



**Armando Martinez**  
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**Chevron Environmental Management Company**  
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February 14, 2022

New Mexico Oil Conservation Division, District II  
811 S. First Ct  
Artesia, NM 88210

**Re: Onsurez 2  
2019/2020 Historical Excavation Backfill &  
Subsequent Site Assessment Report  
2RP-4255  
Eddy County, New Mexico**

Dear whom it concerns,

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

- Onsurez 2 – February 14, 2022 Site Assessment Report

The Soil Assessment Report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853 or myself at 575.586.0811, should you have any questions.

Sincerely,

A handwritten signature in blue ink that appears to read "Armando Martinez".

Armando Martinez

Encl. Onsurez 2, 2RP-4255 2019/2020 Historical Excavation Backfill & Subsequent Site Assessment Report

cc. Amy Barnhill, Chevron/MCBU

District I  
1625 N. French Dr., Hobbs, NM 88240  
 District II  
811 S. First St., Artesia, NM 88210  
 District III  
1000 Rio Brazos Road, Aztec, NM 87410  
 District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |               |
|----------------|---------------|
| Incident ID    | NAB1717138268 |
| District RP    | 2RP-4255      |
| Facility ID    | 30-015-26472  |
| Application ID | pAB1717138139 |

## Release Notification

### Responsible Party

|   |  |
|---|--|
| Responsible Party: Chevron USA Inc.             | OGRID                                      |
| Contact Name: Armando Martinez                  | Contact Telephone: 575.586.7639            |
| Contact email: amarti@chevron.com               | Incident # (assigned by OCD): NAB171738268 |
| Contact mailing address: jmichelson@chevron.com |  |

### Location of Release Source

Latitude 32.3219452 Longitude -104.0600967  
(NAD 83 in decimal degrees to 5 decimal places)

|  |                                    |
|--|------------------------------------|
| Site Name: Onsurez 2                   | Site Type: Wellhead                |
| Date Release Discovered: June 13, 2017 | API# (if applicable): 30-015-26472 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| F           | 11      | 23S      | 28E   | Eddy   |

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> Crude Oil      | Volume Released (bbls): 1 bbl  | Volume Recovered (bbls): 1 bbl                                      |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls): 1 bbl  | Volume Recovered (bbls): 1 bbl                                      |
|  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)   |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)  |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                             |

Cause of Release: A leaking stuffing box released approximately 1 bbl of produced water and crude oil. The release occurred during a rain event and impacted the area surrounding the wellhead.

|                |               |
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|   |  |
|---|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?  | If YES, for what reason(s) does the responsible party consider this a major release?<br><br><br><br><br><br><br><br><br> |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |  |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>15</u> (ft bgs)  |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

|                |               |
|----------------|---------------|
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**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Project Manager  
Signature: Armando Martinez Date: 2/21/22  
email: amarti@chevron.com Telephone: 575.586.7639

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | NAB1717138268 |
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| Facility ID    | 30-015-26472  |
| Application ID | pAB1717138139 |

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Ammando Martinez Title: Project Manager

Signature:  Date: 2/21/22

email: amarti@chevron.com Telephone: 575.586.7639

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 10/25/2022

Printed Name: Bradford Billings Title: E.Spec.A



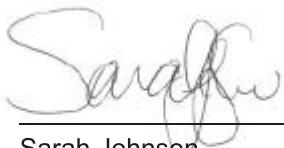
Chevron Environmental Management Company

# **2019/2020 HISTORICAL EXCAVATION BACKFILL AND SUBSEQUENT SITE ASSESSMENT REPORT**

Onsurez 2, East Loving Field  
Section 11, Township 23 South  
Range 28 East  
Eddy County, New Mexico  
Case No. 2RP-4255

February 2022

2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report



Sarah Johnson  
Scientist II



Scott Foord, PG  
Certified Project Manager

## 2019/2020 Historical Excavation Backfill and Subsequent Site Assessment Report

Onsurez 2, East Loving Field

Prepared for:

Jason Michelson  
Project Manager  
Chevron Environmental Management  
Company  
1500 Louisiana Street  
Houston, Texas 77002

Prepared by:

Arcadis U.S., Inc.  
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Texas 79701  
Tel 432 687 5400  
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Our Ref:

30051441

Date:

February 2022

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## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

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## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

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## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

## 1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) submits herein, on behalf of Chevron Environmental Management Company (CEMC), the following report which summarizes activities associated with backfilling of a historical excavation and subsequent soil and groundwater assessment activities conducted in 2019 and 2020 at the Onsurez 2 (Site). The Site is located within the East Loving Field.

The Site is located off North Donaldson Farm Road, approximately 3.22 miles northeast of Loving, New Mexico, in the southeast quarter (SE/4) of the northwest quarter (NW/4), Section 11, Township 23 South, Range 28 East, Eddy County, New Mexico. The Site's coordinates are latitude N 32.321945° and longitude W -104.060096°.

The topography slopes gently east toward the Pecos River located approximately 0.17 miles east of the Site. A Site Location Map is presented as **Figure 1**. Additional Site background information is included in **Appendix A**.

## 2 SOIL ASSESSMENT ACTIVITIES

### 2.1 2019 Soil Assessment Activities – Historical Excavation

On June 6, 2019, Arcadis personnel collected four soil samples (OS1 through OS4) from the bottom of a historical open excavation that was performed by Rockcliff Operating New Mexico, LLC (Rockcliff) at the Site (additional details in regard to the historical excavation are presented in the *Site Investigation Report & Corrective Action Plan* submitted to the New Mexico Oil Conservation Division [NMOCD] in August 2017). The soil samples were collected with a stainless-steel trowel at 0-0.5' feet below the base of the open excavation at depths ranging from 2 feet to 9 feet below ground surface (bgs). The soil samples were collected in two- and four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via FedEx. Upon receipt by laboratory, the soil samples were analyzed for chloride; total petroleum hydrocarbons as gasoline (TPH-GRO), TPH as diesel (TPH-DRO), TPH as oil (TPH-ORO); and benzene, toluene, ethylbenzene and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Methods 300, 8015 and 8021B, respectively. The soil sample locations and analytical results are presented in **Figure 2**.

#### 2.1.1 2019 Soil Analytical Results

The analytical results for each soil sample were compared to the New Mexico Administration Code (NMAC) screening levels for chloride, TPH, and BTEX for a site with a depth to groundwater less than 50 feet bgs. A cumulative summary of the soil analytical results is presented in **Table 1**. Copies of the 2019 certified analytical reports and chain-of-custody documentation from Eurofins TestAmerica are presented in **Appendix B**.

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

### 2.1.2 Chloride

- Chloride exceeded the NMAC screening standard of 600 milligrams per kilogram (mg/Kg) in 2 of the 4 soil samples collected from total depths greater than 4 feet bgs within the footprint of the historical excavation:
  - 1,630 mg/Kg at OS2 (0 – 0.5 feet bgs); and
  - 1,760 mg/Kg at OS4 (0 – 0.5 feet bgs)

### 2.1.3 Total TPH

- Total TPH concentrations were reported below the NMAC screening standard of 100 mg/Kg at all sample locations.

### 2.1.4 BTEX

- BTEX concentrations were reported below the NMAC screening standard of 50 mg/Kg at all sample locations.

### 2.1.5 2019 Excavation Backfill

On June 24 and 25, 2019, Diamondback Disposable Services, Inc. (Diamondback), installed a 10-mil polyethylene liner and backfilled the historical excavation with approximately 75 cubic yards (cy) of clean backfill. A photograph log documenting the historical excavation backfill activities is included as **Appendix C**.

## 2.2 2020 Soil Assessment Activities

On May 26, 2020, as requested by the NMOCD in the last email correspondence available to Arcadis dated October 29, 2017 (**Appendix D**), two soil borings (SB-1 and SB-2) were installed to further assess soil conditions within the footprint of the historical excavation. The borings were advanced utilizing direct push drilling methods (i.e., Geoprobe). Soil samples were collected at the surface and then at 2-foot intervals to approximately 10 feet bgs. The soil samples were collected in two- and four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via FedEx. Upon receipt by laboratory, the soil samples were analyzed for chloride, TPH, and BTEX by USEPA Methods 300, 8015 and 8021B, respectively. The soil sample locations and analytical results are presented in **Figure 2**.

### 2.2.1 2020 Soil Analytical Results

The analytical results for soil samples collected during this assessment were also compared to the NMAC screening levels for chloride, TPH, and BTEX for a site with a depth to groundwater less than 50 feet bgs. A cumulative summary of the soil analytical results is presented in **Table 1**. Copies of the 2020 certified analytical reports and chain-of-custody documentation from Eurofins TestAmerica are presented in **Appendix E**. The 2020 soil boring logs are presented in **Appendix F**.

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

### 2.2.2 Chloride

- Chloride exceeded the NMAC screening standard of 600 mg/Kg in 5 of the 12 soil samples collected, with concentrations ranging from 631 mg/Kg at SB-2 (5 to 6 feet bgs) to 891 mg/Kg at SB-2 (3 to 4 feet bgs).

### 2.2.3 Total TPH

- Total TPH exceeded the NMAC screening standard of 100 mg/Kg in 1 one of the 12 soil samples collected:
  - 314 mg/Kg at SB-1 (1 to 2 feet bgs)

### 2.2.4 BTEX

- BTEX concentrations were reported below the NMAC screening standard of 50 mg/Kg at all soil sample locations.

## 3 GROUNDWATER MONITORING ACTIVITIES

Groundwater at the Site is monitored from a network of 4 monitoring wells (POD1, POD2, POD3 and POD4) that were previously installed by Rockcliff. No data regarding well construction details are available to Arcadis. Historical soil and groundwater analytical data and sampling frequencies are also not available. Arcadis performed groundwater monitoring events utilizing the 4 monitoring wells on May 7 and September 5, 2019 and completed one additional subsequent groundwater monitoring event in May 2020.

### 3.1 Groundwater Gauging Activities

#### 3.1.1 2019 Groundwater Gauging Data

Groundwater measurements collected during the May and September 2019 monitoring events indicate:

- Groundwater elevations ranged from 2,977.27 feet above mean sea level (ft amsl) (POD4) to 2,977.89 ft amsl (POD1) during the May 2019 monitoring event.
- Groundwater elevations ranged from 2,980.14 ft amsl (POD4) to 2,980.66 ft amsl (POD1) during the September 2019 monitoring event.
- Potentiometric elevation data for the monitoring events are presented in **Table 2**. Groundwater potentiometric surface maps for May and September 2019 are presented in **Figure 3**.
- The calculated gradient was 0.00759 feet/foot (ft/ft) for the May 2019 monitoring event and 0.00637 ft/ft for the September 2019 monitoring event, both to the southeast.

#### 3.1.2 2020 Groundwater Gauging Data

Groundwater measurements collected during the May 2020 monitoring events indicate:

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

- Groundwater elevations ranged from 2,979.03 ft amsl (POD4) to 2,979.20 ft amsl (POD2) during the May 2020 monitoring event.
- Potentiometric elevation data for the monitoring events are presented in **Table 2**. The groundwater potentiometric surface map for May 2020 is presented in **Figure 4**.
- The calculated gradient was 0.00092 ft/ft to the southeast for the May 2020 monitoring event.

## 3.2 Groundwater Analytical Results

### 3.2.1 2019 Groundwater Analytical Results

The four monitoring wells (POD1 through POD4) were sampled during the May and September 2019 monitoring events. Groundwater analytical results for chloride, total dissolved solids (TDS), and BTEX were compared to the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. The groundwater samples were additionally analyzed for TPH, which does not currently have a NMWQCC screening standard. No TPH detections were reported within any groundwater samples collected.

A summary of the groundwater sample analytical results for the May and September 2019 sampling events are presented in **Table 3**. Copies of the 2019 certified analytical reports and chain-of-custody documentation from Eurofins TestAmerica Laboratory are provided in **Appendix G**. The monitoring well locations and analytical results are presented in **Figure 5**.

### 3.2.2 Chloride

- Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in all monitoring wells at concentrations ranging from 1,390 mg/L (POD3) to 5,090 mg/L (POD2) during the May 2019 monitoring event.
- Chloride concentrations exceeded the NMWQCC standard of 250 mg/L in all monitoring wells at concentrations ranging from 1,220 mg/L (POD3) to 2,160 mg/L (POD2) during the September 2019 monitoring event.

### 3.2.3 TDS

- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in all monitoring wells at concentrations ranging from 4,790 mg/L (POD4-W) to 6,270 mg/L (POD2-W) during the May 2019 monitoring event.
- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in all monitoring wells at concentrations ranging from 4,960 mg/L (POD3-W) to 7,010 mg/L (POD2-W) during the September 2019 monitoring event.

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

### 3.2.4 BTEX

- BTEX concentrations were reported below the NMWQCC standards of 0.01 mg/L for benzene, 0.75 mg/L toluene, 0.75 mg/L for ethylbenzene, and 0.62 mg/L for xylenes in all monitoring wells during the May and September 2019 monitoring events.

### 3.2.5 2020 Groundwater Analytical Results

The four monitoring wells (POD1 through POD4) were subsequently sampled during the May 2020 monitoring event. Groundwater analytical results for chloride and BTEX were compared to the NMWQCC Groundwater Standards. The groundwater samples were additionally analyzed for TPH. No TPH detections were reported for any groundwater samples collected.

A summary of the groundwater sample analytical results for the May 2020 sampling event is presented in **Table 3**. Copies of the 2020 certified analytical reports and chain-of-custody documentation from Eurofins TestAmerica Laboratory are provided in **Appendix H**. The monitoring well locations and analytical results are presented in **Figure 5**.

### 3.2.6 Chloride

- Chloride concentrations exceeded the NMWQCC standard of 250 mg/L in all monitoring wells at concentrations ranging from 922 mg/L (POD1 and POD 2) to 1,180 mg/L (POD3) during the May 2020 monitoring event.

### 3.2.7 BTEX

- BTEX concentrations were reported below the NMWQCC standards of 0.01 mg/L for benzene, 0.75 mg/L toluene, 0.75 mg/L for ethylbenzene, and 0.62 mg/L for xylenes in all monitoring wells during the May 2020 monitoring event.

