30
o-Xylene	0.0500	0.06011		mg/Kg		120	62 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*70*		*61 - 130*
Dibromofluoromethane	*91*		*68 - 140*
Toluene-d8 (Surr)	*101*		*50 - 130*
4-Bromofluorobenzene	*97*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 600-304242/3-A
Matrix: Solid
Analysis Batch: 304229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304242

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		09/25/20 08:38	09/25/20 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*70 - 130*	*09/25/20 08:38*	*09/25/20 09:40*	*1*

Lab Sample ID: LCS 600-304242/1-A
Matrix: Solid
Analysis Batch: 304229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.277		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*92*		*70 - 130*

Lab Sample ID: LCSD 600-304242/2-A
Matrix: Solid
Analysis Batch: 304229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 304242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.424		mg/Kg		108	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*91*		*70 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 600-304479/1-A
Matrix: Solid
Analysis Batch: 304544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304479

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	8.26	1.70	mg/Kg		09/30/20 06:14	10/01/20 08:10	1
C28-C36	4.98	U	8.26	4.98	mg/Kg		09/30/20 06:14	10/01/20 08:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*60 - 140*	*09/30/20 06:14*	*10/01/20 08:10*	*1*

Lab Sample ID: LCS 600-304479/2-A
Matrix: Solid
Analysis Batch: 304544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.4	83.68		mg/Kg		126	66 - 134

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - Jal Land Farm Q3

Job ID: 600-211736-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 600-304479/2-A
Matrix: Solid
Analysis Batch: 304544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304479

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	138		60 - 140

Lab Sample ID: LCSD 600-304479/3-A
Matrix: Solid
Analysis Batch: 304544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 304479

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			66.6	82.34		mg/Kg		124	66 - 134	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	131		60 - 140

Method: 2540B - Percent Moisture

Lab Sample ID: 600-211736-4 DU
Matrix: Solid
Analysis Batch: 304342

Client Sample ID: Cell 17-Square 24-S-3-4-200924
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.7			10.7		%				0	20
Percent Solids	89.3			89.3		%				0	20

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Prep: 5030B

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

Method: 8015B - Gasoline Range Organics - (GC)

Prep: 5030B

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	1.00	0.586	mg/Kg

Method: 8015B - Diesel Range Organics (DRO) (GC)

Prep: 3546

Analyte	MQL	MDL	Units
C28-C36	8.30	5.00	mg/Kg
Diesel Range Organics [C10-C28]	8.30	1.71	mg/Kg

General Chemistry

Analyte	MQL	MDL	Units
Percent Moisture	1.0	1.0	%
Percent Solids	1.0	1.0	%

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

GC/MS VOA

Analysis Batch: 304227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	8260B	304251
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	8260B	304251
MB 600-304227/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-304227/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-304227/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 304251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-5	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	5030B	

Analysis Batch: 304309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	8260B	304251
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	8260B	304251
600-211736-5	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	8260B	304251
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	8260B	304251
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	8260B	304251
MB 600-304309/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-304309/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-304309/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC VOA

Analysis Batch: 304229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-5	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	8015B	304242
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	8015B	304242
MB 600-304242/3-A	Method Blank	Total/NA	Solid	8015B	304242
LCS 600-304242/1-A	Lab Control Sample	Total/NA	Solid	8015B	304242
LCSD 600-304242/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	304242

Prep Batch: 304242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-5	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	5030B	
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	5030B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

GC VOA (Continued)

Prep Batch: 304242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-304242/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-304242/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-304242/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 304479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	3546	
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	3546	
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	3546	
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	3546	
600-211736-5 - DL	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	3546	
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	3546	
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	3546	
MB 600-304479/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304479/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-304479/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 304544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-5 - DL	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	8015B	304479
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	8015B	304479
MB 600-304479/1-A	Method Blank	Total/NA	Solid	8015B	304479
LCS 600-304479/2-A	Lab Control Sample	Total/NA	Solid	8015B	304479
LCSD 600-304479/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	304479

General Chemistry

Analysis Batch: 304342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211736-1	Cell 20-Square 12-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-2	Cell 19-Square 156-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-3	Cell 18-Square 131-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-4	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-5	Cell 21-Square 23-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-6	Cell 25- Square 163-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-7	Cell 26-Square112-S-3-4-200924	Total/NA	Solid	2540B	
600-211736-4 DU	Cell 17-Square 24-S-3-4-200924	Total/NA	Solid	2540B	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 20-Square 12-S-3-4-200924 Lab Sample ID: 600-211736-1

Date Collected: 09/24/20 10:57 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304227	09/25/20 17:31	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 13:12	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 09:44	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 19-Square 156-S-3-4-200924 Lab Sample ID: 600-211736-2

Date Collected: 09/24/20 11:34 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304227	09/25/20 17:53	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 13:36	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 10:20	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 18-Square 131-S-3-4-200924 Lab Sample ID: 600-211736-3

Date Collected: 09/24/20 11:53 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304309	09/26/20 11:47	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 14:01	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 10:52	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 17-Square 24-S-3-4-200924 Lab Sample ID: 600-211736-4

Date Collected: 09/24/20 12:18 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304309	09/26/20 12:09	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 14:26	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 11:24	RJV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Client Sample ID: Cell 17-Square 24-S-3-4-200924 Lab Sample ID: 600-211736-4

Date Collected: 09/24/20 12:18 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 21-Square 23-S-3-4-200924 Lab Sample ID: 600-211736-5

Date Collected: 09/24/20 12:37 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304309	09/26/20 12:31	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 14:51	WS1	TAL HOU
Total/NA	Prep	3546	DL		304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B	DL	2	304544	10/01/20 11:56	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 25- Square 163-S-3-4-200924 Lab Sample ID: 600-211736-6

Date Collected: 09/24/20 13:52 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304309	09/26/20 12:53	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 15:15	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 12:28	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Client Sample ID: Cell 26-Square112-S-3-4-200924 Lab Sample ID: 600-211736-7

Date Collected: 09/24/20 14:16 **Matrix: Solid**
Date Received: 09/25/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			304251	09/25/20 14:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	304309	09/26/20 13:15	WS1	TAL HOU
Total/NA	Prep	5030B			304242	09/25/20 12:38	WS1	TAL HOU
Total/NA	Analysis	8015B		1	304229	09/25/20 15:40	WS1	TAL HOU
Total/NA	Prep	3546			304479	09/30/20 06:14	SMB	TAL HOU
Total/NA	Analysis	8015B		1	304544	10/01/20 13:00	RJV	TAL HOU
Total/NA	Analysis	2540B		1	304342	09/28/20 10:11	HAS	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 600-211736-1
Project/Site: Chevron - Jal Land Farm Q3

Laboratory: Eurofins TestAmerica, Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015B	3546	Solid	C28-C36

Released to Imaging: 5/25/2022 8:55:33 AM
Received by OCD: 5/23/2022 10:59:25 AM

Eurofins TestAmerica, Houston
6310 Rotnway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Carlos Grajeda	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-79075-21313.1
Client Contact: Sarah Johnson	Phone: 432-312-8031	E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: Page 1 of 1
Company: ARCADIS U.S., Inc.				Job #:

Analysis Requested

Address: 1004 North Big Spring Suite 121	Due Date Requested:	
City: Midland	TAT Requested (days): STD	
State, Zip: TX, 79701		
Phone: 432-227-0266(Tel)	PO #: Purchase Order Requested 30047616	
Email: sarah.johnson@arcadis.com	WO #:	
Project Name: Chevron - Jal Land Farm Soils 2020	Project #: 60011732	
Site: Jal landfarm Q3 sampling	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:

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/ ORO	8260B- BTEX	8105-GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N			
Cell 20 - Square 12-S-34-200924	9-24-20	1057	G	Solid			X	X	X	2	
Cell 19 - Square 156-S-3-4-200924		1134		Solid						2	
Cell 18 - Square 131-S-3-4-200924		1153		Solid						2	
Cell 17 - Square 24-S-34-200924		1218		Solid						2	
Cell 21 - Square 23-S-3-4-200924		1237		Solid						2	
Cell 25 - Square 163-S-3-4-200924		1352		Solid						2	
Cell 26 - Square 12-S-3-4-200924	9-24-20	1416	G	Solid			X	X	X	2	
				Solid							
				Solid							
				Solid							
				Solid							

600-211736 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: Carlos Grajeda	Date/Time: 9-24-20 1630	Company	Received by:	Date/Time: 9/25/20 9:44	Company: EA
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

Loc: 600
211736

'20 SEP 25 9:49

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 9/25/20 9:49

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: _____ CARRIER/DRIVER: FedEx

Custody Seal Present: ☒YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
0802	Y / N	Y / N	0.7	681	+0.1	0.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N			CO	9/25/20

CF = correction factor

Samples received on ice? ☒YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☐YES ☐NO ☒NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☒YES	☐ NO

COMMENTS:

9/25/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-211736-1

Login Number: 211736 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
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.

Analytical Report 680433

for

ARCADIS

Project Manager: Sarah Johnson

JAL Landfarm

12.14.2020

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

12.14.2020

Project Manager: **Sarah Johnson**
ARCADIS
1004 N. Big Spring St.
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **680433**
JAL Landfarm
Project Address: NM

Sarah Johnson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 680433. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 680433 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Sachin Kudchadkar
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell 17-Treatment-5-6-201209	S	12.09.2020 08:26		680433-001
Cell 18-Treatment-5-6-201209	S	12.09.2020 08:46		680433-002
Cell 19-Treatment-5-6-201209	S	12.09.2020 09:10		680433-003
Cell 20-Treatment-5-6-201209	S	12.09.2020 09:27		680433-004
Cell 21-Treatment-5-6-201209	S	12.09.2020 09:49		680433-005
Cell 25-Treatment-5-6-201209	S	12.09.2020 10:04		680433-006
Cell 26-Treatment-5-6-201209	S	12.09.2020 10:29		680433-007

CASE NARRATIVE

Client Name: ARCADIS

Project Name: JAL Landfarm

Project ID:
Work Order Number(s): *680433*

Report Date: *12.14.2020*
Date Received: *12.09.2020*

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3144413 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 680433-001.
Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7716762-1-BLK,7716762-1-BSD,680433-005,680433-004,680433-006,680433-003.

Batch: LBA-3144512 Chloride by EPA 300

Lab Sample ID 680447-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference.
Samples in the analytical batch are: 680433-002, -003, -004.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 17-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-001	Date Collected:	12.09.2020 08:26		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	12.10.2020 09:25	% Moisture:	
Seq Number:	3144490			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.4**	5.03	0.864	mg/kg	12.10.2020 17:42		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**28.3**	50.0	15.0	mg/kg	12.10.2020 04:39	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**88.9**	50.0	15.0	mg/kg	12.10.2020 04:39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**29.5**	50.0	15.0	mg/kg	12.10.2020 04:39	J	1
Total TPH	PHC635	**146.7**	50.00	15.00	mg/kg	12.10.2020 04:39		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	67	%	70-130	12.10.2020 04:39	**
o-Terphenyl	84-15-1	74	%	70-130	12.10.2020 04:39	

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 18-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-002	Date Collected:	12.09.2020 08:46		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	12.10.2020 11:35	% Moisture:	
Seq Number:	3144512			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	12.10.2020 13:14	UX	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**45.0**	49.8	14.9	mg/kg	12.10.2020 05:00	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**92.6**	49.8	14.9	mg/kg	12.10.2020 05:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**42.5**	49.8	14.9	mg/kg	12.10.2020 05:00	J	1
Total TPH	PHC635	**180.1**	49.80	14.90	mg/kg	12.10.2020 05:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	12.10.2020 05:00	
o-Terphenyl	84-15-1	81	%	70-130	12.10.2020 05:00	

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 19-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-003	Date Collected:	12.09.2020 09:10		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	12.10.2020 11:35	% Moisture:	
Seq Number:	3144512			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**0.867**	5.02	0.862	mg/kg	12.10.2020 13:29	J	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**19.1**	49.9	15.0	mg/kg	12.10.2020 05:21	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**45.2**	49.9	15.0	mg/kg	12.10.2020 05:21	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**16.2**	49.9	15.0	mg/kg	12.10.2020 05:21	J	1
Total TPH	PHC635	**80.50**	49.90	15.00	mg/kg	12.10.2020 05:21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	12.10.2020 05:21	
o-Terphenyl	84-15-1	138	%	70-130	12.10.2020 05:21	**

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 20-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-004	Date Collected:	12.09.2020 09:27		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	12.10.2020 11:35	% Moisture:	
Seq Number:	3144512			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1.75**	4.99	0.857	mg/kg	12.10.2020 13:34	J	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**25.2**	50.0	15.0	mg/kg	12.10.2020 05:42	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**43.1**	50.0	15.0	mg/kg	12.10.2020 05:42	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	12.10.2020 05:42	U	1
Total TPH	PHC635	**68.30**	50.00	15.00	mg/kg	12.10.2020 05:42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	12.10.2020 05:42	
o-Terphenyl	84-15-1	135	%	70-130	12.10.2020 05:42	**

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 21-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-005	Date Collected:	12.09.2020 09:49		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.11.2020 17:45	% Moisture:	
Seq Number:	3144712			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	12.12.2020 15:50	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**21.8**	50.0	15.0	mg/kg	12.10.2020 06:03	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**109**	50.0	15.0	mg/kg	12.10.2020 06:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**42.7**	50.0	15.0	mg/kg	12.10.2020 06:03	J	1
Total TPH	PHC635	**173.5**	50.00	15.00	mg/kg	12.10.2020 06:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	12.10.2020 06:03	
o-Terphenyl	84-15-1	139	%	70-130	12.10.2020 06:03	**

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 25-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-006	Date Collected:	12.09.2020 10:04		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.11.2020 17:45	% Moisture:	
Seq Number:	3144712			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3.89**	5.03	0.864	mg/kg	12.12.2020 15:55	J	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**32.7**	49.9	15.0	mg/kg	12.10.2020 06:24	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	**88.5**	49.9	15.0	mg/kg	12.10.2020 06:24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**38.1**	49.9	15.0	mg/kg	12.10.2020 06:24	J	1
Total TPH	PHC635	**159.3**	49.90	15.00	mg/kg	12.10.2020 06:24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	12.10.2020 06:24	
o-Terphenyl	84-15-1	134	%	70-130	12.10.2020 06:24	**

Certificate of Analytical Results 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id:	**Cell 26-Treatment-5-6-201209**	Matrix:	Solid	Date Received:	12.09.2020 14:50
Lab Sample Id:	680433-007	Date Collected:	12.09.2020 10:29		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	12.11.2020 17:45	% Moisture:	
Seq Number:	3144712			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.862	5.02	0.862	mg/kg	12.12.2020 16:11	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	12.09.2020 16:00	% Moisture:	
Seq Number:	3144413			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**105**	49.8	14.9	mg/kg	12.10.2020 06:46	B	1
Diesel Range Organics (DRO)	C10C28DRO	**213**	49.8	14.9	mg/kg	12.10.2020 06:46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**100**	49.8	14.9	mg/kg	12.10.2020 06:46		1
Total TPH	PHC635	**418.0**	49.80	14.90	mg/kg	12.10.2020 06:46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	12.10.2020 06:46	
o-Terphenyl	84-15-1	123	%	70-130	12.10.2020 06:46	

Blank Summary 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id: **7716762-1-BLK** Matrix: SOLID

Lab Sample Id: **7716762-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.09.2020 16:00

Seq Number: 3144413

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	20.3	50.0	15.0	mg/kg	12.09.2020 21:55	BJ	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	12.09.2020 21:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	12.09.2020 21:55	U	1

Blank Summary 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id: **7716783-1-BLK** Matrix: SOLID

Lab Sample Id: **7716783-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.10.2020 09:25

Seq Number: 3144490

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	12.10.2020 14:59	U	1

Blank Summary 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id: **7716798-1-BLK** Matrix: SOLID

Lab Sample Id: **7716798-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.10.2020 11:35

Seq Number: 3144512

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	12.10.2020 12:58	U	1

Blank Summary 680433

ARCADIS, Midland, TX

JAL Landfarm

Sample Id: **7716948-1-BLK** Matrix: SOLID

Lab Sample Id: **7716948-1-BLK**

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 12.11.2020 17:45

Seq Number: 3144712

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.858	5.00	0.858	mg/kg	12.12.2020 14:27	U	1

Form 2 - Surrogate Recoveries

Project Name: JAL Landfarm

Report Date: 12142020

Work Orders : 680433 **Project ID:**

Lab Batch #: 3144413 **Sample:** 7716762-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.09.2020 21:55 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-130	
o-Terphenyl	67.0	50.0	134	70-130	**

Lab Batch #: 3144413 **Sample:** 7716762-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.09.2020 22:16 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-130	
o-Terphenyl	64.8	50.0	130	70-130	

Lab Batch #: 3144413 **Sample:** 7716762-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.09.2020 22:38 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-130	
o-Terphenyl	71.2	50.0	142	70-130	**

Lab Batch #: 3144413 **Sample:** 680368-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12.09.2020 23:21 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.6	118	70-130	
o-Terphenyl	63.0	49.8	127	70-130	

Lab Batch #: 3144413 **Sample:** 680368-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12.09.2020 23:43 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.7	123	70-130	
o-Terphenyl	63.6	49.9	127	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

QC Summary 680433

ARCADIS

JAL Landfarm

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144490 — Matrix: Solid — Date Prep: 12.10.2020
MB Sample Id: 7716783-1-BLK — LCS Sample Id: 7716783-1-BKS — LCSD Sample Id: 7716783-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	257	103	257	103	90-110	0	20	mg/kg	12.10.2020 15:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144512 — Matrix: Solid — Date Prep: 12.10.2020
MB Sample Id: 7716798-1-BLK — LCS Sample Id: 7716798-1-BKS — LCSD Sample Id: 7716798-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	258	103	259	104	90-110	0	20	mg/kg	12.10.2020 13:03	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144712 — Matrix: Solid — Date Prep: 12.11.2020
MB Sample Id: 7716948-1-BLK — LCS Sample Id: 7716948-1-BKS — LCSD Sample Id: 7716948-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	259	104	258	103	90-110	0	20	mg/kg	12.12.2020 14:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144490 — Matrix: Soil — Date Prep: 12.10.2020
Parent Sample Id: 680315-002 — MS Sample Id: 680315-002 S — MSD Sample Id: 680315-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	193	248	449	103	450	104	90-110	0	20	mg/kg	12.10.2020 15:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144490 — Matrix: Soil — Date Prep: 12.10.2020
Parent Sample Id: 680368-014 — MS Sample Id: 680368-014 S — MSD Sample Id: 680368-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	28.3	252	297	107	295	106	90-110	1	20	mg/kg	12.10.2020 16:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144512 — Matrix: Solid — Date Prep: 12.10.2020
Parent Sample Id: 680433-002 — MS Sample Id: 680433-002 S — MSD Sample Id: 680433-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	280	112	270	108	90-110	4	20	mg/kg	12.10.2020 13:19	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery — [D] = 100 * (C) / [B]
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Final 1.000

QC Summary 680433

ARCADIS

JAL Landfarm

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144512 — Matrix: Soil — Date Prep: 12.10.2020
Parent Sample Id: 680447-001 — MS Sample Id: 680447-001 S — MSD Sample Id: 680447-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.864	252	288	114	282	112	90-110	2	20	mg/kg	12.10.2020 14:32	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144712 — Matrix: Solid — Date Prep: 12.11.2020
Parent Sample Id: 680433-006 — MS Sample Id: 680433-006 S — MSD Sample Id: 680433-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.89	252	261	102	258	101	90-110	1	20	mg/kg	12.12.2020 16:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3144712 — Matrix: Soil — Date Prep: 12.11.2020
Parent Sample Id: 680447-015 — MS Sample Id: 680447-015 S — MSD Sample Id: 680447-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.853	249	253	102	252	101	90-110	0	20	mg/kg	12.12.2020 14:48	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3144413 — Matrix: Solid — Date Prep: 12.09.2020
MB Sample Id: 7716762-1-BLK — LCS Sample Id: 7716762-1-BKS — LCSD Sample Id: 7716762-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1140	114	1130	113	70-130	1	20	mg/kg	12.09.2020 22:16	
Diesel Range Organics (DRO)	<15.0	1000	1180	118	1190	119	70-130	1	20	mg/kg	12.09.2020 22:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		129		127		70-130	%	12.09.2020 22:16
o-Terphenyl	134	**	130		142	**	70-130	%	12.09.2020 22:16

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3144413 — Matrix: Solid — Date Prep: 12.09.2020
MB Sample Id: 7716762-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	12.09.2020 21:55	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 680433

ARCADIS

JAL Landfarm

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Seq Number: 3144413 Matrix: Soil Date Prep: 12.09.2020

Parent Sample Id: 680368-001 MS Sample Id: 680368-001 S MSD Sample Id: 680368-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<14.9	996	1040	104	1070	107	70-130	3	20	mg/kg	12.09.2020 23:21	
Diesel Range Organics (DRO)	735	996	1810	108	1820	109	70-130	1	20	mg/kg	12.09.2020 23:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		123		70-130	%	12.09.2020 23:21
o-Terphenyl	127		127		70-130	%	12.09.2020 23:21