## 4 SUMMARY

In summary, the 2019 and 2020 soil and groundwater activities indicate the following:

- Chloride has not been delineated in soil at the Site below the NMAC screening criteria of 600 mg/Kg;
- Total TPH was detected in soil at the Site at one shallow sampling location above the NMAC screening criteria of 100 mg/Kg;
- Chloride has not been delineated in groundwater at the Site below the NMWQCC screening standard of 250 mg/L; and
- TDS has not been delineated in groundwater at the Site below the NMWQCC screening standard of 1,000 mg/L.

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

## 5 REGIONAL IRRIGATION PRACTICES

Irrigation practices in the Loving, New Mexico area consist of pumping and distributing surface water from the Pecos River in conjunction with groundwater. According to the New Mexico Office of the State Engineer (NMOSE) database, there is a surface pump (SP-01955) located along the edge of the Pecos River, approximately 0.15 miles southeast of the Site, along with several intertwined irrigation ditches leading out and across the site from the Pecos River. Per the NMOSE database, the surface pump was approved to begin pumping for irrigation in 1932 and is believed to continue to be a source of irrigation water to date.

According to the United States Geological Society (USGS) database, the salinity of the Pecos River exceeds 3,000 mg/L in many reaches of the study area within relative proximity to the Site. Due to the naturally high levels of chloride in the Pecos River, and its use as an irrigation water source over a duration of nearly 90 years, the chloride concentrations in groundwater and soil in the surrounding irrigated agricultural areas are anticipated to contain elevated concentrations of chloride and other TDS constituents well above naturally occurring conditions.

The NMOSE surface pump well file is included as **Appendix I**. The location of the surface pump and irrigation ditches are presented on **Figure 6**.

## 6 RECOMMENDATION

### 6.1 Chloride and TDS in Soil and Groundwater

Analytical results associated with recent assessment activities conducted in 2019 and 2020 indicate that the horizontal and vertical extent of chloride in soil and groundwater, and TDS in the groundwater, has not been fully delineated below applicable NMAC and NMWCQCC screening levels. Historical agricultural irrigation practices utilizing surface water from the adjacent Pecos River (documented with naturally occurring elevated chloride and TDS concentrations) have been conducted at and around the Site for approximately 90 years (**Appendix I**). Accumulation of chloride and other TDS constituents within the irrigated soils from these regional irrigation practices will continue to migrate to shallow groundwater and are expected to be at concentrations above applicable NMAC soil and NMWCQCC groundwater screening levels across the region. Additionally, the majority of the mass of constituents of concern from the release are believed to have been remediated at the site during the historical excavation activities conducted by Rockcliff. As such, Arcadis requests closure of 2RP-4255 associated with elevated chloride (soil and groundwater) and TDS (groundwater) concentrations above applicable screening levels at the Site.

### 6.2 Total TPH in Soil

Total TPH exceeded the NMAC screening standard of 100 mg/Kg in 1 one of the 12 soil samples collected during the 2020 soil assessment at a concentration of 314 mg/Kg at SB-1 (1 to 2 feet bgs). TPH concentrations in soil were confirmed below the NMAC screening standard vertically to a depth of 10 feet bgs, and no TPH or BTEX constituents were detected in groundwater during any groundwater sampling events conducted by Arcadis in 2019 or 2020. Additionally, the majority of the mass of constituents of

## 2019/2020 Historical Excavation Backfill and Site Subsequent Assessment Report

concern from the release are believed to have been remediated at the site during the historical excavation activities conducted by Rockcliff in August 2017. As such, no additional soil assessment activities will be evaluated, and closure of 2RP-4255 is additionally requested associated with the minor TPH detection in shallow soil.

## TABLES



**Table 1**  
**Soil Analytical Summary**  
**Chevron Environmental Management Company**  
**Onsunez #2**  
**Lea County, New Mexico**

| Sample I.D.    | Sample Depth (feet bgs) | Date     | Benzene   | Toluene  | Ethylbenzene | Xylenes  | Total BTEX | Gasoline Range Organics | Diesel Range Organics | Oil Range Organics | Total TPH | Chloride |
|----------------|-------------------------|----------|-----------|----------|--------------|----------|------------|-------------------------|-----------------------|--------------------|-----------|----------|
| NMAC Standards |                         | (mg/kg)  | (mg/kg)   | (mg/kg)  | (mg/kg)      | (mg/kg)  | 50         | (mg/kg)                 | (mg/kg)               | (mg/kg)            | (mg/kg)   | (mg/kg)  |
| OS1            | 0-0.5*                  | 6/6/2019 | <0.591    | <1.29    | <0.957       | <1.06    | <3.89      | <3.80                   | <4.06                 | <4.06              | 4         | 97       |
| OS2            | 0-0.5*                  | 6/6/2019 | <0.698    | <1.53    | <1.13        | <1.25    | <4.60      | <3.80                   | <4.06                 | <4.06              | 4         | 1,630    |
| OS3            | 0-0.5*                  | 6/6/2019 | <0.673    | <1.47    | <1.09        | <1.21    | <4.44      | <3.80                   | <4.06                 | <4.06              | 4         | 223      |
| OS4            | 0-0.5*                  | 6/6/2019 | <0.583    | <1.28    | <0.944       | <1.05    | <3.85      | <3.79                   | <4.05                 | <4.05              | 4         | 1,760    |
| SB-1           | 0'-6'                   | 05/26/20 | <0.000670 | <0.00147 | <0.00109     | <0.00120 | <0.00443   | <0.728                  | <2.08                 | 26.1               | 29        | 761 F1   |
|                | 1'-2'                   | 05/26/20 | <0.000635 | <0.00139 | <0.00103     | <0.00114 | <0.004195  | <0.569                  | 42.2                  | 271                | 314       | 819      |
|                | 3'-4'                   | 05/26/20 | <0.000625 | <0.00137 | <0.00101     | <0.00112 | <0.004125  | <0.608                  | <1.90                 | 55.0               | 58        | 429      |
|                | 5'-6'                   | 05/26/20 | <0.000625 | <0.00137 | <0.00101     | <0.00112 | <0.004125  | <0.719                  | <2.11                 | 36.7               | 40        | 195      |
| SB-2           | 7'-8'                   | 05/26/20 | <0.000626 | <0.00137 | <0.00101     | <0.00112 | <0.004126  | <0.683                  | <1.96                 | 27.3               | 30        | 296      |
|                | 9'-10'                  | 05/26/20 | <0.000615 | <0.00135 | <0.000996    | <0.00110 | <0.004061  | <0.732                  | <2.04                 | 24.6               | 27        | 519      |
|                | 0'-6'                   | 05/26/20 | <0.000608 | <0.00133 | <0.000985    | <0.00109 | <0.004013  | <0.685                  | <2.02                 | 25.7               | 28        | 177      |
|                | 1'-2'                   | 05/26/20 | <0.000601 | <0.00132 | <0.000973    | <0.00108 | <0.003974  | <0.670                  | <1.91                 | 23.6               | 26        | 319      |
| SB-3           | 3'-4'                   | 05/26/20 | <0.000636 | <0.00139 | <0.00103     | <0.00114 | <0.004196  | <0.751                  | <2.14                 | 26.6               | 29        | 881      |
|                | 5'-6'                   | 05/26/20 | <0.000633 | <0.00139 | <0.00102     | <0.00113 | <0.004173  | <0.771                  | <2.09                 | 24.7               | 28        | 631      |
|                | 7'-8'                   | 05/26/20 | <0.000633 | <0.00139 | <0.00102     | <0.00113 | <0.004173  | <0.696                  | <3.11                 | 16.9               | 21        | 734 F1   |
|                | 9'-10'                  | 05/26/20 | <0.000630 | <0.00138 | <0.00102     | <0.00113 | <0.00416   | <0.675                  | <36.9                 | 52.7               | 90        | 556      |

## Legend:

Any flags reported are indicated in **bold**.

Bold values indicate concentrations above NMAC Standards

&lt; indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

': Indicates one foot

\*: Soil sample was collected below the bottom of the excavation

USEPA = United States Environmental Protection Agency

## Notes:

1. Chloride analyzed by USEPA Method 300.0

2. TPH analyzed by USEPA Method 8015D

3. BTEX analyzed by USEPA Method 8260C

4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

**Table 2**  
**2020 Potentiometric Elevation Data**  
**Chevron Environmental Management Company**  
**Onsurez 2**  
**Lea County, New Mexico**



| Well | TOC elev <sup>1</sup> | Well Diameter (inches) | Screen Interval (bgs <sup>3</sup> ) | Date      | Total Depth (ft below TOC) | Depth to Water (ft below TOC) | Corrected Groundwater Elevation (ft above MSL <sup>2</sup> ) |
|------|-----------------------|------------------------|-------------------------------------|-----------|----------------------------|-------------------------------|--|
| POD1 | 2990.58               | 4                      | 5 - 20                              | 5/2/2019  | 23.34                      | 12.69                         | 2977.89  |
|      |                       |                        |                                     | 9/5/2019  | 23.34                      | 9.92                          | 2980.66  |
|      |                       |                        |                                     | 5/29/2020 | 23.14                      | 11.48                         | 2979.10  |
| POD2 | 2992.48               | 4                      | 5 - 20                              | 5/2/2019  | 24.95                      | 15.05                         | 2977.43  |
|      |                       |                        |                                     | 9/5/2019  | 24.80                      | 12.25                         | 2980.23  |
|      |                       |                        |                                     | 5/29/2020 | 24.64                      | 13.28                         | 2979.20  |
| POD3 | 2989.93               | 4                      | 5 - 20                              | 5/2/2019  | 23.21                      | 12.30                         | 2977.63  |
|      |                       |                        |                                     | 9/5/2019  | 23.26                      | 9.75                          | 2980.18  |
|      |                       |                        |                                     | 5/29/2020 | 23.13                      | 10.85                         | 2979.08  |
| POD4 | 2989.59               | 4                      | 5 - 20                              | 5/3/2019  | 23.13                      | 12.32                         | 2977.27  |
|      |                       |                        |                                     | 9/5/2019  | 23.04                      | 9.45                          | 2980.14  |
|      |                       |                        |                                     | 5/29/2020 | 23.09                      | 10.56                         | 2979.03  |

Notes:

<sup>1</sup>TOC - Top of Casing

<sup>2</sup>MSL - Mean Sea Level

<sup>3</sup>bgs - below ground surface

**Table 3**  
**Groundwater Analytical Summary**  
**Chevron Environmental Management Company**  
**Onsurez #2**  
**Lea County, New Mexico**



| Sample I.D.<br>No. | Date     | Organic Compounds  |                        |                   |                   | Total Petroleum Hydrocarbons |                    |                   | Groundwater Quality |                                     |
|--------------------|----------|--|------------------------|-------------------|-------------------|------------------------------|--------------------|-------------------|---------------------|-------------------------------------|
|                    |          | Benzene<br>(mg/L)  | Ethylbenzene<br>(mg/L) | Toluene<br>(mg/L) | Xylenes<br>(mg/L) | C6-C12<br>(mg/L)             | C-12-C28<br>(mg/L) | C28-C35<br>(mg/L) | Chloride<br>(mg/L)  | Total Dissolved<br>Solids<br>(mg/L) |
|                    |          | NMWQCC Human Health Standards for Groundwater <sup>1</sup> |                        |                   |                   |                              |                    |                   |                     |                                     |
|                    |          | 0.01<br>mg/L   | 0.75<br>mg/L           | 0.75<br>mg/L      | 0.62<br>mg/L      | --<br>mg/L                   | --<br>mg/L         | --<br>mg/L        | 250<br>mg/L         | 1,000<br>mg/L                       |
| POD1               | 05/07/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000718                    | <0.00083           | <0.00083          | 4,420               | 5,340                               |
|                    | 09/05/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000728                    | <0.000842          | <0.000842         | <b>2,020</b>        | <b>6,790</b>                        |
|                    | 05/29/20 | <0.000560  | <0.000550              | <0.00129          | <0.00198          | <0.0230                      | <0.0464            | <0.155            | <b>992 F1</b>       | NA                                  |
| POD2               | 05/07/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000711                    | <0.000823          | <0.000823         | <b>5,090</b>        | <b>6,270</b>                        |
|                    | 09/05/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000737                    | <0.000852          | <0.000852         | 2,160               | 7,010                               |
|                    | 05/29/20 | <0.000560  | <0.000550              | <0.00129          | <0.00198          | <0.0230                      | <0.0464            | <0.155            | <b>992 F1</b>       | NA                                  |
| POD2(DUP)          | 05/29/20 | <0.000560  | <0.000550              | <0.00129          | <0.00198          | <0.0230                      | <0.0459            | <0.153            | <b>1,440</b>        | NA                                  |
| POD3               | 05/07/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000718                    | <0.00083           | <0.00083          | 1,390               | 5,090                               |
|                    | 09/05/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000728                    | <0.000842          | <0.000842         | <b>1,220</b>        | <b>4,960</b>                        |
|                    | 05/29/20 | <0.000560  | <0.000550              | <0.00129          | <0.00198          | <0.0230                      | <0.0459            | <0.153            | <b>1,180</b>        | NA                                  |
| POD4               | 05/07/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.00072                     | <0.000823          | <0.000823         | <b>3,690</b>        | <b>4,790</b>                        |
|                    | 09/05/19 | <0.000176  | <0.000212              | <0.000198         | <0.000366         | <0.000737                    | <0.000852          | <0.000852         | 1,530               | 5,560                               |
|                    | 05/29/20 | <0.000560  | <0.000550              | <0.00129          | <0.00198          | <0.0230                      | <0.0459            | <0.153            | <b>1,090</b>        | NA                                  |

## Legend:

Any flags reported are indicated in bold

Bold values indicate concentrations above NMWQCC Other Standards for Domestic Water Supply.

NMWQCC Human Health Standards Per NMAC 20.6.2.3103A.

'&lt;' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

mg/L: Milligram per Litre

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

' : Indicates one foot

USEPA = United States Environmental Protection Agency

NA = Not Analysed

## Notes:

1. Chloride analyzed by USEPA Method 300.0

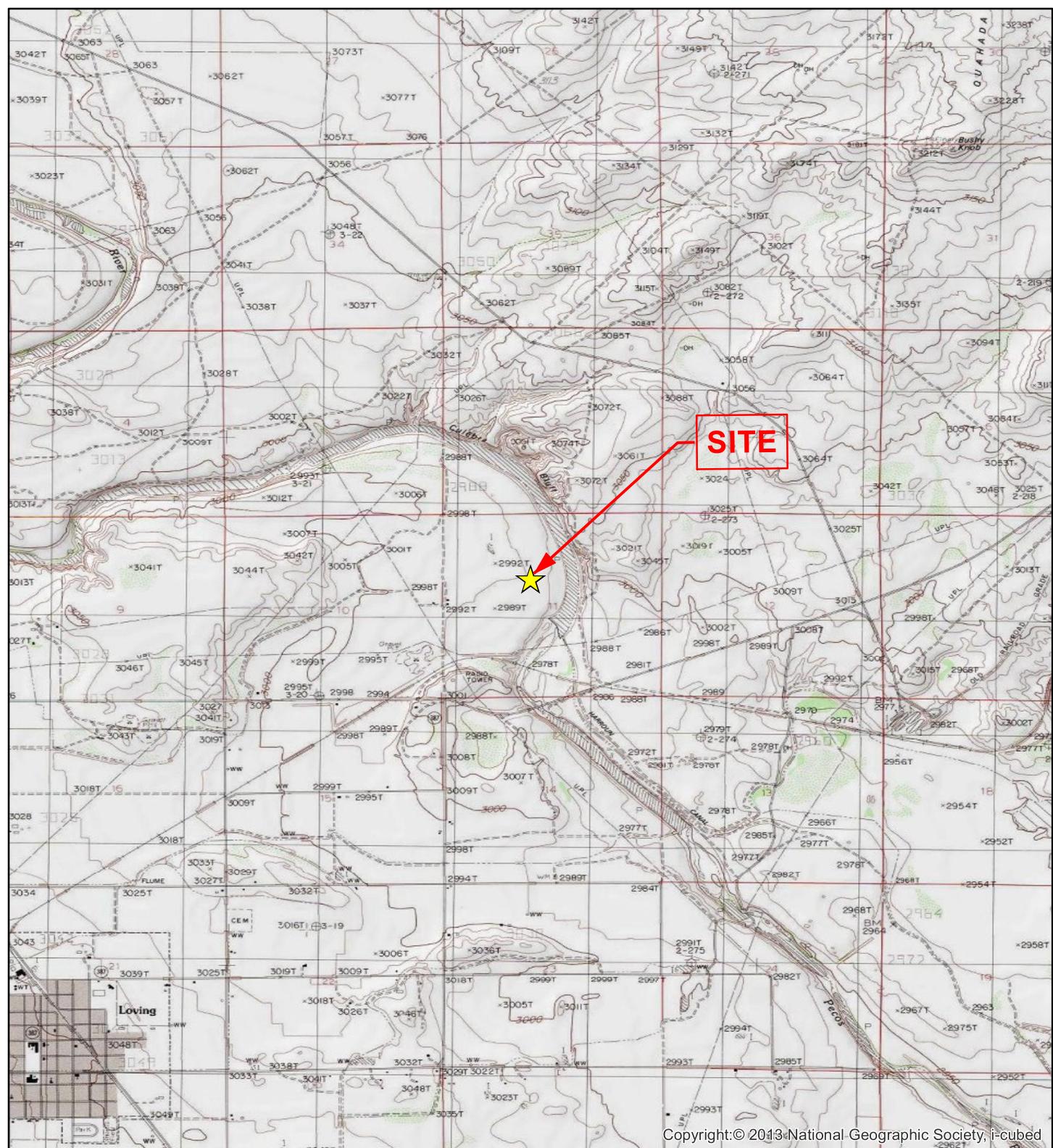
2. TPH analyzed by USEPA Method 8015D

3. BTEX analyzed by USEPA Method 8260C

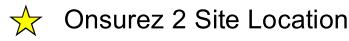
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

## FIGURES





Document Path: T:\ENV\Chevron\Onsurez 2\MXD\Onsurez 2.mxd

**Legend**

Notes:

1. Datum: D\_WGS\_1984
2. Source: United States Geological Survey 7.5 Minute Quadrangle Map



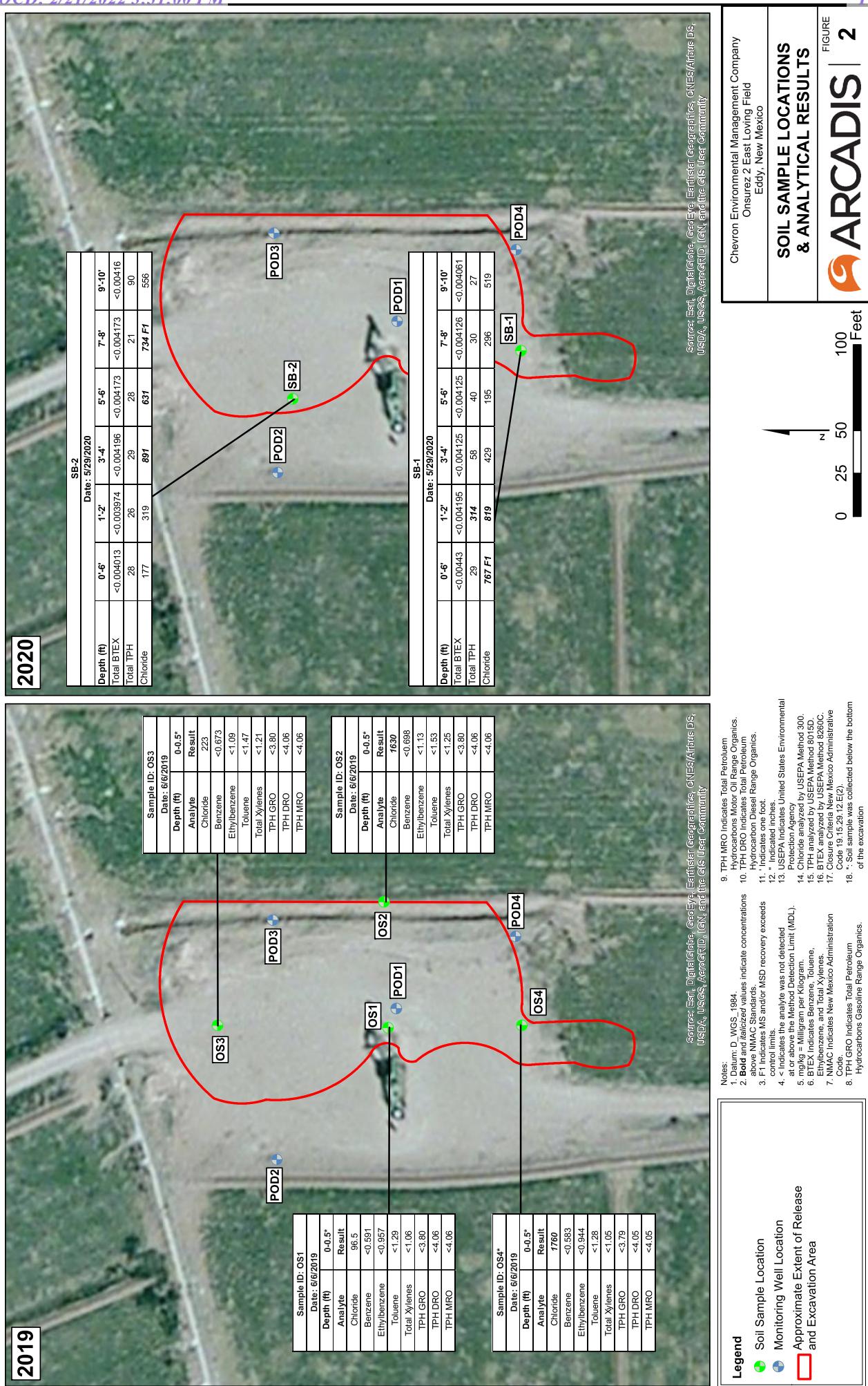
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Feet

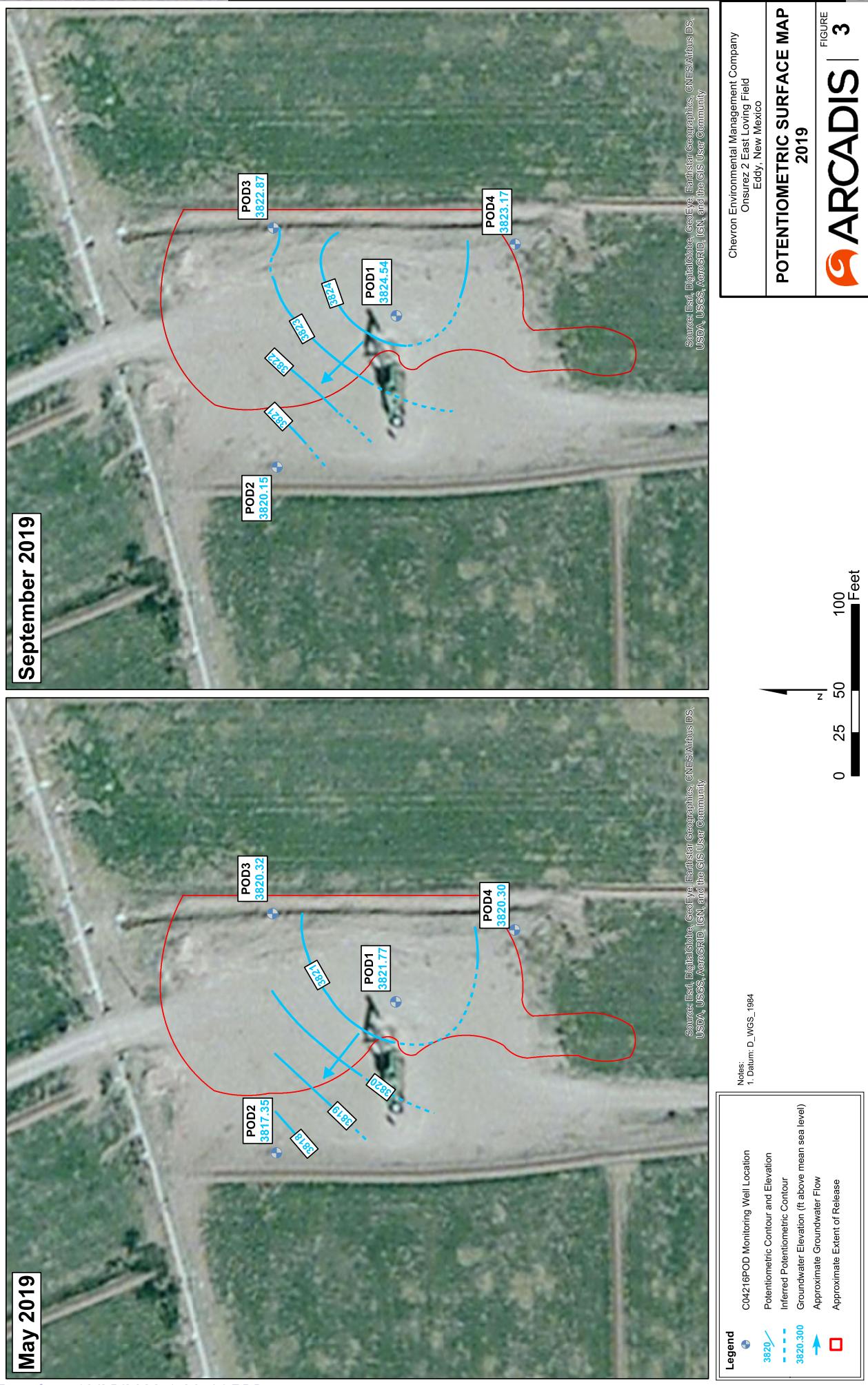
**Chevron Environmental Management Company  
Onsurez 2 East Loving Field  
Eddy, New Mexico**