MS/MSD Percent Recovery [D] = 100*(C-A) / B

Relative Percent Difference RPD = 200* | (C-E) / (C+E) |

LCS/LCSD Recovery [D] = 100 * (C) / [B]

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result

E = MSD/LCSD Result

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Eurofins Xenco
4147 Green Briar Dr
Stafford TX 77477
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

6900433

eurofins | Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-75751-20436.8
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Std			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-227-0266(Tel)	PO #:			
Email: Sarah.johnson@arcadis.com	WO #:			
Project Name: JAL Landfarm	Project #:			
Site: JAL Landfarm	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ ~~Cl, F, NO3, SO4~~ Cl - Q	8015B_GRO/DRO/ORO TPH Q	8260- BTEX	6020- Ca, Mg, Na, K, As, Sb, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, Zn	7471- Hg	9012- Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
Cell 17-Treatment-S-6-201209	12/09/20	0826		Solid		N	X	X					1	
Cell 18-Treatment-S-6-201209		0846		Solid										
Cell 19-Treatment-S-6-201209		0910		Solid										
Cell 20-Treatment-S-6-201209		0927		Solid										
Cell 21-Treatment-S-6-201209		0949		Solid										
Cell 25-Treatment-S-6-201209		1004		Solid										
Cell 26-Treatment-S-6-201209		1029		Solid										
				Solid										
				Solid										
				Solid										
				Solid										

9/s 12/09/20

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 12/09/20 1450	Company: Arcadis	Received by:	Date/Time: 12/09/20 1450	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: 0.9/1.4

Ver: 01/16/2019

Received by OCD: 5/23/2022 10:59:25 AM
Final 1.000
Page 21 of 22
Released to Imaging: 5/25/2022 8:55:33 AM

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ARCADIS

Date/ Time Received: 12.09.2020 02.50.00 PM

Work Order #: 680433

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12.09.2020

Brianna Teel

Checklist reviewed by: Date: 12.09.2020

Sachin Kudchadkar

Analytical Report 680647

for

ARCADIS

Project Manager: Sarah Johnson

Jal Landfarm

12.28.2020

Collected By: Client



1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

12.28.2020

Project Manager: **Sarah Johnson**
ARCADIS
1004 N. Big Spring St.
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **680647**
Jal Landfarm
Project Address: Landfarm

Sarah Johnson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 680647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 680647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Sachin Kudchadkar
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Cell26-Square36-S-2-3-201210	S	12.10.2020 12:30		680647-001
Cell21-Square40-S-2-3-201210	S	12.10.2020 11:00		680647-002
Cell20-Square92-S-2-3-201210	S	12.10.2020 09:45		680647-003
Cell18-Square74-S-2-3-201210	S	12.10.2020 10:15		680647-004
Cell17-Square179-S-2-3-201210	S	12.10.2020 10:40		680647-005
Cell19-Square79-S--2-3-201210	S	12.10.2020 09:55		680647-006
Cell25-Square107-S-2-3-201210	S	12.10.2020 11:30		680647-007

CASE NARRATIVE

Client Name: ARCADIS

Project Name: Jal Landfarm

Project ID:
Work Order Number(s): *680647*

Report Date: *12.28.2020*
Date Received: *12.10.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3144736 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7717008-1-BKS,7717008-1-BSD,680647-005,680647-006,680647-007,680647-003,680647-004.

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell26-Square36-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-001 Date Collected: 12.10.2020 12:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: JYM

Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:

Seq Number: 3145006 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.26**	9.98	0.353	mg/kg	12.15.2020 14:41	J	1
Fluoride	16984-48-8	**6.82**	4.99	0.353	mg/kg	12.15.2020 14:41		1
Nitrate as N	14797-55-8	**12.5**	0.998	0.108	mg/kg	12.15.2020 14:41	K	1
Sulfate	14808-79-8	**95.7**	9.98	2.00	mg/kg	12.15.2020 14:41		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P

Tech: YAV

Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:

Seq Number: 3145396 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0297	0.0598	0.0297	mg/kg	12.16.2020 16:14	U	1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P

Tech: VID

Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:

Seq Number: 3144946 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0182**	0.0185	0.00356	mg/kg	12.15.2020 13:57	J	1

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell26-Square36-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-001 Date Collected: 12.10.2020 12:30

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.114	1.92	0.114	mg/kg	12.15.2020 19:46	U	10
Arsenic	7440-38-2	**2.82**	3.85	0.593	mg/kg	12.15.2020 19:46	J	10
Barium	7440-39-3	**169**	3.85	0.334	mg/kg	12.15.2020 19:46		10
Beryllium	7440-41-7	<0.178	1.92	0.178	mg/kg	12.15.2020 19:46	U	10
Cadmium	7440-43-9	<0.112	1.92	0.112	mg/kg	12.15.2020 19:46	U	10
Calcium	7440-70-2	**333000**	9620	1310	mg/kg	12.16.2020 14:33	D	1000
Chromium	7440-47-3	**3.01**	3.85	0.261	mg/kg	12.15.2020 19:46	J	10
Copper	7440-50-8	**1.92**	3.85	0.251	mg/kg	12.15.2020 19:46	J	10
Iron	7439-89-6	**2770**	19.2	2.25	mg/kg	12.16.2020 16:00	D	10
Lead	7439-92-1	**1.99**	1.92	0.186	mg/kg	12.15.2020 19:46		10
Magnesium	7439-95-4	**2620**	96.2	7.77	mg/kg	12.15.2020 19:46		10
Manganese	7439-96-5	**35.9**	1.92	0.245	mg/kg	12.15.2020 19:46		10
Selenium	7782-49-2	<0.477	1.92	0.477	mg/kg	12.15.2020 19:46	U	10
Silver	7440-22-4	<0.153	1.92	0.153	mg/kg	12.15.2020 19:46	U	10
Sodium	7440-23-5	**225**	96.2	14.7	mg/kg	12.15.2020 19:46		10
Thallium	7440-28-0	<0.230	1.92	0.230	mg/kg	12.15.2020 19:46	U	10
Zinc	7440-66-6	**13.9**	3.85	0.426	mg/kg	12.15.2020 19:46		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	12.12.2020 14:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	12.12.2020 14:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	12.12.2020 14:43	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	12.12.2020 14:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	12.12.2020 14:43	
o-Terphenyl	84-15-1	129	%	70-130	12.12.2020 14:43	

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id:	**Cell26-Square36-S-2-3-201210**	Matrix:	Solid	Date Received:	12.10.2020 15:52
Lab Sample Id:	680647-001	Date Collected:	12.10.2020 12:30		
Analytical Method:	BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	12.16.2020 20:50	% Moisture:	
Seq Number:	3145207			Basis:	Wet Weight
				SUB:	T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	12.17.2020 00:55	U	1
Toluene	108-88-3	**0.00162**	0.00500	0.00100	mg/kg	12.17.2020 00:55	J	1
Ethylbenzene	100-41-4	**0.000570**	0.00100	0.000336	mg/kg	12.17.2020 00:55	J	1
m,p-Xylenes	179601-23-1	**0.00194**	0.00200	0.000800	mg/kg	12.17.2020 00:55	BJ	1
o-Xylene	95-47-6	<0.000985	0.00100	0.000985	mg/kg	12.17.2020 00:55	U	1
Total Xylenes	1330-20-7	**0.00194**	0.00100	0.000800	mg/kg	12.17.2020 00:55		1
Total BTEX		**0.00413**	0.00100	0.000207	mg/kg	12.17.2020 00:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	107	%	53-142	12.17.2020 00:55	
1,2-Dichloroethane-D4	17060-07-0	103	%	53-150	12.17.2020 00:55	
Toluene-D8	2037-26-5	106	%	70-130	12.17.2020 00:55	

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell21-Square40-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-002 Date Collected: 12.10.2020 11:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: JYM

Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:

Seq Number: 3145006 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.46**	10.0	0.355	mg/kg	12.15.2020 15:18	J	1
Fluoride	16984-48-8	**4.17**	5.01	0.355	mg/kg	12.15.2020 15:18	J	1
Nitrate as N	14797-55-8	**6.00**	1.00	0.108	mg/kg	12.15.2020 15:18	K	1
Sulfate	14808-79-8	**88.0**	10.0	2.00	mg/kg	12.15.2020 15:18		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P

Tech: YAV

Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:

Seq Number: 3145396 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0297	0.0600	0.0297	mg/kg	12.16.2020 16:16	U	1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P

Tech: VID

Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:

Seq Number: 3144946 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0160**	0.0189	0.00363	mg/kg	12.15.2020 13:59	J	1

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell21-Square40-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-002 Date Collected: 12.10.2020 11:00

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.112	1.89	0.112	mg/kg	12.15.2020 19:49	U	10
Arsenic	7440-38-2	**2.46**	3.77	0.582	mg/kg	12.15.2020 19:49	J	10
Barium	7440-39-3	**239**	3.77	0.327	mg/kg	12.15.2020 19:49		10
Beryllium	7440-41-7	<0.175	1.89	0.175	mg/kg	12.15.2020 19:49	U	10
Cadmium	7440-43-9	<0.109	1.89	0.109	mg/kg	12.15.2020 19:49	U	10
Calcium	7440-70-2	**268000**	9430	1280	mg/kg	12.16.2020 14:36	D	1000
Chromium	7440-47-3	**2.41**	3.77	0.256	mg/kg	12.15.2020 19:49	J	10
Copper	7440-50-8	**1.38**	3.77	0.246	mg/kg	12.15.2020 19:49	J	10
Iron	7439-89-6	**2120**	18.9	2.21	mg/kg	12.16.2020 16:03	D	10
Lead	7439-92-1	**1.45**	1.89	0.183	mg/kg	12.15.2020 19:49	J	10
Magnesium	7439-95-4	**1810**	94.3	7.63	mg/kg	12.15.2020 19:49		10
Manganese	7439-96-5	**19.3**	1.89	0.240	mg/kg	12.15.2020 19:49		10
Selenium	7782-49-2	<0.468	1.89	0.468	mg/kg	12.15.2020 19:49	U	10
Silver	7440-22-4	<0.150	1.89	0.150	mg/kg	12.15.2020 19:49	U	10
Sodium	7440-23-5	**178**	94.3	14.4	mg/kg	12.15.2020 19:49		10
Thallium	7440-28-0	<0.225	1.89	0.225	mg/kg	12.15.2020 19:49	U	10
Zinc	7440-66-6	**8.62**	3.77	0.418	mg/kg	12.15.2020 19:49		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	12.12.2020 15:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	12.12.2020 15:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	12.12.2020 15:47	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	12.12.2020 15:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	12.12.2020 15:47	
o-Terphenyl	84-15-1	130	%	70-130	12.12.2020 15:47	