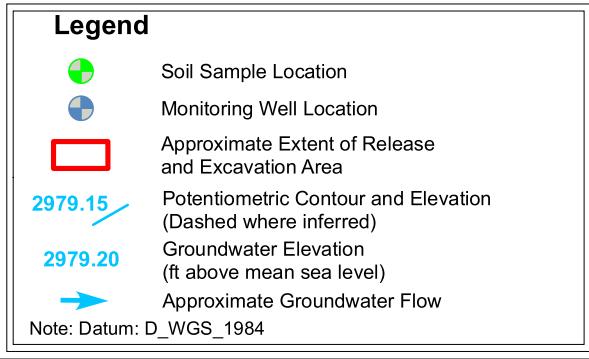
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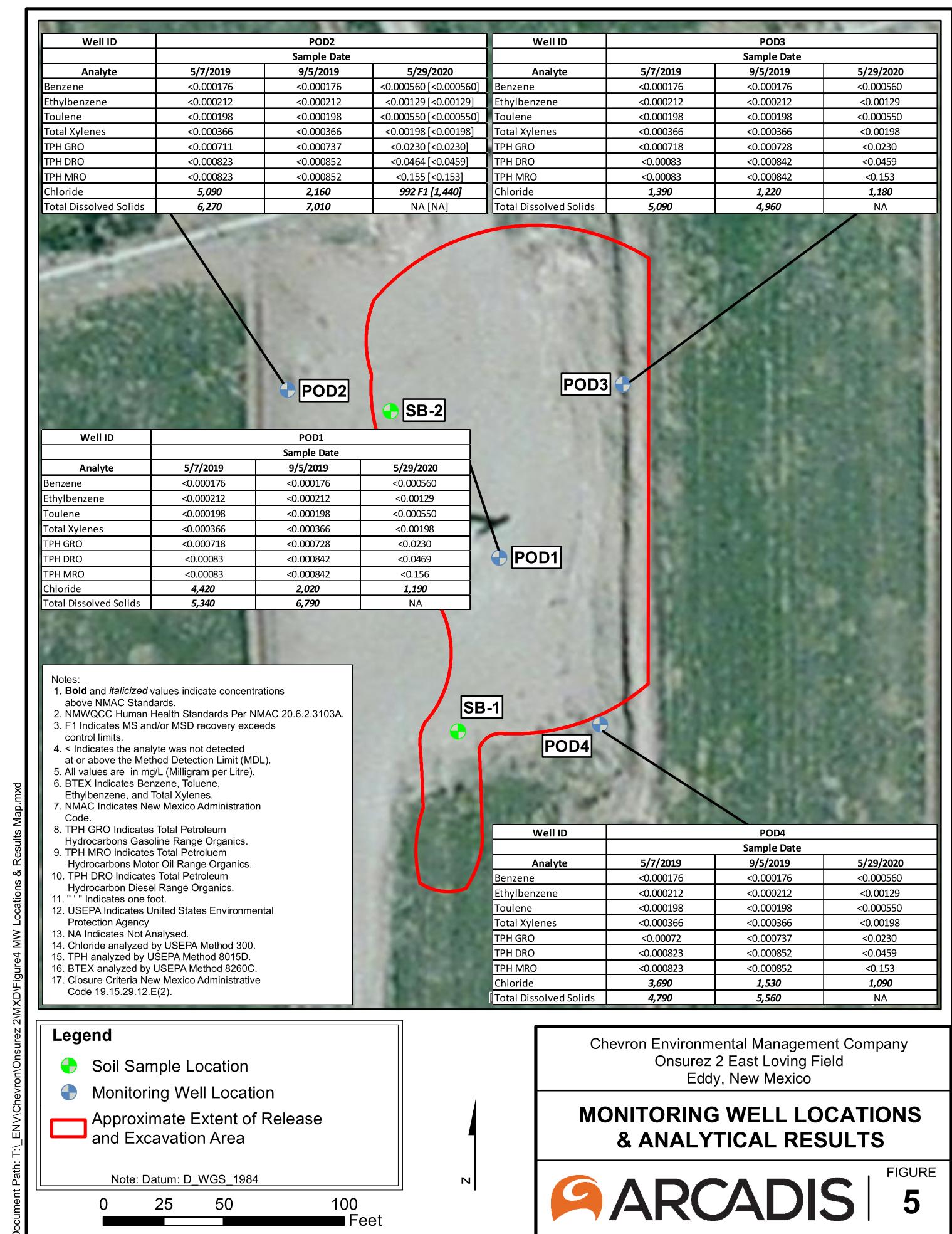
FIGURE

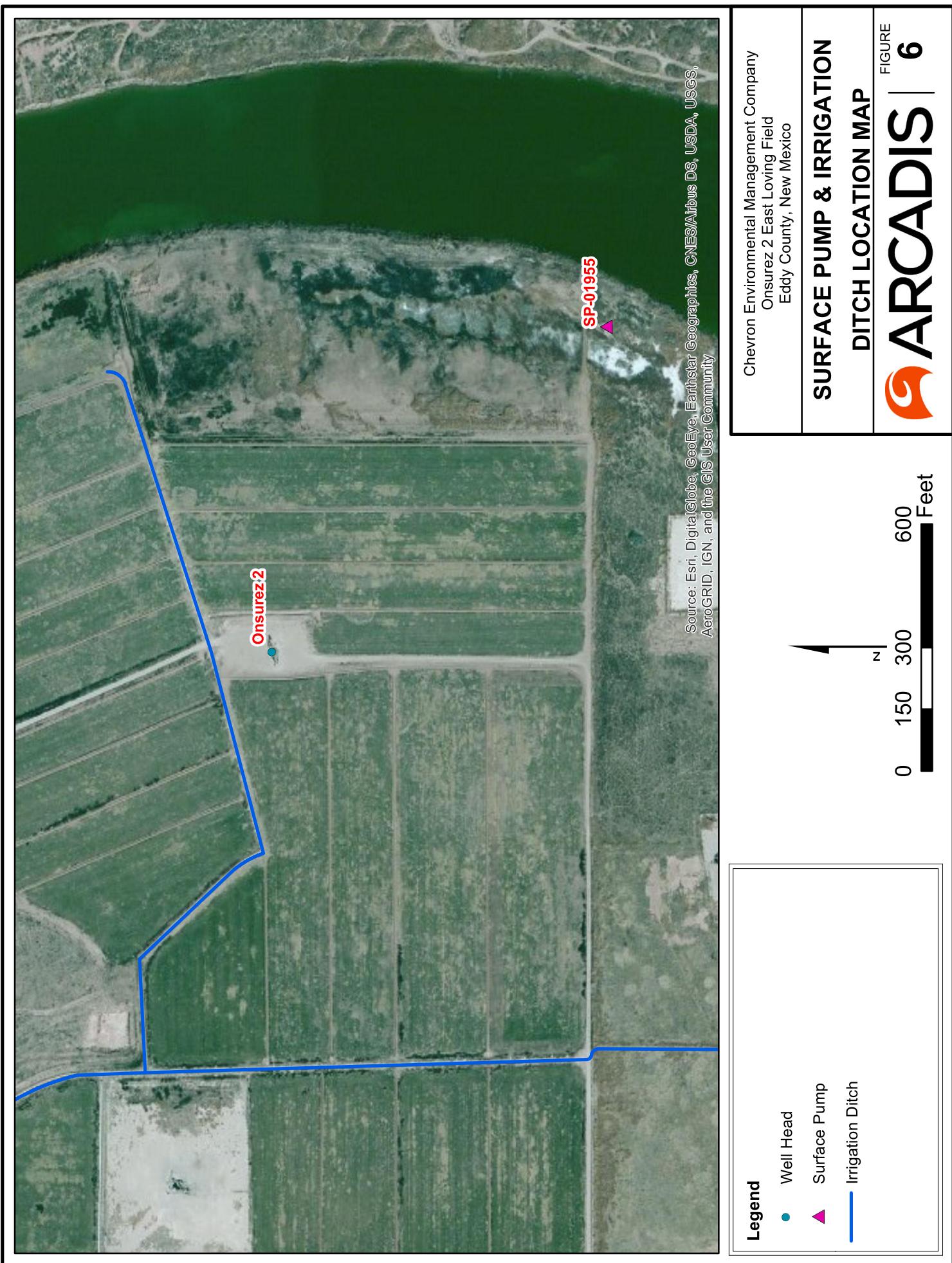
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## APPENDIX A

### Site Background



## BACKGROUND

On June 3, 2017 approximately 1 barrel (bbl) of crude oil and produced water were released as a result of a leaking stuffing box at the Onsurez #2 (Site). The release occurred during a rain event and impacted the area surrounding the well. Approximately 1 bbl was recovered. The impacted area was estimated to be about 17,955 square feet. The Site is located in rural Eddy County, near Loving New Mexico. Groundwater based on information provided the New Mexico Office of the State Engineer is likely to be encountered at a depth of approximately 28 ft below ground surface (bgs). The distance to the nearest surface water (Pecos River) is approximately 792 feet, east of the facility.

## REGULATORY FRAMEWORK

The OCD has regulatory jurisdiction over corrective actions conducted at the Site. The OCD, in accordance with guidance outlined by the Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993), require remediation of chlorides in groundwater to below the New Mexico Water Quality Control Commission (NMWQCC) human health standards or background. In addition to chloride, total dissolved solids (TDS), sulfate, and total alkalinity are analyzed for in each groundwater sample collected on-Site. The human health standards for the four constituents of concern (COCs) set forth in the New Mexico Administrative Code 20.6.2.3103B are shown in the NMWQCC table below.

| Analyte                      | NMWQCC Standard for Groundwater (mg/L) |
|------------------------------|--|
| Chloride                     | 250                                    |
| Sulfate (SO <sub>4</sub> )   | 600                                    |
| Total Dissolved Solids (TDS) | 1,000                                  |
| Alkalinity                   | No NMWQCC Standard                     |

## HYDROGEOLOGY ASSESSMENT

### Monitoring Well Installation

According to the New Mexico Office of the State Engineer (NMOSE) database, monitoring wells POD1-W, POD2-W, POD3-W, and POD4-W were installed by Atkins Engineering Associates Inc. on April 4, 2018. The wells were drilled to a depth of 20 feet bgs (POD1-W, POD2-W, and POD4-W) and 23 feet bgs (POD3-W). Depth to water at the Site is approximately 10 feet bgs.

## GEOLOGY/HYDROGEOLOGY ASSESSMENT

### Geology

The underlying geologic unit in this area is the Older Alluvium deposits of upland plains and piedmont areas. The formation is composed of unconsolidated calcic soils and eolian cover sediments of the High Plains region.

## Hydrogeology

The major underlying aquifer in this area is the Capitan Reef aquifer. The depth to groundwater at the Site is approximately 10 feet bgs. Fresh water is only present in the aquifer in the immediate vicinity of its recharge area in the Guadalupe Mountains. The majority of the water in the aquifer is most accurately described as brine. The majority of the water from this aquifer is resourced for industrial applications, predominately oil and gas, in this region.

## SOIL ASSESSMENT

On June 29, 2017, Kane Environmental (Kane), on behalf of Rockcliff Operating New Mexico, LLC (Rockcliff), the operator at the time of the release, collected soil samples from five locations (OS1 through OS5) from the spill area. The soil samples were placed in sealable plastic bags, allowed to reach temperature equilibrium and then screened for hydrocarbons using a MiniRae 2000 photoionization detector (PID). The samples were also screened for chlorides using a Spectrum Field Scout electrical conductivity (EC) meter. A composite background sample was also collected from the surface to a depth of 3 ft (bgs) from an area that based on historical aerial photographs has not been impacted. After screening, each sample was then placed in appropriate containers, properly labeled, then on ice in a cooler and delivered to the Cardinal Laboratory located in Hobbs, New Mexico for analysis. All samples were analyzed for benzene, toluene, ethylbenzene and mixed isomer xylenes (BTEX) by EPA Method 8021, total petroleum hydrocarbons, including gasoline range organics, diesel range organics, and oil range organics by EPA Method 8105 and chloride by EPA Method 300 or equivalent. The soil sample analytical data can be found in the *June 2017 Site Investigation Report & Corrective Action Plan*.

On an unknown date, Rockcliff excavated the spill area to depths ranging from 2 to 9 feet bgs. A total of more than 2,850 cubic yards of soil was removed from the location. On August 7, 2017, Kane collected soil samples at 14 locations (ES 1 through ES 14) within the excavated area with a hand auger. Soil samples were collected at various depths as well as from each sidewall. The soil samples were placed in sealable plastic bags, allowed to reach temperature equilibrium and then screened for hydrocarbons using a MiniRae 2000 photoionization detector (PID). The samples were also screened for chlorides using a Spectrum Field Scout electrical conductivity (EC) meter. A composite background soil sample was also collected during a previous visit, from the surface to a depth of 3 ft bgs from an area that based on historical aerial photographs has not been impacted. This soil was also screened using the PID and EC meter. After screening, each sample was then placed in appropriate containers, properly labeled, then on ice in a cooler and delivered to the Cardinal Laboratory located in Hobbs, New Mexico for analysis. All samples were analyzed for BTEX by EPA Method 8021, total petroleum hydrocarbons, including gasoline range organics, diesel range organics, and oil range organics by EPA Method 8105 and chloride by EPA Method 300 or equivalent. The soil sample analytical data can be found in the *August 2017 Site Investigation Report & Corrective Action Plan*.

On September 2017, Kane collected additional soil samples from ES 4 and ES 13 (ES 4A and ES 13A) with a hand auger at depths of 3 feet, 8 feet and 13 feet bgs. The soil samples were placed in sealable plastic bags, allowed to reach temperature equilibrium and then screened for hydrocarbons using a MiniRae 2000 photoionization detector (PID). The samples were also screened for chlorides using a Spectrum Field Scout electrical conductivity (EC) meter. After screening, each sample was then placed in

appropriate containers, properly labeled, then on ice in a cooler and delivered to the Cardinal Laboratory located in Hobbs, New Mexico for analysis. All samples were analyzed for BTEX by EPA Method 8021, total petroleum hydrocarbons, including gasoline range organics, diesel range organics, and oil range organics by EPA Method 8105 and chloride by EPA Method 300 or equivalent. Kane proposed removing an additional 3 feet of soil from ES 4A and ES 13A, installing a liner and backfilling the excavation. The New Mexico Oil Conservation Division (NMOCD) denied backfill due to the confusion of the progressive reports. The soil sample analytical data can be found in the *October 2017 Site Investigation Report & Corrective Action Plan*.

On November 3, 2017 C&S Consulting (C&S) submitted a *Release Characterization Work Plan* to the NMOCD, which was approved on December 29, 2017 with conditions. No further documentation was located during the desktop review.

## APPENDIX B

### 2019 Soil Analytical Reports



Environment Testing  
TestAmerica



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-186688-1  
Client Project/Site: E Loving Field/ Onsurez # 2

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

Attn: Mr. Brett Krehbiel

Authorized for release by:  
6/20/2019 2:45:22 PM  
Tiffany Fleming, Project Management Assistant I  
(361)289-2673  
[tiffany.fleming@testamericainc.com](mailto:tiffany.fleming@testamericainc.com)

Designee for  
Sachin Kudchadkar, Senior Project Manager  
(713)690-4444  
[sachin.kudchadkar@testamericainc.com](mailto:sachin.kudchadkar@testamericainc.com)

### LINKS

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results through

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Expert

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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.

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Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Laboratory Job ID: 600-186688-1

# Table of Contents

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## Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

| Method          | Method Description                              | Protocol | Laboratory |   |
|-----------------|---|----------|------------|---|
| 8260B           | Volatile Organic Compounds (GC/MS)              | SW846    | TAL HOU    | 1 |
| 8015_M          | Total Petroleum Hydrocarbon (GC)                | SW846    | TAL HOU    | 2 |
| 9056A           | Anions, Ion Chromatography                      | SW846    | TAL HOU    | 3 |
| 5030B           | Purge and Trap for Solids                       | SW846    | TAL HOU    | 4 |
| DI Leach        | Deionized Water Leaching Procedure (Routine)    | ASTM     | TAL HOU    | 5 |
| Frozen Preserve | Freezing Samples                                | None     | TAL HOU    | 6 |
| TX_1005_S_Prep  | Extraction - Texas Total petroleum Hyrdocarbons | TCEQ     | TAL HOU    | 7 |

**Protocol References:**

ASTM = ASTM International

None = None

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

TCEQ = Texas Commission of Environmental Quality

**Laboratory References:**

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

Eurofins TestAmerica, Houston

**Sample Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

| Lab Sample ID | Client Sample ID             | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------------------|--------|----------------|----------------|----------|
| 600-186688-1  | Onsurez#2-1-S-0'-0.5'-190606 | Solid  | 06/06/19 15:48 | 06/07/19 08:28 |          |
| 600-186688-2  | Onsurez#2-2-S-0'-0.5'-190606 | Solid  | 06/06/19 15:50 | 06/07/19 08:28 |          |
| 600-186688-3  | Onsurez#2-3-S-0'-0.5'-190606 | Solid  | 06/06/19 15:56 | 06/07/19 08:28 |          |
| 600-186688-4  | Onsurez#2-4-S-0'-0.5'-190606 | Solid  | 06/06/19 16:00 | 06/07/19 08:28 |          |

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Eurofins TestAmerica, Houston

# Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Client Sample ID: Onsurez#2-1-S-0'-0.5'-190606****Lab Sample ID: 600-186688-1**

Date Collected: 06/06/19 15:48

Matrix: Solid

Date Received: 06/07/19 08:28

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Benzene        | 0.591  | U         | 4.69      | 0.591 | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| Ethylbenzene   | 0.957  | U         | 4.69      | 0.957 | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| Toluene        | 1.29   | U         | 4.69      | 1.29  | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| Xylenes, Total | 1.06   | U         | 4.69      | 1.06  | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:34 | 1       |

**Surrogate**

|                              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 61 - 130 | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| Dibromofluoromethane         | 98        |           | 68 - 140 | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 50 - 130 | 06/07/19 10:23 | 06/07/19 15:34 | 1       |
| 4-Bromofluorobenzene         | 102       |           | 57 - 140 | 06/07/19 10:23 | 06/07/19 15:34 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte            | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| C6-C12             | 3.80   | U         | 10.0      | 3.80 | mg/Kg |   | 06/11/19 10:07 | 06/11/19 17:32 | 1       |
| >C12-C28           | 4.06   | U         | 10.0      | 4.06 | mg/Kg |   | 06/11/19 10:07 | 06/11/19 17:32 | 1       |
| >C28-C35           | 4.06   | U         | 10.0      | 4.06 | mg/Kg |   | 06/11/19 10:07 | 06/11/19 17:32 | 1       |
| <b>Surrogate</b>   |        |           |           |      |       |   |                |                |         |
| <i>o-Terphenyl</i> | 77     |           | 70 - 130  |      |       |   | 06/11/19 10:07 | 06/11/19 17:32 | 1       |

**Method: 9056A - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|-------|-------|---|----------|----------------|---------|
| Chloride | 96.5   |           | 3.94      | 0.527 | mg/Kg |   |          | 06/11/19 13:25 | 1       |

**Client Sample ID: Onsurez#2-2-S-0'-0.5'-190606****Lab Sample ID: 600-186688-2**

Date Collected: 06/06/19 15:50

Matrix: Solid

Date Received: 06/07/19 08:28

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Benzene        | 0.698  | U         | 5.54      | 0.698 | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| Ethylbenzene   | 1.13   | U         | 5.54      | 1.13  | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| Toluene        | 1.53   | U         | 5.54      | 1.53  | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| Xylenes, Total | 1.25   | U         | 5.54      | 1.25  | ug/Kg |   | 06/07/19 10:23 | 06/07/19 15:58 | 1       |

**Surrogate**

|                              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 82        |           | 61 - 130 | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| Dibromofluoromethane         | 95        |           | 68 - 140 | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| Toluene-d8 (Surr)            | 100       |           | 50 - 130 | 06/07/19 10:23 | 06/07/19 15:58 | 1       |
| 4-Bromofluorobenzene         | 103       |           | 57 - 140 | 06/07/19 10:23 | 06/07/19 15:58 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte            | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| C6-C12             | 3.80   | U         | 10.0      | 3.80 | mg/Kg |   | 06/11/19 10:07 | 06/12/19 07:58 | 1       |
| >C12-C28           | 4.06   | U         | 10.0      | 4.06 | mg/Kg |   | 06/11/19 10:07 | 06/12/19 07:58 | 1       |
| >C28-C35           | 4.06   | U         | 10.0      | 4.06 | mg/Kg |   | 06/11/19 10:07 | 06/12/19 07:58 | 1       |
| <b>Surrogate</b>   |        |           |           |      |       |   |                |                |         |
| <i>o-Terphenyl</i> | 99     |           | 70 - 130  |      |       |   | 06/11/19 10:07 | 06/12/19 07:58 | 1       |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Client Sample ID: Onsurez#2-2-S-0'-0.5'-190606**  
Date Collected: 06/06/19 15:50  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-2**  
Matrix: Solid

**Method: 9056A - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1630   |           | 80.3      | 10.7 | mg/Kg |   |          | 06/11/19 12:25 | 20      |

**Client Sample ID: Onsurez#2-3-S-0'-0.5'-190606**  
Date Collected: 06/06/19 15:56  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-3**  
Matrix: Solid

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.673            | U                | 5.34          | 0.673 | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| Ethylbenzene                 | 1.09             | U                | 5.34          | 1.09  | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| Toluene                      | 1.47             | U                | 5.34          | 1.47  | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| Xylenes, Total               | 1.21             | U                | 5.34          | 1.21  | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 84               |                  | 61 - 130      |       |       |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| Dibromofluoromethane         | 97               |                  | 68 - 140      |       |       |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| Toluene-d8 (Surr)            | 98               |                  | 50 - 130      |       |       |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |
| 4-Bromofluorobenzene         | 102              |                  | 57 - 140      |       |       |   | 06/07/19 10:23  | 06/07/19 16:22  | 1              |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte          | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| C6-C12           | 3.80             | U                | 9.99          | 3.80 | mg/Kg |   | 06/11/19 10:07  | 06/11/19 18:41  | 1              |
| >C12-C28         | 4.06             | U                | 9.99          | 4.06 | mg/Kg |   | 06/11/19 10:07  | 06/11/19 18:41  | 1              |
| >C28-C35         | 4.06             | U                | 9.99          | 4.06 | mg/Kg |   | 06/11/19 10:07  | 06/11/19 18:41  | 1              |
| <b>Surrogate</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl      | 92               |                  | 70 - 130      |      |       |   | 06/11/19 10:07  | 06/11/19 18:41  | 1              |

**Method: 9056A - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|-------|-------|---|----------|----------------|---------|
| Chloride | 223    |           | 3.99      | 0.533 | mg/Kg |   |          | 06/11/19 13:45 | 1       |

**Client Sample ID: Onsurez#2-4-S-0'-0.5'-190606**

**Lab Sample ID: 600-186688-4**  
Matrix: Solid

Date Collected: 06/06/19 16:00  
Date Received: 06/07/19 08:28

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.583            | U                | 4.63          | 0.583 | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| Ethylbenzene                 | 0.944            | U                | 4.63          | 0.944 | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| Toluene                      | 1.28             | U                | 4.63          | 1.28  | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| Xylenes, Total               | 1.05             | U                | 4.63          | 1.05  | ug/Kg |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 86               |                  | 61 - 130      |       |       |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| Dibromofluoromethane         | 101              |                  | 68 - 140      |       |       |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| Toluene-d8 (Surr)            | 117              |                  | 50 - 130      |       |       |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |
| 4-Bromofluorobenzene         | 84               |                  | 57 - 140      |       |       |   | 06/07/19 10:23  | 06/07/19 16:46  | 1              |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| C6-C12  | 3.79   | U         | 9.98      | 3.79 | mg/Kg |   | 06/11/19 10:07 | 06/11/19 19:50 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Client Sample ID: Onsurez#2-4-S-0'-0.5'-190606****Lab Sample ID: 600-186688-4**

Date Collected: 06/06/19 16:00

Matrix: Solid

Date Received: 06/07/19 08:28

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC) (Continued)**

| Analyte            | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| >C12-C28           | 4.05             | U                | 9.98          | 4.05 | mg/Kg |   | 06/11/19 10:07  | 06/11/19 19:50  | 1              |
| >C28-C35           | 4.05             | U                | 9.98          | 4.05 | mg/Kg |   | 06/11/19 10:07  | 06/11/19 19:50  | 1              |
| <b>Surrogate</b>   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>o-Terphenyl</i> | 90               |                  | 70 - 130      |      |       |   | 06/11/19 10:07  | 06/11/19 19:50  | 1              |

**Method: 9056A - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1760   |           | 100       | 13.4 | mg/Kg |   |          | 06/11/19 14:05 | 25      |

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

### Qualifiers

#### GC/MS VOA

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

#### GC Semi VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| N1        | MS, MSD: Spike recovery exceeds upper or lower control limits. |
| U         | Analyte was not detected at or above the SDL.                  |

#### HPLC/IC

| Qualifier | Qualifier Description  |
|-----------|--|
| 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  |
| 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)   |

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**Surrogate Summary**

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID     | Client Sample ID             | Percent Surrogate Recovery (Acceptance Limits) |                  |                 |                 |
|-------------------|------------------------------|--|------------------|-----------------|-----------------|
|                   |                              | DCA<br>(61-130)                                | DBFM<br>(68-140) | TOL<br>(50-130) | BFB<br>(57-140) |
| 600-186688-1      | Onsurez#2-1-S-0'-0.5'-190606 | 87   | 98               | 98              | 102             |
| 600-186688-2      | Onsurez#2-2-S-0'-0.5'-190606 | 82   | 95               | 100             | 103             |
| 600-186688-3      | Onsurez#2-3-S-0'-0.5'-190606 | 84   | 97               | 98              | 102             |
| 600-186688-4      | Onsurez#2-4-S-0'-0.5'-190606 | 86   | 101              | 117             | 84              |
| LCS 600-266732/3  | Lab Control Sample           | 91   | 106              | 104             | 115             |
| LCSD 600-266732/4 | Lab Control Sample Dup       | 91   | 104              | 102             | 105             |
| MB 600-266732/6   | Method Blank                 | 98   | 104              | 93              | 94              |

**Surrogate Legend**

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

DBFM = Dibromoformmethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID        | Client Sample ID             | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |
|----------------------|------------------------------|--|--|--|--|
|                      |                              | OTPH<br>(70-130)                               |  |  |  |
| 600-186688-1         | Onsurez#2-1-S-0'-0.5'-190606 | 77   |  |  |  |
| 600-186688-2         | Onsurez#2-2-S-0'-0.5'-190606 | 99   |  |  |  |
| 600-186688-3         | Onsurez#2-3-S-0'-0.5'-190606 | 92   |  |  |  |
| 600-186688-4         | Onsurez#2-4-S-0'-0.5'-190606 | 90   |  |  |  |
| 600-186721-C-1-C MS  | Matrix Spike                 | 96   |  |  |  |
| 600-186721-C-1-D MSD | Matrix Spike Duplicate       | 97   |  |  |  |
| LCS 600-266909/2-A   | Lab Control Sample           | 109  |  |  |  |
| LCSD 600-266909/3-A  | Lab Control Sample Dup       | 106  |  |  |  |
| MB 600-266909/1-A    | Method Blank                 | 97   |  |  |  |

**Surrogate Legend**

OTPH = o-Terphenyl

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**QC Sample Results**

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Lab Sample ID: MB 600-266732/6****Matrix: Solid****Analysis Batch: 266732****Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB     |           | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|-------|---|----------|----------------|---------|
|                | Result | Qualifier |           |       |       |   |          |                |         |
| Benzene        | 0.630  | U         | 5.00      | 0.630 | ug/Kg |   |          | 06/07/19 11:26 | 1       |
| Ethylbenzene   | 1.02   | U         | 5.00      | 1.02  | ug/Kg |   |          | 06/07/19 11:26 | 1       |
| Toluene        | 1.38   | U         | 5.00      | 1.38  | ug/Kg |   |          | 06/07/19 11:26 | 1       |
| Xylenes, Total | 1.13   | U         | 5.00      | 1.13  | ug/Kg |   |          | 06/07/19 11:26 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 61 - 130 |          | 06/07/19 11:26 | 1       |
| Dibromofluoromethane         | 104       |           | 68 - 140 |          | 06/07/19 11:26 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 50 - 130 |          | 06/07/19 11:26 | 1       |
| 4-Bromofluorobenzene         | 94        |           | 57 - 140 |          | 06/07/19 11:26 | 1       |

**Lab Sample ID: LCS 600-266732/3****Matrix: Solid****Analysis Batch: 266732****Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte             | Spike |  | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec.    | Limits |
|---------------------|-------|--|------------|---------------|-------|---|------|----------|--------|
|                     | Added |  |            |               |       |   |      |          |        |
| Benzene             | 50.0  |  | 62.58      |               | ug/Kg |   | 125  | 70 - 131 |        |
| Ethylbenzene        | 50.0  |  | 47.59      |               | ug/Kg |   | 95   | 66 - 130 |        |
| Toluene             | 50.0  |  | 50.03      |               | ug/Kg |   | 100  | 67 - 130 |        |
| Xylenes, Total      | 100   |  | 94.48      |               | ug/Kg |   | 94   | 63 - 130 |        |
| m-Xylene & p-Xylene | 50.0  |  | 47.95      |               | ug/Kg |   | 96   | 64 - 130 |        |
| o-Xylene            | 50.0  |  | 46.53      |               | ug/Kg |   | 93   | 62 - 130 |        |

| Surrogate                    | LCS       |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 61 - 130 |          | 06/07/19 11:26 | 1       |
| Dibromofluoromethane         | 106       |           | 68 - 140 |          | 06/07/19 11:26 | 1       |
| Toluene-d8 (Surr)            | 104       |           | 50 - 130 |          | 06/07/19 11:26 | 1       |
| 4-Bromofluorobenzene         | 115       |           | 57 - 140 |          | 06/07/19 11:26 | 1       |