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell21-Square40-S-2-3-201210**
Matrix: Solid
Date Received:12.10.2020 15:52
Lab Sample Id: 680647-002
Date Collected: 12.10.2020 11:00

Analytical Method: BTEX by SW 8260C
Prep Method: SW5035A
Tech: NGA
Analyst: NGA
Seq Number: 3145207
Date Prep: 12.16.2020 20:50
% Moisture:
Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.000408**	0.000994	0.000206	mg/kg	12.17.2020 01:15	J	1
Toluene	108-88-3	**0.00289**	0.00497	0.000994	mg/kg	12.17.2020 01:15	J	1
Ethylbenzene	100-41-4	**0.000686**	0.000994	0.000334	mg/kg	12.17.2020 01:15	J	1
m,p-Xylenes	179601-23-1	**0.00243**	0.00199	0.000795	mg/kg	12.17.2020 01:15	B	1
o-Xylene	95-47-6	<0.000979	0.000994	0.000979	mg/kg	12.17.2020 01:15	U	1
Total Xylenes	1330-20-7	**0.00243**	0.000994	0.000795	mg/kg	12.17.2020 01:15		1
Total BTEX		**0.00641**	0.000994	0.000206	mg/kg	12.17.2020 01:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	111	%	53-142	12.17.2020 01:15	
1,2-Dichloroethane-D4	17060-07-0	105	%	53-150	12.17.2020 01:15	
Toluene-D8	2037-26-5	105	%	70-130	12.17.2020 01:15	

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell20-Square92-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-003 Date Collected: 12.10.2020 09:45

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P

Tech: JYM

Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:

Seq Number: 3145006 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.2**	9.90	0.350	mg/kg	12.15.2020 15:30		1
Fluoride	16984-48-8	**3.28**	4.95	0.350	mg/kg	12.15.2020 15:30	J	1
Nitrate as N	14797-55-8	**26.7**	0.990	0.107	mg/kg	12.15.2020 15:30	K	1
Sulfate	14808-79-8	**571**	9.90	1.98	mg/kg	12.15.2020 15:30		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P

Tech: YAV

Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:

Seq Number: 3145396 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0297	0.0599	0.0297	mg/kg	12.16.2020 16:17	U	1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P

Tech: VID

Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:

Seq Number: 3144946 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0120**	0.0179	0.00343	mg/kg	12.15.2020 14:02	J	1

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell20-Square92-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-003 Date Collected: 12.10.2020 09:45

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.114	1.92	0.114	mg/kg	12.15.2020 19:52	U	10
Arsenic	7440-38-2	**2.93**	3.85	0.593	mg/kg	12.15.2020 19:52	J	10
Barium	7440-39-3	**264**	3.85	0.334	mg/kg	12.15.2020 19:52		10
Beryllium	7440-41-7	<0.178	1.92	0.178	mg/kg	12.15.2020 19:52	U	10
Cadmium	7440-43-9	<0.112	1.92	0.112	mg/kg	12.15.2020 19:52	U	10
Calcium	7440-70-2	**149000**	9620	1310	mg/kg	12.16.2020 14:39	D	1000
Chromium	7440-47-3	**4.65**	3.85	0.261	mg/kg	12.15.2020 19:52		10
Copper	7440-50-8	**2.43**	3.85	0.251	mg/kg	12.15.2020 19:52	J	10
Iron	7439-89-6	**3900**	19.2	2.25	mg/kg	12.16.2020 16:12	D	10
Lead	7439-92-1	**2.64**	1.92	0.186	mg/kg	12.15.2020 19:52		10
Magnesium	7439-95-4	**1760**	96.2	7.77	mg/kg	12.15.2020 19:52		10
Manganese	7439-96-5	**38.8**	1.92	0.245	mg/kg	12.15.2020 19:52		10
Selenium	7782-49-2	<0.477	1.92	0.477	mg/kg	12.15.2020 19:52	U	10
Silver	7440-22-4	<0.153	1.92	0.153	mg/kg	12.15.2020 19:52	U	10
Sodium	7440-23-5	**209**	96.2	14.7	mg/kg	12.15.2020 19:52		10
Thallium	7440-28-0	<0.230	1.92	0.230	mg/kg	12.15.2020 19:52	U	10
Zinc	7440-66-6	**13.2**	3.85	0.426	mg/kg	12.15.2020 19:52		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	12.12.2020 16:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	49.9	15.0	mg/kg	12.12.2020 16:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	12.12.2020 16:09	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	12.12.2020 16:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	12.12.2020 16:09	
o-Terphenyl	84-15-1	136	%	70-130	12.12.2020 16:09	**

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell20-Square92-S-2-3-201210**
Matrix: Solid
Date Received:12.10.2020 15:52
Lab Sample Id: 680647-003
Date Collected: 12.10.2020 09:45

Analytical Method: BTEX by SW 8260C
Prep Method: SW5035A
Tech: NGA
Analyst: NGA
Seq Number: 3145207
Date Prep: 12.16.2020 20:50
% Moisture:
Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.000389**	0.000998	0.000207	mg/kg	12.17.2020 01:36	J	1
Toluene	108-88-3	**0.00337**	0.00499	0.000998	mg/kg	12.17.2020 01:36	J	1
Ethylbenzene	100-41-4	**0.000968**	0.000998	0.000335	mg/kg	12.17.2020 01:36	J	1
m,p-Xylenes	179601-23-1	**0.00322**	0.00200	0.000798	mg/kg	12.17.2020 01:36	B	1
o-Xylene	95-47-6	**0.00130**	0.000998	0.000983	mg/kg	12.17.2020 01:36		1
Total Xylenes	1330-20-7	**0.00452**	0.000998	0.000798	mg/kg	12.17.2020 01:36		1
Total BTEX		**0.00925**	0.000998	0.000207	mg/kg	12.17.2020 01:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	53-142	12.17.2020 01:36	
1,2-Dichloroethane-D4	17060-07-0	98	%	53-150	12.17.2020 01:36	
Toluene-D8	2037-26-5	104	%	70-130	12.17.2020 01:36	

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell18-Square74-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52
Lab Sample Id: 680647-004 Date Collected: 12.10.2020 10:15

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: JYM
Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:
Seq Number: 3145006 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37.8**	9.94	0.352	mg/kg	12.15.2020 15:43		1
Fluoride	16984-48-8	**6.18**	4.97	0.352	mg/kg	12.15.2020 15:43		1
Nitrate as N	14797-55-8	**32.7**	0.994	0.107	mg/kg	12.15.2020 15:43	K	1
Sulfate	14808-79-8	**130**	9.94	1.99	mg/kg	12.15.2020 15:43		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P
Tech: YAV
Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:
Seq Number: 3145396 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0298	0.0601	0.0298	mg/kg	12.16.2020 16:18	U	1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P
Tech: VID
Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:
Seq Number: 3144946 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0131**	0.0185	0.00356	mg/kg	12.15.2020 14:04	J	1

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell18-Square74-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-004 Date Collected: 12.10.2020 10:15

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	**0.119**	1.89	0.112	mg/kg	12.15.2020 19:54	J	10
Arsenic	7440-38-2	**2.58**	3.77	0.582	mg/kg	12.15.2020 19:54	J	10
Barium	7440-39-3	**292**	3.77	0.327	mg/kg	12.15.2020 19:54		10
Beryllium	7440-41-7	<0.175	1.89	0.175	mg/kg	12.15.2020 19:54	U	10
Cadmium	7440-43-9	<0.109	1.89	0.109	mg/kg	12.15.2020 19:54	U	10
Calcium	7440-70-2	**174000**	9430	1280	mg/kg	12.16.2020 14:42	D	1000
Chromium	7440-47-3	**2.79**	3.77	0.256	mg/kg	12.15.2020 19:54	J	10
Copper	7440-50-8	**1.31**	3.77	0.246	mg/kg	12.15.2020 19:54	J	10
Iron	7439-89-6	**2600**	18.9	2.21	mg/kg	12.16.2020 16:15	D	10
Lead	7439-92-1	**2.03**	1.89	0.183	mg/kg	12.15.2020 19:54		10
Magnesium	7439-95-4	**2180**	94.3	7.63	mg/kg	12.15.2020 19:54		10
Manganese	7439-96-5	**28.3**	1.89	0.240	mg/kg	12.15.2020 19:54		10
Selenium	7782-49-2	<0.468	1.89	0.468	mg/kg	12.15.2020 19:54	U	10
Silver	7440-22-4	<0.150	1.89	0.150	mg/kg	12.15.2020 19:54	U	10
Sodium	7440-23-5	**395**	94.3	14.4	mg/kg	12.15.2020 19:54		10
Thallium	7440-28-0	<0.225	1.89	0.225	mg/kg	12.15.2020 19:54	U	10
Zinc	7440-66-6	**10.7**	3.77	0.418	mg/kg	12.15.2020 19:54		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	12.12.2020 16:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	49.9	15.0	mg/kg	12.12.2020 16:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	12.12.2020 16:30	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	12.12.2020 16:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	12.12.2020 16:30	
o-Terphenyl	84-15-1	132	%	70-130	12.12.2020 16:30	**

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell18-Square74-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-004 Date Collected: 12.10.2020 10:15

Analytical Method: BTEX by SW 8260C Prep Method: SW5035A

Tech: NGA

Analyst: NGA Date Prep: 12.16.2020 20:50 % Moisture:

Seq Number: 3145207 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000205	0.000992	0.000205	mg/kg	12.17.2020 01:57	U	1
Toluene	108-88-3	**0.00171**	0.00496	0.000992	mg/kg	12.17.2020 01:57	J	1
Ethylbenzene	100-41-4	**0.000526**	0.000992	0.000333	mg/kg	12.17.2020 01:57	J	1
m,p-Xylenes	179601-23-1	**0.00212**	0.00198	0.000794	mg/kg	12.17.2020 01:57	B	1
o-Xylene	95-47-6	<0.000977	0.000992	0.000977	mg/kg	12.17.2020 01:57	U	1
Total Xylenes	1330-20-7	**0.00212**	0.000992	0.000794	mg/kg	12.17.2020 01:57		1
Total BTEX		**0.00436**	0.000992	0.000205	mg/kg	12.17.2020 01:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	53-142	12.17.2020 01:57	
1,2-Dichloroethane-D4	17060-07-0	101	%	53-150	12.17.2020 01:57	
Toluene-D8	2037-26-5	106	%	70-130	12.17.2020 01:57	

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell17-Square179-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52
Lab Sample Id: 680647-005 Date Collected: 12.10.2020 10:40