**Lab Sample ID: LCSD 600-266732/4****Matrix: Solid****Analysis Batch: 266732****Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte             | Spike |  | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec.    | RPD | RPD Limit |
|---------------------|-------|--|-------------|----------------|-------|---|------|----------|-----|-----------|
|                     | Added |  |             |                |       |   |      |          |     |           |
| Benzene             | 50.0  |  | 55.06       |                | ug/Kg |   | 110  | 70 - 131 | 13  | 30        |
| Ethylbenzene        | 50.0  |  | 43.20       |                | ug/Kg |   | 86   | 66 - 130 | 10  | 30        |
| Toluene             | 50.0  |  | 45.02       |                | ug/Kg |   | 90   | 67 - 130 | 11  | 30        |
| Xylenes, Total      | 100   |  | 86.50       |                | ug/Kg |   | 87   | 63 - 130 | 9   | 30        |
| m-Xylene & p-Xylene | 50.0  |  | 44.18       |                | ug/Kg |   | 88   | 64 - 130 | 8   | 30        |
| o-Xylene            | 50.0  |  | 42.32       |                | ug/Kg |   | 85   | 62 - 130 | 9   | 30        |

| Surrogate                    | LCSD      |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 91        |           | 61 - 130 |          | 06/07/19 11:26 | 1       |
| Dibromofluoromethane         | 104       |           | 68 - 140 |          | 06/07/19 11:26 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 50 - 130 |          | 06/07/19 11:26 | 1       |
| 4-Bromofluorobenzene         | 105       |           | 57 - 140 |          | 06/07/19 11:26 | 1       |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Lab Sample ID: MB 600-266909/1-A****Matrix: Solid****Analysis Batch: 266911****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 266909**

| Analyte  | MB     | MB        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D              | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|--------|-----------|-----------|-------|------|----------------|----------------|----------|---------|
|          | Result | Qualifier |        |           |           |       |      |                | Prepared       | Analyzed | Dil Fac |
| C6-C12   | 3.80   | U         | 10.0   |           | 3.80      | mg/Kg |      | 06/11/19 07:01 | 06/11/19 08:33 |          | 1       |
| >C12-C28 | 4.06   | U         | 10.0   |           | 4.06      | mg/Kg |      | 06/11/19 07:01 | 06/11/19 08:33 |          | 1       |
| >C28-C35 | 4.06   | U         | 10.0   |           | 4.06      | mg/Kg |      | 06/11/19 07:01 | 06/11/19 08:33 |          | 1       |

| Surrogate          | MB     | MB        | %Recovery | Qualifier | Limits | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
|                    | Result | Qualifier |           |           |        |                |                |         |
| <i>o-Terphenyl</i> | 97     |           | 70 - 130  |           |        | 06/11/19 07:01 | 06/11/19 08:33 | 1       |

**Lab Sample ID: LCS 600-266909/2-A****Matrix: Solid****Analysis Batch: 266911****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 266909**

| Analyte  | MB     | MB        | Spike | LCS   | LCS    | Unit      | D | %Rec. | Limits   |
|----------|--------|-----------|-------|-------|--------|-----------|---|-------|----------|
|          | Result | Qualifier |       | Added | Result | Qualifier | D | %Rec. | Limits   |
| C6-C12   | 252    |           | 252   | 253.4 |        | mg/Kg     |   | 101   | 75 - 125 |
| >C12-C28 | 250    |           | 250   | 277.6 |        | mg/Kg     |   | 111   | 75 - 125 |

| Surrogate          | MB     | MB        | %Recovery | Qualifier | Limits | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
|                    | Result | Qualifier |           |           |        |                |                |         |
| <i>o-Terphenyl</i> | 109    |           | 70 - 130  |           |        | 06/11/19 07:01 | 06/11/19 08:33 | 1       |

**Lab Sample ID: LCSD 600-266909/3-A****Matrix: Solid****Analysis Batch: 266911****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 266909**

| Analyte  | MB     | MB        | Spike | LCSD  | LCSD   | Unit      | D | %Rec. | RPD      |
|----------|--------|-----------|-------|-------|--------|-----------|---|-------|----------|
|          | Result | Qualifier |       | Added | Result | Qualifier | D | %Rec. | RPD      |
| C6-C12   | 252    |           | 252   | 241.1 |        | mg/Kg     |   | 96    | 75 - 125 |
| >C12-C28 | 250    |           | 250   | 281.5 |        | mg/Kg     |   | 113   | 75 - 125 |

| Surrogate          | MB     | MB        | %Recovery | Qualifier | Limits | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
|                    | Result | Qualifier |           |           |        |                |                |         |
| <i>o-Terphenyl</i> | 106    |           | 70 - 130  |           |        | 06/11/19 07:01 | 06/11/19 08:33 | 1       |

**Lab Sample ID: 600-186721-C-1-C MS****Matrix: Solid****Analysis Batch: 266911****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 266909**

| Analyte  | Sample | Sample    | Spike | MS    | MS     | Unit      | D | %Rec. | RPD      |
|----------|--------|-----------|-------|-------|--------|-----------|---|-------|----------|
|          | Result | Qualifier |       | Added | Result | Qualifier | D | %Rec. | RPD      |
| C6-C12   | 3.79   | U         | 251   | 232.3 |        | mg/Kg     |   | 93    | 75 - 125 |
| >C12-C28 | 82.1   |           | 249   | 235.1 | N1     | mg/Kg     |   | 61    | 75 - 125 |

| Surrogate          | Sample | Sample    | Spike    | MS    | MS     | Unit      | D | %Rec. | RPD |
|--------------------|--------|-----------|----------|-------|--------|-----------|---|-------|-----|
|                    | Result | Qualifier |          | Added | Result | Qualifier | D | %Rec. | RPD |
| <i>o-Terphenyl</i> | 96     |           | 70 - 130 |       |        |           |   |       |     |

**Lab Sample ID: 600-186721-C-1-D MSD****Matrix: Solid****Analysis Batch: 266911****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 266909**

| Analyte  | Sample | Sample    | Spike | MSD   | MSD    | Unit      | D | %Rec. | RPD      |
|----------|--------|-----------|-------|-------|--------|-----------|---|-------|----------|
|          | Result | Qualifier |       | Added | Result | Qualifier | D | %Rec. | RPD      |
| C6-C12   | 3.79   | U         | 252   | 222.3 |        | mg/Kg     |   | 88    | 75 - 125 |
| >C12-C28 | 82.1   |           | 250   | 228.2 | N1     | mg/Kg     |   | 58    | 75 - 125 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC) (Continued)**

Lab Sample ID: 600-186721-C-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 266911

Prep Batch: 266909

| Surrogate   | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|-------------|------------------|------------------|----------|
| o-Terphenyl | 97               |                  | 70 - 130 |

**Method: 9056A - Anions, Ion Chromatography**

Lab Sample ID: MB 600-266947/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 266949

| Analyte  | MB<br>Result | MB<br>Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----------|-------|-------|---|----------|----------------|---------|
| Chloride | 0.534        | U               | 4.00      | 0.534 | mg/Kg |   |          | 06/11/19 11:45 | 1       |

Lab Sample ID: LCS 600-266947/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 266949

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec. | Limits   |
|----------|----------------|---------------|------------------|-------|---|-------|----------|
| Chloride | 200            | 190.7         |                  | mg/Kg |   | 95    | 90 - 110 |

Lab Sample ID: 600-186688-2 MS

Client Sample ID: Onsurez#2-2-S-0'-0.5'-190606

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 266949

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec. | Limits   |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|-------|----------|
| Chloride | 1630             |                     | 2010           | 3194         | N1              | mg/Kg |   | 78    | 80 - 120 |

Lab Sample ID: 600-186688-2 MSD

Client Sample ID: Onsurez#2-2-S-0'-0.5'-190606

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 266949

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec. | Limits   | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|-------|----------|-----|-------|
| Chloride | 1630             |                     | 2010           | 3218          | N1               | mg/Kg |   | 79    | 80 - 120 | 1   | 20    |

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**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.

Job ID: 600-186688-1

Project/Site: E Loving Field/ Onsurez # 2

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Prep: 5030B**

| Analyte        | MQL  | MDL   | Units |
|----------------|------|-------|-------|
| Benzene        | 5.00 | 0.630 | ug/Kg |
| Ethylbenzene   | 5.00 | 1.02  | ug/Kg |
| Toluene        | 5.00 | 1.38  | ug/Kg |
| Xylenes, Total | 5.00 | 1.13  | ug/Kg |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Prep: TX\_1005\_S\_Prep**

| Analyte  | MQL  | MDL  | Units |
|----------|------|------|-------|
| >C12-C28 | 10.0 | 4.06 | mg/Kg |
| >C28-C35 | 10.0 | 4.06 | mg/Kg |
| C6-C12   | 10.0 | 3.80 | mg/Kg |

**Method: 9056A - Anions, Ion Chromatography - Soluble****Leach: DI Leach**

| Analyte  | MQL  | MDL   | Units |
|----------|------|-------|-------|
| Chloride | 4.00 | 0.534 | mg/Kg |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**GC/MS VOA****Analysis Batch: 266732**

| Lab Sample ID     | Client Sample ID             | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------------|-----------|--------|--------|------------|
| 600-186688-1      | Onsurez#2-1-S-0'-0.5'-190606 | Total/NA  | Solid  | 8260B  | 266749     |
| 600-186688-2      | Onsurez#2-2-S-0'-0.5'-190606 | Total/NA  | Solid  | 8260B  | 266749     |
| 600-186688-3      | Onsurez#2-3-S-0'-0.5'-190606 | Total/NA  | Solid  | 8260B  | 266749     |
| 600-186688-4      | Onsurez#2-4-S-0'-0.5'-190606 | Total/NA  | Solid  | 8260B  | 266749     |
| MB 600-266732/6   | Method Blank                 | Total/NA  | Solid  | 8260B  |            |
| LCS 600-266732/3  | Lab Control Sample           | Total/NA  | Solid  | 8260B  |            |
| LCSD 600-266732/4 | Lab Control Sample Dup       | Total/NA  | Solid  | 8260B  |            |

**Prep Batch: 266749**

| Lab Sample ID | Client Sample ID             | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------------|-----------|--------|--------|------------|
| 600-186688-1  | Onsurez#2-1-S-0'-0.5'-190606 | Total/NA  | Solid  | 5030B  |            |
| 600-186688-2  | Onsurez#2-2-S-0'-0.5'-190606 | Total/NA  | Solid  | 5030B  |            |
| 600-186688-3  | Onsurez#2-3-S-0'-0.5'-190606 | Total/NA  | Solid  | 5030B  |            |
| 600-186688-4  | Onsurez#2-4-S-0'-0.5'-190606 | Total/NA  | Solid  | 5030B  |            |

**GC Semi VOA****Pre Prep Batch: 266908**

| Lab Sample ID        | Client Sample ID             | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------------|-----------|--------|----------|------------|
| 600-186688-1         | Onsurez#2-1-S-0'-0.5'-190606 | Total/NA  | Solid  | Frozen   |            |
| 600-186688-2         | Onsurez#2-2-S-0'-0.5'-190606 | Total/NA  | Solid  | Preserve |            |
| 600-186688-3         | Onsurez#2-3-S-0'-0.5'-190606 | Total/NA  | Solid  | Frozen   |            |
| 600-186688-4         | Onsurez#2-4-S-0'-0.5'-190606 | Total/NA  | Solid  | Preserve |            |
| 600-186721-C-1-C MS  | Matrix Spike                 | Total/NA  | Solid  | Frozen   |            |
| 600-186721-C-1-D MSD | Matrix Spike Duplicate       | Total/NA  | Solid  | Preserve |            |
|                      |                              |           |        | Frozen   |            |
|                      |                              |           |        | Preserve |            |

**Prep Batch: 266909**

| Lab Sample ID        | Client Sample ID             | Prep Type | Matrix | Method        | Prep Batch |
|----------------------|------------------------------|-----------|--------|---------------|------------|
| 600-186688-1         | Onsurez#2-1-S-0'-0.5'-190606 | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
| 600-186688-2         | Onsurez#2-2-S-0'-0.5'-190606 | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
| 600-186688-3         | Onsurez#2-3-S-0'-0.5'-190606 | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
| 600-186688-4         | Onsurez#2-4-S-0'-0.5'-190606 | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
| MB 600-266909/1-A    | Method Blank                 | Total/NA  | Solid  | TX_1005_S_Pre |            |
| LCS 600-266909/2-A   | Lab Control Sample           | Total/NA  | Solid  | TX_1005_S_Pre |            |
| LCSD 600-266909/3-A  | Lab Control Sample Dup       | Total/NA  | Solid  | TX_1005_S_Pre |            |
| 600-186721-C-1-C MS  | Matrix Spike                 | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
| 600-186721-C-1-D MSD | Matrix Spike Duplicate       | Total/NA  | Solid  | TX_1005_S_Pre | 266908     |
|                      |                              |           |        | p             |            |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**GC Semi VOA****Analysis Batch: 266911**

| Lab Sample ID        | Client Sample ID             | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------------|-----------|--------|--------|------------|
| 600-186688-1         | Onsurez#2-1-S-0'-0.5'-190606 | Total/NA  | Solid  | 8015_M | 266909     |
| 600-186688-3         | Onsurez#2-3-S-0'-0.5'-190606 | Total/NA  | Solid  | 8015_M | 266909     |
| 600-186688-4         | Onsurez#2-4-S-0'-0.5'-190606 | Total/NA  | Solid  | 8015_M | 266909     |
| MB 600-266909/1-A    | Method Blank                 | Total/NA  | Solid  | 8015_M | 266909     |
| LCS 600-266909/2-A   | Lab Control Sample           | Total/NA  | Solid  | 8015_M | 266909     |
| LCSD 600-266909/3-A  | Lab Control Sample Dup       | Total/NA  | Solid  | 8015_M | 266909     |
| 600-186721-C-1-C MS  | Matrix Spike                 | Total/NA  | Solid  | 8015_M | 266909     |
| 600-186721-C-1-D MSD | Matrix Spike Duplicate       | Total/NA  | Solid  | 8015_M | 266909     |

**Analysis Batch: 266922**

| Lab Sample ID | Client Sample ID             | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------------|-----------|--------|--------|------------|
| 600-186688-2  | Onsurez#2-2-S-0'-0.5'-190606 | Total/NA  | Solid  | 8015_M | 266909     |

**HPLC/IC****Leach Batch: 266947**

| Lab Sample ID      | Client Sample ID             | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------------|-----------|--------|----------|------------|
| 600-186688-1       | Onsurez#2-1-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |
| 600-186688-2       | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |
| 600-186688-3       | Onsurez#2-3-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |
| 600-186688-4       | Onsurez#2-4-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |
| MB 600-266947/1-A  | Method Blank                 | Soluble   | Solid  | DI Leach |            |
| LCS 600-266947/2-A | Lab Control Sample           | Soluble   | Solid  | DI Leach |            |
| 600-186688-2 MS    | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |
| 600-186688-2 MSD   | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | DI Leach |            |

**Analysis Batch: 266949**

| Lab Sample ID      | Client Sample ID             | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------------|-----------|--------|--------|------------|
| 600-186688-1       | Onsurez#2-1-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |
| 600-186688-2       | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |
| 600-186688-3       | Onsurez#2-3-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |
| 600-186688-4       | Onsurez#2-4-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |
| MB 600-266947/1-A  | Method Blank                 | Soluble   | Solid  | 9056A  | 266947     |
| LCS 600-266947/2-A | Lab Control Sample           | Soluble   | Solid  | 9056A  | 266947     |
| 600-186688-2 MS    | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |
| 600-186688-2 MSD   | Onsurez#2-2-S-0'-0.5'-190606 | Soluble   | Solid  | 9056A  | 266947     |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

**Client Sample ID: Onsurez#2-1-S-0'-0.5'-190606**  
Date Collected: 06/06/19 15:48  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-1**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030B           |     |                 | 266749       | 06/07/19 10:23       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260B           |     | 1               | 266732       | 06/07/19 15:34       | WS1     | TAL HOU |
| Total/NA  | Pre Prep   | Frozen Preserve |     |                 | 266908       | 06/07/19 18:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_S_Prep  |     |                 | 266909       | 06/11/19 10:07       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M          |     | 1               | 266911       | 06/11/19 17:32       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach        |     |                 | 266947       | 06/11/19 09:55       | DAW     | TAL HOU |
| Soluble   | Analysis   | 9056A           |     | 1               | 266949       | 06/11/19 13:25       | DAW     | TAL HOU |

**Client Sample ID: Onsurez#2-2-S-0'-0.5'-190606**  
Date Collected: 06/06/19 15:50  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-2**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030B           |     |                 | 266749       | 06/07/19 10:23       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260B           |     | 1               | 266732       | 06/07/19 15:58       | WS1     | TAL HOU |
| Total/NA  | Pre Prep   | Frozen Preserve |     |                 | 266908       | 06/07/19 18:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_S_Prep  |     |                 | 266909       | 06/11/19 10:07       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M          |     | 1               | 266922       | 06/12/19 07:58       | PXS     | TAL HOU |
| Soluble   | Leach      | DI Leach        |     |                 | 266947       | 06/11/19 09:55       | DAW     | TAL HOU |
| Soluble   | Analysis   | 9056A           |     | 20              | 266949       | 06/11/19 12:25       | DAW     | TAL HOU |

**Client Sample ID: Onsurez#2-3-S-0'-0.5'-190606**  
Date Collected: 06/06/19 15:56  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-3**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030B           |     |                 | 266749       | 06/07/19 10:23       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260B           |     | 1               | 266732       | 06/07/19 16:22       | WS1     | TAL HOU |
| Total/NA  | Pre Prep   | Frozen Preserve |     |                 | 266908       | 06/07/19 18:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_S_Prep  |     |                 | 266909       | 06/11/19 10:07       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M          |     | 1               | 266911       | 06/11/19 18:41       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach        |     |                 | 266947       | 06/11/19 09:55       | DAW     | TAL HOU |
| Soluble   | Analysis   | 9056A           |     | 1               | 266949       | 06/11/19 13:45       | DAW     | TAL HOU |

**Client Sample ID: Onsurez#2-4-S-0'-0.5'-190606**  
Date Collected: 06/06/19 16:00  
Date Received: 06/07/19 08:28

**Lab Sample ID: 600-186688-4**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method    | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030B           |     |                 | 266749       | 06/07/19 10:23       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260B           |     | 1               | 266732       | 06/07/19 16:46       | WS1     | TAL HOU |
| Total/NA  | Pre Prep   | Frozen Preserve |     |                 | 266908       | 06/07/19 18:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_S_Prep  |     |                 | 266909       | 06/11/19 10:07       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M          |     | 1               | 266911       | 06/11/19 19:50       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach        |     |                 | 266947       | 06/11/19 09:55       | DAW     | TAL HOU |
| Soluble   | Analysis   | 9056A           |     | 25              | 266949       | 06/11/19 14:05       | DAW     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field/ Onsurez # 2

Job ID: 600-186688-1

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**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: 600-186688-1

Project/Site: E Loving Field/ Onsurez # 2

### Laboratory: Eurofins TestAmerica, Houston

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

| Authority | Program       | EPA Region | Identification Number | Expiration Date |
|-----------|---------------|------------|-----------------------|-----------------|
| Louisiana | NELAP         | 6          | 01967                 | 06-30-19        |
| Oklahoma  | State Program | 6          | 2018-052              | 08-31-19        |
| Texas     | NELAP         | 6          | T104704223-18-23      | 10-31-19        |
| USDA      | Federal       |            | P330-18-00130         | 04-30-21        |

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Eurofins TestAmerica, Houston

### **Chain of Custody Record**

Eurotins TestAmerica, Houston

3310 Rothway Street  
Houston, TX 77040  
Phone (713) 690-4444 Fax (713) 690-5646

TestAmerica Houston

Loc: 600  
**186688**

# TestAmerica

---

## Sample Receipt Checklist

JOB NUMBER: 186688

UNPACKED BY: PD

Custody Seal Present:  YES  NO

Date/Time Received:

**CLIENT:**

**CARRIER/DRIVER:**

Number of Coolers Received: \_\_\_\_\_

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

pH paper Lot # \_\_\_\_\_

VOA headspace acceptable (5-6mm):  YES  NO  NA

**YES      NO**

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

**COMMENTS:**

RD 6/7/9



600-186688 Waybill

ORIGIN ID:LBBA (806) 543-1945  
RYAN MANNY  
3013 108 ST  
LUBBOCK, TX 79423  
UNITED STATES US

SHIP DATE: 05JUN11  
ACTWGT: 56.00 LB  
CAD: 006994406/SSFE2  
DIMS: 24x13x14 IN  
BILL THIRD PARTY

TO: EUROFINS TESTAMERICA, HOUSTON

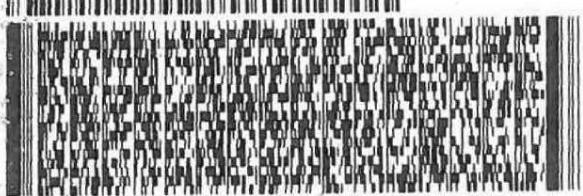
6310 ROTHWAY ST

HOUSTON TX 77040

(713) 690-4444  
TRK#  
0201

REF:

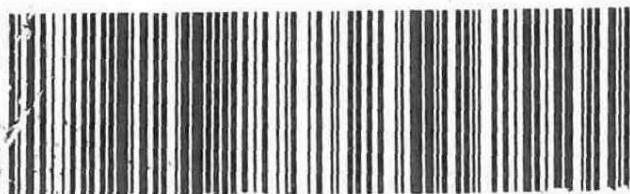
DEPT:



FRI - 07 JUN 10:30A  
TRK# 7877 3264 2020 PRIORITY OVERNIGHT

AB LKSA

77040  
TX-US IAH



## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-186688-1

**Login Number:** 186688**List Source:** Eurofins TestAmerica, Houston**List Number:** 1**Creator:** Daley, Phoenix 1

| Question   | Answer | Comment                                     |    |
|--|--------|---|----|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A    | Lab does not accept radioactive samples.    | 6  |
| The cooler's custody seal, if present, is intact.                                | True   |   | 7  |
| Sample custody seals, if present, are intact.                                    | True   |   | 8  |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |   | 9  |
| Samples were received on ice.  | True   |   | 10 |
| Cooler Temperature is acceptable.  | True   |   | 11 |
| Cooler Temperature is recorded.  | True   | 2.7   | 12 |
| COC is present.  | True   |   | 13 |
| COC is filled out in ink and legible.  | True   |   | 14 |
| 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. |    |

## APPENDIX C

### Historical Excavation Backfill Photograph Log

## PHOTOGRAPH LOG

Chevron Environmental Management Company  
Onsurez 2  
Loving, New Mexico



**Photograph: 1**

**Description:** Southern portion of the historical excavation

**Location:** Onsurez 2



**Photograph: 2**

**Description:** Backfilling the lined historical excavation

**Location:** Onsurez 2

## PHOTOGRAPH LOG

Chevron Environmental Management Company  
Onsurez 2  
Loving, New Mexico



**Photograph: 3**

**Description:**  
**Additional view of  
backfilling the lined  
historical excavation**

**Location: Onsurez 2**



**Photograph: 4**

**Description:**  
**Additional view of the  
backfilling activities  
for the lined historical  
excavation**

**Location: Onsurez 2**

## PHOTOGRAPH LOG

Chevron Environmental Management Company  
Onsurez 2  
Loving, New Mexico



**Photograph: 5**

**Description:**  
**Additional view of backfilling the lined historical excavation**

**Location: Onsurez 2**



**Photograph: 6**

**Description:**  
**Backfilled historical excavation**

**Location: Onsurez 2**

## APPENDIX D

### NMOCD Correspondence

**From:** [Weaver, Crystal, EMNRD](#)  
**To:** ["John Turner"; Bratcher, Mike, EMNRD; Billings, Bradford, EMNRD](#)  
**Cc:** [Dusty Henderson \(dhenderson@cslease.com\); Nick Koch; Jamie Robinson; Mike Martin](#)  
**Subject:** RE: Onsurez #2 Remediation Case #2RP-4255  
**Date:** Friday, December 29, 2017 1:12:00 PM

---

Rockcliff \* Onsurez #2 \* 30-015-26472 \* 2RP-4255

Greetings,

OCD approves the most current work plan submitted on 11/3/17 with the following notes and conditions:

- Locational placement of a background temporary water monitoring well will have to be placed a good deal further from the impact/spill zone. Please contact Bradford Billings for further direction if unable to conclude upon a better location for placement.
- If ground water is found to be impacted Rockcliff will need to contact OCD before any further work is done so that definitive placement of monitoring wells etc. can be discussed and agreed upon and an action plan can be put into place to move forward on.
- All materials of waste nature (solids and liquids) generated by placement of wells/borings and ground water sampling shall be disposed of at a OCD approved facility.
- Delineation sample point locations need to be brought in closer to the spill site and be in areas where inconclusive sampling results were left off from previous contractors work, i.e. please move the proposed placement marked on your map as South Excavated Area to be closer to the ES5 and OS5 marked points, also your location titled Southeast Delineation needs to be brought in closer to ES6, your location titled East Delineation needs to be brought in closer to ES10, your location titled North Excavated Area needs to be brought closer to ES3.
- Delineations will need to be conclusive for both vertical and horizontal assessments that show lab conclusive data that is at or below the levels mentioned in the current work plan i.e.
  - Benzene – 10 ppm (mg/kg)
  - BTEX – 50 ppm (mg/kg)
  - TPH – 100 ppm (mg/kg)
  - Chlorides – 600 ppm (mg/kg)
- Please notify OCD of when remedial activities are scheduled to commence.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

## Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

---

**From:** John Turner [mailto:[John.Turner@Rockcliffenergy.com](mailto:John.Turner@Rockcliffenergy.com)]

**Sent:** Friday, November 3, 2017 11:52 AM

**To:** Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Cc:** Dusty Henderson ([dhenderson@cslease.com](mailto:dhenderson@cslease.com)) <[dhenderson@cslease.com](mailto:dhenderson@cslease.com)>; Nick Koch <[nkoch@rockcliffenergy.com](mailto:nkoch@rockcliffenergy.com)>; Jamie Robinson <[Jamie.Robinson@Rockcliffenergy.com](mailto:Jamie.Robinson@Rockcliffenergy.com)>; Mike Martin <[mike.martin@rockcliffenergy.com](mailto:mike.martin@rockcliffenergy.com)>

**Subject:** Onsurez #2 Remediation Case #2RP-4255

Please find attached the Release Characterization Work Plan (the Work Plan) for the release that occurred at the Onsurez #2 on 6/3/17. The Work Plan will address the horizontal and vertical delineation that the NMOCD has requested. In addition, the report that will be submitted after delineation is complete will address any outstanding questions that have been asked by NMOCD. I would like to briefly discuss the Work Plan with you, Mr. Bratcher and Dusty Henderson, who is the C&S project manager for this Work Plan to make sure you are in agreement prior to beginning work. Please let me know when you are available to discuss, after you have had a chance to review.