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: JYM
Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:
Seq Number: 3145006 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**78.7**	10.0	0.355	mg/kg	12.15.2020 15:55		1
Fluoride	16984-48-8	**2.32**	5.02	0.355	mg/kg	12.15.2020 15:55	J	1
Nitrate as N	14797-55-8	**16.1**	1.00	0.108	mg/kg	12.15.2020 15:55	K	1
Sulfate	14808-79-8	**36.5**	10.0	2.01	mg/kg	12.15.2020 15:55		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P
Tech: YAV
Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:
Seq Number: 3145396 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	**0.0690**	0.0604	0.0300	mg/kg	12.16.2020 16:23		1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P
Tech: VID
Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:
Seq Number: 3144946 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.00843**	0.0185	0.00356	mg/kg	12.15.2020 14:06	J	1

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell17-Square179-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-005 Date Collected: 12.10.2020 10:40

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.106	1.79	0.106	mg/kg	12.15.2020 19:57	U	10
Arsenic	7440-38-2	**2.98**	3.57	0.551	mg/kg	12.15.2020 19:57	J	10
Barium	7440-39-3	**197**	3.57	0.310	mg/kg	12.15.2020 19:57		10
Beryllium	7440-41-7	<0.165	1.79	0.165	mg/kg	12.15.2020 19:57	U	10
Cadmium	7440-43-9	<0.104	1.79	0.104	mg/kg	12.15.2020 19:57	U	10
Calcium	7440-70-2	**182000**	8930	1210	mg/kg	12.16.2020 14:45	D	1000
Chromium	7440-47-3	**1.48**	3.57	0.242	mg/kg	12.15.2020 19:57	J	10
Copper	7440-50-8	**1.20**	3.57	0.233	mg/kg	12.15.2020 19:57	J	10
Iron	7439-89-6	**1360**	17.9	2.09	mg/kg	12.16.2020 16:18	D	10
Lead	7439-92-1	**0.999**	1.79	0.173	mg/kg	12.15.2020 19:57	J	10
Magnesium	7439-95-4	**2580**	89.3	7.22	mg/kg	12.15.2020 19:57		10
Manganese	7439-96-5	**15.6**	1.79	0.227	mg/kg	12.15.2020 19:57		10
Selenium	7782-49-2	<0.443	1.79	0.443	mg/kg	12.15.2020 19:57	U	10
Silver	7440-22-4	<0.142	1.79	0.142	mg/kg	12.15.2020 19:57	U	10
Sodium	7440-23-5	**197**	89.3	13.6	mg/kg	12.15.2020 19:57		10
Thallium	7440-28-0	<0.213	1.79	0.213	mg/kg	12.15.2020 19:57	U	10
Zinc	7440-66-6	**6.37**	3.57	0.395	mg/kg	12.15.2020 19:57		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	12.12.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	12.12.2020 16:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	12.12.2020 16:51	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	12.12.2020 16:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	12.12.2020 16:51	
o-Terphenyl	84-15-1	132	%	70-130	12.12.2020 16:51	**

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell17-Square179-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-005 Date Collected: 12.10.2020 10:40

Analytical Method: BTEX by SW 8260C Prep Method: SW5035A

Tech: NGA

Analyst: NGA Date Prep: 12.16.2020 20:50 % Moisture:

Seq Number: 3145207 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	12.17.2020 02:18	U	1
Toluene	108-88-3	**0.00238**	0.00501	0.00100	mg/kg	12.17.2020 02:18	J	1
Ethylbenzene	100-41-4	**0.000661**	0.00100	0.000336	mg/kg	12.17.2020 02:18	J	1
m,p-Xylenes	179601-23-1	**0.00239**	0.00200	0.000802	mg/kg	12.17.2020 02:18	B	1
o-Xylene	95-47-6	**0.00113**	0.00100	0.000987	mg/kg	12.17.2020 02:18		1
Total Xylenes	1330-20-7	**0.00352**	0.00100	0.000802	mg/kg	12.17.2020 02:18		1
Total BTEX		**0.00656**	0.00100	0.000207	mg/kg	12.17.2020 02:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	53-142	12.17.2020 02:18	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-150	12.17.2020 02:18	
Toluene-D8	2037-26-5	104	%	70-130	12.17.2020 02:18	

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell19-Square79-S--2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52
Lab Sample Id: 680647-006 Date Collected: 12.10.2020 09:55

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: JYM
Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:
Seq Number: 3145006 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.5**	10.1	0.358	mg/kg	12.15.2020 16:32		1
Fluoride	16984-48-8	**5.89**	5.05	0.358	mg/kg	12.15.2020 16:32		1
Nitrate as N	14797-55-8	**17.5**	1.01	0.109	mg/kg	12.15.2020 16:32	K	1
Sulfate	14808-79-8	**289**	10.1	2.02	mg/kg	12.15.2020 16:32		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P
Tech: YAV
Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:
Seq Number: 3145396 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	**0.166**	0.0598	0.0297	mg/kg	12.16.2020 16:24		1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P
Tech: VID
Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:
Seq Number: 3144946 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.0149**	0.0189	0.00363	mg/kg	12.15.2020 14:08	J	1

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell19-Square79-S--2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-006 Date Collected: 12.10.2020 09:55

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.110	1.85	0.110	mg/kg	12.15.2020 20:00	U	10
Arsenic	7440-38-2	**2.83**	3.70	0.571	mg/kg	12.15.2020 20:00	J	10
Barium	7440-39-3	**254**	3.70	0.321	mg/kg	12.15.2020 20:00		10
Beryllium	7440-41-7	<0.171	1.85	0.171	mg/kg	12.15.2020 20:00	U	10
Cadmium	7440-43-9	<0.107	1.85	0.107	mg/kg	12.15.2020 20:00	U	10
Calcium	7440-70-2	**237000**	9260	1260	mg/kg	12.16.2020 14:48	D	1000
Chromium	7440-47-3	**2.79**	3.70	0.251	mg/kg	12.15.2020 20:00	J	10
Copper	7440-50-8	**1.39**	3.70	0.242	mg/kg	12.15.2020 20:00	J	10
Iron	7439-89-6	**2410**	18.5	2.17	mg/kg	12.16.2020 16:20	D	10
Lead	7439-92-1	**1.64**	1.85	0.179	mg/kg	12.15.2020 20:00	J	10
Magnesium	7439-95-4	**2520**	92.6	7.49	mg/kg	12.15.2020 20:00		10
Manganese	7439-96-5	**23.4**	1.85	0.236	mg/kg	12.15.2020 20:00		10
Selenium	7782-49-2	<0.459	1.85	0.459	mg/kg	12.15.2020 20:00	U	10
Silver	7440-22-4	<0.147	1.85	0.147	mg/kg	12.15.2020 20:00	U	10
Sodium	7440-23-5	**262**	92.6	14.2	mg/kg	12.15.2020 20:00		10
Thallium	7440-28-0	<0.221	1.85	0.221	mg/kg	12.15.2020 20:00	U	10
Zinc	7440-66-6	**11.9**	3.70	0.410	mg/kg	12.15.2020 20:00		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	49.9	15.0	mg/kg	12.12.2020 17:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	49.9	15.0	mg/kg	12.12.2020 17:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	49.9	15.0	mg/kg	12.12.2020 17:13	U	1
Total TPH	PHC635	<15.0	49.9	15.0	mg/kg	12.12.2020 17:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	12.12.2020 17:13	
o-Terphenyl	84-15-1	136	%	70-130	12.12.2020 17:13	**

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ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell19-Square79-S--2-3-201210**
Matrix: Solid
Date Received:12.10.2020 15:52
Lab Sample Id: 680647-006
Date Collected: 12.10.2020 09:55

Analytical Method: BTEX by SW 8260C
Prep Method: SW5035A
Tech: NGA
Analyst: NGA
Seq Number: 3145207
Date Prep: 12.16.2020 20:50
% Moisture:
Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100	0.000207	mg/kg	12.17.2020 02:38	U	1
Toluene	108-88-3	**0.00175**	0.00500	0.00100	mg/kg	12.17.2020 02:38	J	1
Ethylbenzene	100-41-4	**0.000520**	0.00100	0.000336	mg/kg	12.17.2020 02:38	J	1
m,p-Xylenes	179601-23-1	**0.00187**	0.00200	0.000800	mg/kg	12.17.2020 02:38	BJ	1
o-Xylene	95-47-6	<0.000985	0.00100	0.000985	mg/kg	12.17.2020 02:38	U	1
Total Xylenes	1330-20-7	**0.00187**	0.00100	0.000800	mg/kg	12.17.2020 02:38		1
Total BTEX		**0.00414**	0.00100	0.000207	mg/kg	12.17.2020 02:38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	112	%	53-142	12.17.2020 02:38	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-150	12.17.2020 02:38	
Toluene-D8	2037-26-5	101	%	70-130	12.17.2020 02:38	

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell25-Square107-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52
Lab Sample Id: 680647-007 Date Collected: 12.10.2020 11:30

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: JYM
Analyst: JYM Date Prep: 12.15.2020 12:47 % Moisture:
Seq Number: 3145006 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.93**	10.1	0.357	mg/kg	12.15.2020 16:45	J	1
Fluoride	16984-48-8	**3.96**	5.04	0.357	mg/kg	12.15.2020 16:45	J	1
Nitrate as N	14797-55-8	**8.17**	1.01	0.109	mg/kg	12.15.2020 16:45	K	1
Sulfate	14808-79-8	**58.3**	10.1	2.02	mg/kg	12.15.2020 16:45		1

Analytical Method: Total and Amenable Cyanide by SW-846 9012B Prep Method: SW9012P
Tech: YAV
Analyst: YAV Date Prep: 12.16.2020 13:00 % Moisture:
Seq Number: 3145396 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	**0.0616**	0.0576	0.0286	mg/kg	12.16.2020 16:25		1

Analytical Method: Mercury by SW 7471A Prep Method: SW7471P
Tech: VID
Analyst: ANJ Date Prep: 12.15.2020 09:40 % Moisture:
Seq Number: 3144946 Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	**0.00767**	0.0172	0.00331	mg/kg	12.15.2020 14:10	J	1

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell25-Square107-S-2-3-201210** Matrix: Solid Date Received:12.10.2020 15:52

Lab Sample Id: 680647-007 Date Collected: 12.10.2020 11:30

Analytical Method: Total RCRA Metals by SW6020A Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20 % Moisture:

Seq Number: 3145030 Basis: Wet Weight

SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.108	1.82	0.108	mg/kg	12.15.2020 20:03	U	10
Arsenic	7440-38-2	**2.51**	3.64	0.561	mg/kg	12.15.2020 20:03	J	10
Barium	7440-39-3	**472**	3.64	0.315	mg/kg	12.15.2020 20:03		10
Beryllium	7440-41-7	<0.168	1.82	0.168	mg/kg	12.15.2020 20:03	U	10
Cadmium	7440-43-9	<0.105	1.82	0.105	mg/kg	12.15.2020 20:03	U	10
Calcium	7440-70-2	**228000**	9090	1230	mg/kg	12.16.2020 14:51	D	1000
Chromium	7440-47-3	**1.81**	3.64	0.247	mg/kg	12.15.2020 20:03	J	10
Copper	7440-50-8	**1.58**	3.64	0.237	mg/kg	12.15.2020 20:03	J	10
Iron	7439-89-6	**1350**	18.2	2.13	mg/kg	12.16.2020 16:23	D	10
Lead	7439-92-1	**0.807**	1.82	0.176	mg/kg	12.15.2020 20:03	J	10
Magnesium	7439-95-4	**2990**	90.9	7.35	mg/kg	12.15.2020 20:03		10
Manganese	7439-96-5	**14.1**	1.82	0.231	mg/kg	12.15.2020 20:03		10
Selenium	7782-49-2	<0.451	1.82	0.451	mg/kg	12.15.2020 20:03	U	10
Silver	7440-22-4	<0.144	1.82	0.144	mg/kg	12.15.2020 20:03	U	10
Sodium	7440-23-5	**185**	90.9	13.9	mg/kg	12.15.2020 20:03		10
Thallium	7440-28-0	<0.217	1.82	0.217	mg/kg	12.15.2020 20:03	U	10
Zinc	7440-66-6	**6.47**	3.64	0.402	mg/kg	12.15.2020 20:03		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00 % Moisture:

Seq Number: 3144736 Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	49.8	14.9	mg/kg	12.12.2020 17:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	49.8	14.9	mg/kg	12.12.2020 17:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	49.8	14.9	mg/kg	12.12.2020 17:34	U	1
Total TPH	PHC635	<14.9	49.8	14.9	mg/kg	12.12.2020 17:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	12.12.2020 17:34	
o-Terphenyl	84-15-1	134	%	70-130	12.12.2020 17:34	**

Certificate of Analytical Results 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **Cell25-Square107-S-2-3-201210**
Matrix: Solid
Date Received:12.10.2020 15:52
Lab Sample Id: 680647-007
Date Collected: 12.10.2020 11:30

Analytical Method: BTEX by SW 8260C
Prep Method: SW5035A
Tech: NGA
Analyst: NGA
Seq Number: 3145207
Date Prep: 12.16.2020 20:50
% Moisture:
Basis: Wet Weight
SUB: T104704215-20-38

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.000259**	0.000996	0.000206	mg/kg	12.17.2020 03:10	J	1
Toluene	108-88-3	**0.00212**	0.00498	0.000996	mg/kg	12.17.2020 03:10	J	1
Ethylbenzene	100-41-4	**0.000677**	0.000996	0.000334	mg/kg	12.17.2020 03:10	J	1
m,p-Xylenes	179601-23-1	**0.00229**	0.00199	0.000797	mg/kg	12.17.2020 03:10	B	1
o-Xylene	95-47-6	<0.000981	0.000996	0.000981	mg/kg	12.17.2020 03:10	U	1
Total Xylenes	1330-20-7	**0.00229**	0.000996	0.000797	mg/kg	12.17.2020 03:10		1
Total BTEX		**0.00535**	0.000996	0.000206	mg/kg	12.17.2020 03:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	53-142	12.17.2020 03:10	
1,2-Dichloroethane-D4	17060-07-0	100	%	53-150	12.17.2020 03:10	
Toluene-D8	2037-26-5	104	%	70-130	12.17.2020 03:10	

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717008-1-BLK** Matrix: SOLID

Lab Sample Id: **7717008-1-BLK**

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.12.2020 09:00

Seq Number: 3144736

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.00	50.00		mg/kg	12.12.2020 13:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.00	50.00		mg/kg	12.12.2020 13:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.00	50.00		mg/kg	12.12.2020 13:38	U	1

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717066-1-BLK** Matrix: SOLID

Lab Sample Id: **7717066-1-BLK**

Analytical Method: **Total RCRA Metals by SW6020A** Prep Method: SW3051

Tech: PJB

Analyst: DEP Date Prep: 12.14.2020 14:20

Seq Number: 3145030 **SUB: T104704215-20-38**

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Antimony	7440-36-0	<0.0119	0.200		mg/kg	12.15.2020 17:05	U	1
Arsenic	7440-38-2	<0.0617	0.400		mg/kg	12.15.2020 17:05	U	1
Barium	7440-39-3	<0.0347	0.400		mg/kg	12.15.2020 17:05	U	1
Beryllium	7440-41-7	<0.0185	0.200		mg/kg	12.15.2020 17:05	U	1
Cadmium	7440-43-9	<0.0116	0.200		mg/kg	12.15.2020 17:05	U	1
Calcium	7440-70-2	<1.36	10.0		mg/kg	12.15.2020 17:05	U	1
Chromium	7440-47-3	<0.0271	0.400		mg/kg	12.15.2020 17:05	U	1
Copper	7440-50-8	<0.0261	0.400		mg/kg	12.15.2020 17:05	U	1
Iron	7439-89-6	<0.234	2.00		mg/kg	12.15.2020 17:05	U	1
Lead	7439-92-1	<0.0194	0.200		mg/kg	12.15.2020 17:05	U	1
Magnesium	7439-95-4	<0.808	10.0		mg/kg	12.15.2020 17:05	U	1
Manganese	7439-96-5	<0.0255	0.200		mg/kg	12.15.2020 17:05	U	1
Selenium	7782-49-2	<0.0496	0.200		mg/kg	12.15.2020 17:05	U	1
Silver	7440-22-4	<0.0159	0.200		mg/kg	12.15.2020 17:05	U	1
Sodium	7440-23-5	<1.53	10.0		mg/kg	12.15.2020 17:05	U	1
Thallium	7440-28-0	<0.0239	0.200		mg/kg	12.15.2020 17:05	U	1
Zinc	7440-66-6	<0.0443	0.400		mg/kg	12.15.2020 17:05	U	1

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717109-1-BLK** Matrix: SOLID

Lab Sample Id: **7717109-1-BLK**

Analytical Method: **Mercury by SW 7471A** Prep Method: SW7471P

Tech: VID

Analyst: ANJ Date Prep: 12.15.2020 09:40 **SUB: T104704215-20-38**

Seq Number: 3144946

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Mercury	7439-97-6	<0.003372	0.01754		mg/kg	12.15.2020 13:29	U	1

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717124-1-BLK** Matrix: SOLID

Lab Sample Id: **7717124-1-BLK**

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P

Tech: JYM

Analyst: JYM Date Prep: 12.15.2020 12:47 **SUB: T104704215-20-38**

Seq Number: 3145006

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<0.354	10.0		mg/kg	12.15.2020 14:04	U	1
Fluoride	16984-48-8	<0.354	5.00		mg/kg	12.15.2020 14:04	U	1
Nitrate as N	14797-55-8	<0.108	1.00		mg/kg	12.15.2020 14:04	U	1
Sulfate	14808-79-8	<0.432	10.0		mg/kg	12.15.2020 14:04	U	1

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717272-1-BLK** Matrix: SOLID

Lab Sample Id: **7717272-1-BLK**

Analytical Method: **Total and Amenable Cyanide by SW-846 9012B** Prep Method: E335.4P

Tech: YAV

Analyst: YAV Date Prep: 12.16.2020 13:00 **SUB: T104704215-20-38**

Seq Number: 3145396

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Cyanide, Total	57-12-5	<0.0298	0.0600		mg/kg	12.16.2020 16:06	U	1

Blank Summary 680647

ARCADIS, Midland, TX

Jal Landfarm

Sample Id: **7717340-1-BLK** Matrix: SOLID

Lab Sample Id: **7717340-1-BLK**

Analytical Method: **BTEX by SW 8260C** Prep Method: SW5035A

Tech: NGA

Analyst: NGA Date Prep: 12.16.2020 20:50 **SUB: T104704215-20-38**

Seq Number: 3145207

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000207	0.00100		mg/kg	12.17.2020 00:40	U	1
Toluene	108-88-3	<0.00100	0.00500		mg/kg	12.17.2020 00:40	U	1
Ethylbenzene	100-41-4	<0.000336	0.00100		mg/kg	12.17.2020 00:40	U	1
m,p-Xylenes	179601-23-1	0.00116	0.00200		mg/kg	12.17.2020 00:40	BJ	1
o-Xylene	95-47-6	<0.000985	0.00100		mg/kg	12.17.2020 00:40	U	1

Form 2 - Surrogate Recoveries

Project Name: Jal Landfarm

Report Date: 12282020

Work Orders : 680647 **Project ID:**

Lab Batch #: 3145207 **Sample:** 7717340-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.16.2020 22:30 **SURROGATE RECOVERY STUDY**

BTEX by SW 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0499	0.0500	100	53-142	
1,2-Dichloroethane-D4	0.0498	0.0500	100	53-150	
Toluene-D8	0.0516	0.0500	103	70-130	

Lab Batch #: 3145207 **Sample:** 7717340-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.16.2020 22:51 **SURROGATE RECOVERY STUDY**

BTEX by SW 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0507	0.0500	101	53-142	
1,2-Dichloroethane-D4	0.0490	0.0500	98	53-150	
Toluene-D8	0.0519	0.0500	104	70-130	

Lab Batch #: 3145207 **Sample:** 680647-001 S / MS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.16.2020 23:25 **SURROGATE RECOVERY STUDY**

BTEX by SW 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0517	0.0500	103	53-142	
1,2-Dichloroethane-D4	0.0493	0.0500	99	53-150	
Toluene-D8	0.0514	0.0500	103	70-130	

Lab Batch #: 3145207 **Sample:** 680647-001 SD / MSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.16.2020 23:32 **SURROGATE RECOVERY STUDY**

BTEX by SW 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0525	0.0500	105	53-142	
1,2-Dichloroethane-D4	0.0519	0.0500	104	53-150	
Toluene-D8	0.0511	0.0500	102	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Jal Landfarm

Report Date: 12282020

Work Orders : 680647 **Project ID:**

Lab Batch #: 3145207 **Sample:** 7717340-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.17.2020 00:40 **SURROGATE RECOVERY STUDY**

BTEX by SW 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0527	0.0500	105	53-142	
1,2-Dichloroethane-D4	0.0489	0.0500	98	53-150	
Toluene-D8	0.0524	0.0500	105	70-130	

Lab Batch #: 3144736 **Sample:** 7717008-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.12.2020 13:38 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.93	100.0	96	70-130	
o-Terphenyl	62.26	50.00	125	70-130	

Lab Batch #: 3144736 **Sample:** 7717008-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.12.2020 13:59 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116.5	100.0	117	70-130	
o-Terphenyl	70.45	50.00	141	70-130	**

Lab Batch #: 3144736 **Sample:** 7717008-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.12.2020 14:21 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111.8	100.0	112	70-130	
o-Terphenyl	69.28	50.00	139	70-130	**

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Jal Landfarm

Report Date: 12282020

Work Orders : 680647 **Project ID:**

Lab Batch #: 3144736 **Sample:** 680647-001 S / MS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.12.2020 15:04 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100.6	99.60	101	70-130	
o-Terphenyl	56.85	49.80	114	70-130	

Lab Batch #: 3144736 **Sample:** 680647-001 SD / MSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12.12.2020 15:26 **SURROGATE RECOVERY STUDY**

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101.0	99.70	101	70-130	
o-Terphenyl	58.48	49.90	117	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

QC Summary 680647

ARCADIS

Jal Landfarm

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3145006 — Matrix: Solid — Date Prep: 12.15.2020
MB Sample Id: 7717124-1-BLK — LCS Sample Id: 7717124-1-BKS — LCSD Sample Id: 7717124-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.354	100	97.3	97	96.2	96	80-120	1	20	mg/kg	12.15.2020 14:17	
Fluoride	<0.354	100	102	102	101	101	80-120	1	20	mg/kg	12.15.2020 14:17	
Nitrate as N	<0.108	100	96.7	97	95.5	96	80-120	1	20	mg/kg	12.15.2020 14:17	
Sulfate	<0.432	100	97.8	98	96.3	96	80-120	2	20	mg/kg	12.15.2020 14:17	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: SW9056P
Seq Number: 3145006 — Matrix: Soil — Date Prep: 12.15.2020
Parent Sample Id: 679661-001 — MS Sample Id: 679661-001 S — MSD Sample Id: 679661-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.1	100	117	98	117	98	80-120	0	20	mg/kg	12.15.2020 17:09	
Fluoride	<0.354	100	108	108	108	108	80-120	0	20	mg/kg	12.15.2020 17:09	
Nitrate as N	10.1	100	112	102	112	102	80-120	0	20	mg/kg	12.15.2020 17:09	
Sulfate	14.9	100	118	103	118	103	80-120	0	20	mg/kg	12.15.2020 17:09	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 3145006 — Matrix: Solid — Date Prep: 12.15.2020
Parent Sample Id: 680647-001 — MS Sample Id: 680647-001 S — MSD Sample Id: 680647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.26	100	104	95	104	95	80-120	0	20	mg/kg	12.15.2020 14:53	
Fluoride	6.82	100	113	106	113	106	80-120	0	20	mg/kg	12.15.2020 14:53	
Nitrate as N	12.5	100	113	101	113	101	80-120	0	20	mg/kg	12.15.2020 14:53	
Sulfate	95.7	100	197	101	198	102	80-120	1	20	mg/kg	12.15.2020 14:53	

Analytical Method: Total and Amenable Cyanide by SW-846 9012B — Prep Method: E335.4P
Seq Number: 3145396 — Matrix: Solid — Date Prep: 12.16.2020
MB Sample Id: 7717272-1-BLK — LCS Sample Id: 7717272-1-BKS

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	Limits	Units	Analysis Date	Flag
Cyanide, Total	<0.0298	1.20	1.18	98	90-110	mg/kg	12.16.2020 16:07	

Analytical Method: Total and Amenable Cyanide by SW-846 9012B — Prep Method: E335.4P
Seq Number: 3145396 — Matrix: Soil — Date Prep: 12.16.2020
Parent Sample Id: 680510-005 — MS Sample Id: 680510-005 S — MSD Sample Id: 680510-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Cyanide, Total	2.38	2.40	4.79	100	4.83	102	90-110	1	20	mg/kg	12.16.2020 16:46	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 680647

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Analytical Method: Mercury by SW 7471A — Prep Method: SW7471P
Seq Number: 3144946 — Matrix: Solid — Date Prep: 12.15.2020
MB Sample Id: 7717109-1-BLK — LCS Sample Id: 7717109-1-BKS — LCSD Sample Id: 7717109-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.003559	0.1850	0.1948	105	0.1863	104	80-120	4	20	mg/kg	12.15.2020 13:31	

Analytical Method: Mercury by SW 7471A — Prep Method: SW7471P
Seq Number: 3144946 — Matrix: Soil — Date Prep: 12.15.2020
Parent Sample Id: 680604-004 — MS Sample Id: 680604-004 S — MSD Sample Id: 680604-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	<0.004012	0.2090	0.2435	117	0.2428	116	75-125	0	20	mg/kg	12.15.2020 13:38	

Analytical Method: Mercury by SW 7471A — Prep Method: SW7471P
Seq Number: 3144946 — Matrix: Solid — Date Prep: 12.15.2020
Parent Sample Id: 680647-007 — MS Sample Id: 680647-007 S — MSD Sample Id: 680647-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Mercury	0.007672	0.1750	0.1661	91	0.1665	92	75-125	0	20	mg/kg	12.15.2020 14:12	

Analytical Method: Total RCRA Metals by SW6020A — Prep Method: SW3051
Seq Number: 3145030 — Matrix: Solid — Date Prep: 12.14.2020
MB Sample Id: 7717066-1-BLK — LCS Sample Id: 7717066-1-BKS — LCSD Sample Id: 7717066-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<0.0114	9.62	9.13	95	9.47	97	80-120	4	20	mg/kg	12.15.2020 17:08	
Arsenic	<0.0593	9.62	9.43	98	9.67	99	80-120	3	20	mg/kg	12.15.2020 17:08	
Barium	<0.0334	9.62	9.48	99	9.82	100	80-120	4	20	mg/kg	12.15.2020 17:08	
Beryllium	<0.0178	9.62	9.54	99	9.81	100	80-120	3	20	mg/kg	12.15.2020 17:08	
Cadmium	<0.0112	9.62	9.54	99	9.72	99	80-120	2	20	mg/kg	12.15.2020 17:08	
Calcium	<1.31	240	264	110	258	105	80-120	2	20	mg/kg	12.15.2020 17:08	
Chromium	<0.0261	9.62	9.41	98	9.56	98	80-120	2	20	mg/kg	12.15.2020 17:08	
Copper	<0.0251	9.62	9.46	98	9.64	98	80-120	2	20	mg/kg	12.15.2020 17:08	
Iron	<0.225	48.1	47.0	98	47.8	98	80-120	2	20	mg/kg	12.15.2020 17:08	
Lead	<0.0186	9.62	9.42	98	9.67	99	80-120	3	20	mg/kg	12.15.2020 17:08	
Magnesium	<0.777	240	232	97	239	98	80-120	3	20	mg/kg	12.15.2020 17:08	
Manganese	<0.0245	9.62	9.41	98	9.61	98	80-120	2	20	mg/kg	12.15.2020 17:08	
Selenium	<0.0477	9.62	9.54	99	9.87	101	80-120	3	20	mg/kg	12.15.2020 17:08	
Silver	<0.0153	4.81	4.85	101	4.91	100	80-120	1	20	mg/kg	12.15.2020 17:08	
Sodium	<1.47	240	229	95	236	96	80-120	3	20	mg/kg	12.15.2020 17:08	
Thallium	<0.0230	9.62	9.41	98	9.70	99	80-120	3	20	mg/kg	12.15.2020 17:08	
Zinc	<0.0426	9.62	9.66	100	9.77	100	80-120	1	20	mg/kg	12.15.2020 17:08	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 680647

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Analytical Method: **Total RCRA Metals by SW6020A** Prep Method: SW3051
Seq Number: 3145030 Matrix: Soil Date Prep: 12.14.2020
Parent Sample Id: 680524-001 MS Sample Id: 680524-001 S MSD Sample Id: 680524-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Antimony	<0.0992	8.33	8.54	103	8.75	103	75-125	2	30	mg/kg	12.15.2020 17:16	
Arsenic	4.34	8.33	12.6	99	12.7	99	75-125	1	30	mg/kg	12.15.2020 17:16	
Barium	175	8.33	169	0	172	0	75-125	2	30	mg/kg	12.15.2020 17:16	X
Beryllium	<0.154	8.33	9.33	112	9.38	111	75-125	1	30	mg/kg	12.15.2020 17:16	
Cadmium	<0.0967	8.33	8.60	103	8.89	105	75-125	3	30	mg/kg	12.15.2020 17:16	
Calcium	170000	208	158000	0	162000	0	75-125	3	30	mg/kg	12.15.2020 17:16	X
Chromium	10.8	8.33	18.8	96	19.0	97	75-125	1	30	mg/kg	12.15.2020 17:16	
Copper	15.4	8.33	22.9	90	23.5	96	75-125	3	30	mg/kg	12.15.2020 17:16	
Iron	11800	41.7	11000	0	11300	0	75-125	3	30	mg/kg	12.15.2020 17:16	X
Lead	5.95	8.33	14.2	99	14.3	99	75-125	1	30	mg/kg	12.15.2020 17:16	
Magnesium	2670	208	2670	0	2750	38	75-125	3	30	mg/kg	12.15.2020 17:16	X
Manganese	74.4	8.33	78.4	48	79.5	60	75-125	1	30	mg/kg	12.15.2020 17:16	X
Selenium	<0.413	8.33	9.04	109	9.43	111	75-125	4	30	mg/kg	12.15.2020 17:16	
Silver	<0.132	4.17	4.23	101	4.27	101	75-125	1	30	mg/kg	12.15.2020 17:16	
Sodium	767	208	916	72	941	82	75-125	3	30	mg/kg	12.15.2020 17:16	X
Thallium	<0.199	8.33	8.82	106	8.96	106	75-125	2	30	mg/kg	12.15.2020 17:16	
Zinc	72.8	8.33	77.3	54	78.4	66	75-125	1	30	mg/kg	12.15.2020 17:16	X

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3144736 Matrix: Solid Date Prep: 12.12.2020
MB Sample Id: 7717008-1-BLK LCS Sample Id: 7717008-1-BKS LCSD Sample Id: 7717008-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.00	1000	1105	111	1115	112	70-130	1	20	mg/kg	12.12.2020 13:59	
Diesel Range Organics (DRO)	<15.00	1000	1155	116	1173	117	70-130	2	20	mg/kg	12.12.2020 13:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		117		112		70-130	%	12.12.2020 13:59
o-Terphenyl	125		141	**	139	**	70-130	%	12.12.2020 13:59

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3144736 Matrix: Solid Date Prep: 12.12.2020
MB Sample Id: 7717008-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.00	mg/kg	12.12.2020 13:38	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 680647

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Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3144736 Matrix: Solid Date Prep: 12.12.2020
Parent Sample Id: 680647-001 MS Sample Id: 680647-001 S MSD Sample Id: 680647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<14.94	996.0	1055	106	1069	107	70-130	1	20	mg/kg	12.12.2020 15:04	
Diesel Range Organics (DRO)	<14.94	996.0	1129	113	1149	115	70-130	2	20	mg/kg	12.12.2020 15:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		101		70-130	%	12.12.2020 15:04
o-Terphenyl	114		117		70-130	%	12.12.2020 15:04

Analytical Method: **BTEX by SW 8260C** Prep Method: SW5035A
Seq Number: 3145207 Matrix: Solid Date Prep: 12.16.2020
MB Sample Id: 7717340-1-BLK LCS Sample Id: 7717340-1-BKS LCSD Sample Id: 7717340-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000207	0.0500	0.0539	108	0.0522	104	62-132	3	25	mg/kg	12.16.2020 22:30	
Toluene	<0.00100	0.0500	0.0536	107	0.0521	104	66-124	3	25	mg/kg	12.16.2020 22:30	
Ethylbenzene	<0.000336	0.0500	0.0547	109	0.0530	106	71-134	3	25	mg/kg	12.16.2020 22:30	
m,p-Xylenes	0.00116	0.100	0.109	109	0.104	104	69-128	5	25	mg/kg	12.16.2020 22:30	
o-Xylene	<0.000985	0.0500	0.0539	108	0.0527	105	72-131	2	25	mg/kg	12.16.2020 22:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	105		100		101		53-142	%	12.16.2020 22:30
1,2-Dichloroethane-D4	98		100		98		53-150	%	12.16.2020 22:30
Toluene-D8	105		103		104		70-130	%	12.16.2020 22:30

Analytical Method: **BTEX by SW 8260C** Prep Method: SW5035A
Seq Number: 3145207 Matrix: Solid Date Prep: 12.16.2020
Parent Sample Id: 680647-001 MS Sample Id: 680647-001 S MSD Sample Id: 680647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000206	0.0498	0.0506	102	0.0513	103	62-132	1	25	mg/kg	12.16.2020 23:25	
Toluene	0.00162	0.0498	0.0533	104	0.0516	100	66-124	3	25	mg/kg	12.16.2020 23:25	
Ethylbenzene	0.000570	0.0498	0.0510	101	0.0504	100	71-134	1	25	mg/kg	12.16.2020 23:25	
m,p-Xylenes	0.00194	0.0996	0.0999	98	0.0985	97	69-128	1	25	mg/kg	12.16.2020 23:25	
o-Xylene	<0.000981	0.0498	0.0503	101	0.0496	100	72-131	1	25	mg/kg	12.16.2020 23:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	103		105		53-142	%	12.16.2020 23:25
1,2-Dichloroethane-D4	99		104		53-150	%	12.16.2020 23:25
Toluene-D8	103		102		70-130	%	12.16.2020 23:25

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Eurofins Xenco
4147 Green Briar Dr
Stafford TX 77477
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J. Steinmann	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-75751-20436.8
Client Contact: Sarah Johnson	Phone: 619 851 8792	E-Mail: Sachin.Kudchadkar@Eurofinset.com	State of Origin: NM	Page: Page 1 of 1
Company: ARCADIS U.S., Inc.	PWSID:			Job #: 6800647
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days): Std			
State, Zip: TX, 79701	Compliance Project: Δ Yes Δ No			
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: JAL Landfarm	Project #:			
Site: Landfarm	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)	300_: Cl, F, NO3, SO4	8015B_GRO/DRO/ORO	8260- BTEX	6020- Ca, Mg, Na, K, As, Sb, Ba, Be, Cd, Cr, Cu, Fe, Pb, Mn, Se, Ag, Tl, Zn	7471- Hg	9012- Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
Cell26-square36-S-2-3-201210	12/10/20	1230	G	Solid									2	
Cell21-square40-S-2-3-201210		1100		Solid										
Cell20-square92-S-2-3-201210		0945		Solid										
Cell18-square74-S-2-3-201210		1015		Solid										
Cell17-Square179-S-2-3-201210		1040		Solid										
Cell19-Square79-S-2-3-201210		0955		Solid										
Cell25-square107-S-2-3-201210		1130		Solid										
				Solid										
	9p	12/10		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: 12/10/20 1550	Company Arcadis	Received by:	Date/Time: 12/10/20	Company Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1550	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: IR8 3.4/3.9

Ver: 01/16/2019

Received by OCD: 5/23/2022 10:59:25 AM
Final 1.001
Page 40 of 44
Released to Imaging: 5/25/2022 8:55:33 AM

Inter-Office Shipment

IOS Number : 74643

Date/Time:	12.10.2020	Created by:	Brianna Teel	Please send report to:	Sachin Kudchadkar
Lab# From:	**Midland**	Delivery Priority:		Address:	1211 W. Florida Ave
Lab# To:	**Houston**	Air Bill No.:	772332235241	E-Mail:	

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
680647-001	S	Cell26-Square36-S-2-3	12.10.2020 12:30	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-001	S	Cell26-Square36-S-2-3	12.10.2020 12:30	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 12:30**	SGK	CL F NO3N SO4	
680647-001	S	Cell26-Square36-S-2-3	12.10.2020 12:30	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-001	S	Cell26-Square36-S-2-3	12.10.2020 12:30	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-001	S	Cell26-Square36-S-2-3	12.10.2020 12:30	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-002	S	Cell21-Square40-S-2-3	12.10.2020 11:00	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-002	S	Cell21-Square40-S-2-3	12.10.2020 11:00	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-002	S	Cell21-Square40-S-2-3	12.10.2020 11:00	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-002	S	Cell21-Square40-S-2-3	12.10.2020 11:00	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-002	S	Cell21-Square40-S-2-3	12.10.2020 11:00	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 11:00**	SGK	CL F NO3N SO4	
680647-003	S	Cell20-Square92-S-2-3	12.10.2020 09:45	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-003	S	Cell20-Square92-S-2-3	12.10.2020 09:45	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-003	S	Cell20-Square92-S-2-3	12.10.2020 09:45	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 09:45**	SGK	CL F NO3N SO4	
680647-003	S	Cell20-Square92-S-2-3	12.10.2020 09:45	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-003	S	Cell20-Square92-S-2-3	12.10.2020 09:45	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-004	S	Cell18-Square74-S-2-3	12.10.2020 10:15	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-004	S	Cell18-Square74-S-2-3	12.10.2020 10:15	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-004	S	Cell18-Square74-S-2-3	12.10.2020 10:15	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-004	S	Cell18-Square74-S-2-3	12.10.2020 10:15	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 10:15**	SGK	CL F NO3N SO4	
680647-004	S	Cell18-Square74-S-2-3	12.10.2020 10:15	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-005	S	Cell17-Square179-S-2-	12.10.2020 10:40	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-005	S	Cell17-Square179-S-2-	12.10.2020 10:40	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-005	S	Cell17-Square179-S-2-	12.10.2020 10:40	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-005	S	Cell17-Square179-S-2-	12.10.2020 10:40	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 10:40**	SGK	CL F NO3N SO4	
680647-005	S	Cell17-Square179-S-2-	12.10.2020 10:40	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	

Inter-Office Shipment

IOS Number : 74643

Date/Time:	12.10.2020	Created by:	Brianna Teel	Please send report to:	Sachin Kudchadkar
Lab# From:	**Midland**	Delivery Priority:		Address:	1211 W. Florida Ave
Lab# To:	**Houston**	Air Bill No.:	772332235241	E-Mail:	

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
680647-006	S	Cell19-Square79-S--2-	12.10.2020 09:55	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-006	S	Cell19-Square79-S--2-	12.10.2020 09:55	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	
680647-006	S	Cell19-Square79-S--2-	12.10.2020 09:55	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 09:55**	SGK	CL F NO3N SO4	
680647-006	S	Cell19-Square79-S--2-	12.10.2020 09:55	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-006	S	Cell19-Square79-S--2-	12.10.2020 09:55	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-007	S	Cell25-Square107-S-2-	12.10.2020 11:30	SW8260CBTEX	BTEX by SW 8260C	12.16.2020	12.24.2020	SGK	BZ BZME EBZ XYLENE	
680647-007	S	Cell25-Square107-S-2-	12.10.2020 11:30	E300	Inorganic Anions by EPA 300/300.1	12.16.2020	**12.12.2020 11:30**	SGK	CL F NO3N SO4	
680647-007	S	Cell25-Square107-S-2-	12.10.2020 11:30	SW9012B	Total and Amenable Cyanide by SW-84	12.16.2020	12.24.2020	SGK	CN CYA_AMANABLE	
680647-007	S	Cell25-Square107-S-2-	12.10.2020 11:30	SW6020RCRA	Total RCRA Metals by SW6020A	12.16.2020	06.08.2021	SGK	AG AS BA BE CA CD CI	
680647-007	S	Cell25-Square107-S-2-	12.10.2020 11:30	SW7471A	Mercury by SW 7471A	12.16.2020	01.07.2021	SGK	HG	

Inter Office Shipment or Sample Comments:

Relinquished By: Brianna Teel

Brianna Teel

Date Relinquished: 12.10.2020

Received By: [redacted]

Hypatia Keys

Date Received: 12.11.2020

Cooler Temperature: 1.1

Eurofins Xenco, LLC

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 74643

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : hou-188

Sent By: Brianna Teel **Date Sent:** 12.10.2020 03.59 PM

Received By: Hypatia Keys **Date Received:** 12.11.2020 09.30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 12.11.2020
Hypatia Keys

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: ARCADIS

Date/ Time Received: 12.10.2020 03.52.07 PM

Work Order #: 680647

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

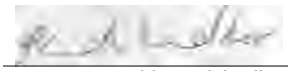
Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	3.9	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Xenco Stafford
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by:  Date: 12.10.2020

Brianna Teel

Checklist reviewed by:  Date: 12.10.2020

Sachin Kudchadkar

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 109338

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 109338
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	Please ensure in future release response sampling events that the four randomly selected, independent samples required of 19.15.36.15.E(5) NMAC are randomly located around each sample location(s) of the initial release detection location and/or locations within each landfarm cell that prompted the release response sampling, instead of randomly taking the four samples across the 4-5 acre landfarm cell. CEMC should be assessing the individual detected releases from the routine vadose zone monitoring during the release response sampling required of 19.15.36.15.E(5) NMAC.	5/25/2022