Thank you,

**John Turner**

**Rockcliff Energy, LLC**

Sr. Environmental Specialist

342 Johnny Clark Rd

Longview, TX 75603

O: (903) 643-3791

C: (903) 261-4673

[jturner@rockcliffenergy.com](mailto:jturner@rockcliffenergy.com)

## APPENDIX E

### 2020 Soil Analytical Reports



eurofins

Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-205741-1  
Client Project/Site: Chevron Onsurez #2

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

Attn: Sarah Johnson

Sachin Kudchadkar

Authorized for release by:  
6/18/2020 1:31:59 PM

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

### LINKS

Review your project  
results through

**Total Access**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://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 Onsurez #2

Laboratory Job ID: 600-205741-1

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## Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

| Method   | Method Description                           | Protocol | Laboratory |   |
|----------|--|----------|------------|---|
| 8260C    | Volatile Organic Compounds by GC/MS          | SW846    | TAL HOU    | 1 |
| 8015D    | Gasoline Range Organics (GRO) (GC)           | SW846    | TAL HOU    | 2 |
| 8015D    | Diesel Range Organics (DRO) (GC)             | SW846    | TAL HOU    | 3 |
| 300.0    | Anions, Ion Chromatography                   | MCAWW    | TAL HOU    | 4 |
| 2540B    | Percent Moisture                             | SM20     | TAL HOU    | 5 |
| 3546     | Microwave Extraction                         | SW846    | TAL HOU    | 6 |
| 5030C    | Purge and Trap for Solids                    | SW846    | TAL HOU    | 7 |
| 5030C    | Purge and Trap Methanol Dilution             | SW846    | TAL HOU    | 8 |
| DI Leach | Deionized Water Leaching Procedure (Routine) | ASTM     | TAL HOU    | 9 |

**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

Eurofins TestAmerica, Houston

**Sample Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Solid  | 05/26/20 11:31 | 05/27/20 09:47 |          |
| 600-205741-2  | SB-1-S-1-2"-20200526  | Solid  | 05/26/20 11:40 | 05/27/20 09:47 |          |
| 600-205741-3  | SB-1-S-3-4"-20200526  | Solid  | 05/26/20 11:45 | 05/27/20 09:47 |          |
| 600-205741-4  | SB-1-S-5-6"-20200526  | Solid  | 05/26/20 11:50 | 05/27/20 09:47 |          |
| 600-205741-5  | SB-1-S-7-8"-20200526  | Solid  | 05/26/20 11:55 | 05/27/20 09:47 |          |
| 600-205741-6  | SB-1-S-9-10"-20200526 | Solid  | 05/26/20 12:00 | 05/27/20 09:47 |          |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Solid  | 05/26/20 12:20 | 05/27/20 09:47 |          |
| 600-205741-8  | SB-2-S-1-2"-20200526  | Solid  | 05/26/20 12:25 | 05/27/20 09:47 |          |
| 600-205741-9  | SB-2-S-3-4"-20200526  | Solid  | 05/26/20 12:30 | 05/27/20 09:47 |          |
| 600-205741-10 | SB-2-S-5-6"-20200526  | Solid  | 05/26/20 12:35 | 05/27/20 09:47 |          |
| 600-205741-11 | SB-2-S-7-8"-20200526  | Solid  | 05/26/20 12:40 | 05/27/20 09:47 |          |
| 600-205741-12 | SB-2-S-9-10"-20200526 | Solid  | 05/26/20 12:45 | 05/27/20 09:47 |          |

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Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-0-6"-20200526**  
Date Collected: 05/26/20 11:31  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-1**  
Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000670 | U         | 0.00532   | 0.000670 | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Ethylbenzene   | 0.00109  | U         | 0.00532   | 0.00109  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Toluene        | 0.00147  | U         | 0.00532   | 0.00147  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Xylenes, Total | 0.00120  | U         | 0.00532   | 0.00120  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac        |
|------------------------------|-----------|-----------|----------|----------|----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 61 - 130 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| 4-Bromofluorobenzene         | 108       |           | 57 - 140 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| Dibromofluoromethane         | 84        |           | 68 - 140 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 |          | 06/02/20 09:58 | 06/02/20 10:39 |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 18.4   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 81.6   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-0-6"-20200526**

Date Collected: 05/26/20 11:31

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-1**

Matrix: Solid

Percent Solids: 81.6

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.728     | U         | 1.24      | 0.728 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 14:42 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 93        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 14:42 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.08      | U         | 10.1      | 2.08 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 13:50 | 1       |
| C28-C36                         | 26.1      |           | 10.1      | 6.09 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 13:22 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 114       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 13:50 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 767    | F1        | 24.5      | 3.27 | mg/Kg | ⌚ |          | 06/10/20 17:06 | 5       |

**Client Sample ID: SB-1-S-1-2'-20200526**

Date Collected: 05/26/20 11:40

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-2**

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000635  | U         | 0.00504   | 0.000635 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Ethylbenzene                 | 0.00103   | U         | 0.00504   | 0.00103  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Toluene                      | 0.00139   | U         | 0.00504   | 0.00139  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Xylenes, Total               | 0.00114   | U         | 0.00504   | 0.00114  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-1-2'-20200526**  
Date Collected: 05/26/20 11:40  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-2**  
Matrix: Solid

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

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Dibromofluoromethane | 82        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Toluene-d8 (Surr)    | 86        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 2.9    |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 97.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-1-2'-20200526**Date Collected: 05/26/20 11:40  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-2**  
Matrix: Solid  
Percent Solids: 97.1

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.569     | U         | 0.970     | 0.569 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 15:07 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 105       |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 15:07 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| C28-C36 | 271    |           | 17.1      | 10.3 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 13:56 | 2       |

**Method: 8015D - Diesel Range Organics (DRO) (GC) - DL**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 42.2      |           | 17.1      | 3.52 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 20:15 | 2       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 116       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 20:15 | 2       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 819    |           | 20.6      | 2.75 | mg/Kg | ⌚ |          | 06/10/20 18:07 | 5       |

**Client Sample ID: SB-1-S-3-4'-20200526**Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-3**  
Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000625 | U         | 0.00496   | 0.000625 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Ethylbenzene   | 0.00101  | U         | 0.00496   | 0.00101  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Toluene        | 0.00137  | U         | 0.00496   | 0.00137  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Xylenes, Total | 0.00112  | U         | 0.00496   | 0.00112  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |

**Surrogate**

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| 4-Bromofluorobenzene         | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Dibromofluoromethane         | 84        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-3-4'-20200526****Lab Sample ID: 600-205741-3**

Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

Matrix: Solid

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 10.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 89.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-3-4'-20200526****Lab Sample ID: 600-205741-3**

Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 89.5

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.608     | U         | 1.04      | 0.608 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 15:57 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 109       |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 15:57 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.90      | U         | 9.22      | 1.90 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 15:00 | 1       |
| C28-C36                         | 55.0      |           | 9.22      | 5.55 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 14:30 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 115       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 15:00 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 429    |           | 22.3      | 2.98 | mg/Kg | ⌚ |          | 06/10/20 18:27 | 5       |

**Client Sample ID: SB-1-S-5-6'-20200526****Lab Sample ID: 600-205741-4**

Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000625  | U         | 0.00496   | 0.000625 | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Ethylbenzene                 | 0.00101   | U         | 0.00496   | 0.00101  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Toluene                      | 0.00137   | U         | 0.00496   | 0.00137  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Xylenes, Total               | 0.00112   | U         | 0.00496   | 0.00112  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 88        |           | 61 - 130  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| 4-Bromofluorobenzene         | 107       |           | 57 - 140  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Dibromofluoromethane         | 85        |           | 68 - 140  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 19.0   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 81.0   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-5-6'-20200526****Lab Sample ID: 600-205741-4**

Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 81.0

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.719            | U                | 1.23          | 0.719 | mg/Kg | ⊗ | 05/28/20 10:22  | 05/29/20 16:21  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 99               |                  | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 16:21  | 1              |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 2.11             | U                | 10.2          | 2.11 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/04/20 15:35  | 1              |
| <b>C28-C36</b>                  | <b>36.7</b>      |                  | 10.2          | 6.16 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/12/20 15:37  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 100              |                  | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 15:35  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 195    |           | 24.7      | 3.29 | mg/Kg | ⊗ |          | 06/10/20 18:48 | 5       |

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|----------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.000626         | U                | 0.00497       | 0.000626 | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Ethylbenzene                 | 0.00101          | U                | 0.00497       | 0.00101  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Toluene                      | 0.00137          | U                | 0.00497       | 0.00137  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Xylenes, Total               | 0.00112          | U                | 0.00497       | 0.00112  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 83               |                  | 61 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| 4-Bromofluorobenzene         | 109              |                  | 57 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Dibromofluoromethane         | 84               |                  | 68 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Toluene-d8 (Surr)            | 87               |                  | 50 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 13.3   |           | 1.0       | 1.0 | %    | ⊗ |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 86.7   |           | 1.0       | 1.0 | %    | ⊗ |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 86.7

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.683            | U                | 1.17          | 0.683 | mg/Kg | ⊗ | 05/28/20 10:22  | 05/29/20 16:46  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 108              |                  | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 16:46  | 1              |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 86.7

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|------------------|------------------|---------------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.96             | U                | 9.52          | 1.96 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 16:10 | 1       |
| <b>C28-C36</b>                  | <b>27.3</b>      |                  | 9.52          | 5.74 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 16:12 | 1       |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   |                |                |         |
| <i>o-Terphenyl</i>              | 123              |                  | 60 - 140      |      |       |   |                |                |         |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------|---------|
| Chloride | 296    |           | 92.3      | 12.3 | mg/Kg | ⌚ |          |          | 20      |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Date Collected: 05/26/20 12:00  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                             | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------|------------------|------------------|---------------|----------|-------|---|----------------|----------------|---------|
| Benzene                             | 0.000615         | U                | 0.00488       | 0.000615 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Ethylbenzene                        | 0.000996         | U                | 0.00488       | 0.000996 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Toluene                             | 0.00135          | U                | 0.00488       | 0.00135  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Xylenes, Total                      | 0.00110          | U                | 0.00488       | 0.00110  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| <b>Surrogate</b>                    | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   |                |                |         |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 83               |                  | 61 - 130      |          |       |   |                |                |         |
| <i>4-Bromofluorobenzene</i>         | 103              |                  | 57 - 140      |          |       |   |                |                |         |
| <i>Dibromofluoromethane</i>         | 84               |                  | 68 - 140      |          |       |   |                |                |         |
| <i>Toluene-d8 (Surr)</i>            | 89               |                  | 50 - 130      |          |       |   |                |                |         |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------|---------|
| Percent Moisture | 16.3   |           | 1.0       | 1.0 | %    | ⌚ |          |          | 1       |
| Percent Solids   | 83.7   |           | 1.0       | 1.0 | %    | ⌚ |          |          | 1       |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Date Collected: 05/26/20 12:00  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 83.7

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.732            | U                | 1.25          | 0.732 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 17:10 | 1       |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   |                |                |         |
| <i>a,a,a-Trifluorotoluene</i>      | 107              |                  | 70 - 130      |       |       |   |                |                |         |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|------------------|------------------|---------------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.04             | U                | 9.89          | 2.04 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 12:06 | 1       |
| <b>C28-C36</b>                  | <b>24.6</b>      |                  | 9.89          | 5.96 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 16:47 | 1       |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   |                |                |         |
| <i>o-Terphenyl</i>              | 108              |                  | 60 - 140      |      |       |   |                |                |         |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-9-10'-20200526**  
**Date Collected: 05/26/20 12:00**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-6**  
**Matrix: Solid**  
**Percent Solids: 83.7**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 519    |           | 95.5      | 12.8 | mg/Kg | ⊗ |          | 06/10/20 19:28 | 20      |

**Client Sample ID: SB-2-S-0-6"-20200526**  
**Date Collected: 05/26/20 12:20**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-7**  
**Matrix: Solid**

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000608 | U         | 0.00483   | 0.000608 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Ethylbenzene   | 0.000985 | U         | 0.00483   | 0.000985 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Toluene        | 0.00133  | U         | 0.00483   | 0.00133  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Xylenes, Total | 0.00109  | U         | 0.00483   | 0.00109  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| 4-Bromofluorobenzene         | 103       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Dibromofluoromethane         | 83        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 15.6   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 84.4   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-0-6"-20200526**

**Lab Sample ID: 600-205741-7**  
**Matrix: Solid**  
**Percent Solids: 84.4**

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.685     | U         | 1.17      | 0.685 | mg/Kg | ⊗ | 05/28/20 10:22 | 05/29/20 17:35 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 98        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 17:35 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.02      | U         | 9.82      | 2.02 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/04/20 17:21 | 1       |
| C28-C36                         | 25.7      |           | 9.82      | 5.92 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/12/20 18:33 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 102       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 17:21 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 177    |           | 23.7      | 3.16 | mg/Kg | ⊗ |          | 06/10/20 20:30 | 5       |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-1-2'-20200526**  
Date Collected: 05/26/20 12:25  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-8**  
Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000601 | U         | 0.00477   | 0.000601 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Ethylbenzene   | 0.000973 | U         | 0.00477   | 0.000973 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Toluene        | 0.00132  | U         | 0.00477   | 0.00132  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Xylenes, Total | 0.00108  | U         | 0.00477   | 0.00108  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 86        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Dibromofluoromethane         | 85        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 10.9   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 89.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-1-2'-20200526**

Date Collected: 05/26/20 12:25

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-8**

Matrix: Solid

Percent Solids: 89.1

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.670     | U         | 1.14      | 0.670 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 17:59 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 99        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 17:59 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.91      | U         | 9.26      | 1.91 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 17:56 | 1       |
| C28-C36                         | 23.6      |           | 9.26      | 5.58 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 19:08 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 120       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 17:56 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 319    |           | 22.4      | 3.00 | mg/Kg | ⌚ |          | 06/10/20 20:50 | 5       |

**Client Sample ID: SB-2-S-3-4'-20200526**

Date Collected: 05/26/20 12:30

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-9**

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000636  | U         | 0.00505   | 0.000636 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Ethylbenzene                 | 0.00103   | U         | 0.00505   | 0.00103  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Toluene                      | 0.00139   | U         | 0.00505   | 0.00139  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Xylenes, Total               | 0.00114   | U         | 0.00505   | 0.00114  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-3-4'-20200526**  
Date Collected: 05/26/20 12:30  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-9**  
Matrix: Solid

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

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Dibromofluoromethane | 83        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Toluene-d8 (Surr)    | 87        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------------|----------|---------|
| Percent Moisture | 20.3   |           | 1.0       | 1.0 | %    |   | 06/01/20 09:21 |          | 1       |
| Percent Solids   | 79.7   |           | 1.0       | 1.0 | %    |   | 06/01/20 09:21 |          | 1       |

**Client Sample ID: SB-2-S-3-4'-20200526**

Date Collected: 05/26/20 12:30  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-9**  
Matrix: Solid  
Percent Solids: 79.7

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.751     | U         | 1.28      | 0.751 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/30/20 08:13 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 106       |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/30/20 08:13 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.14      | U         | 10.4      | 2.14 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 18:30 | 1       |
| C28-C36                         | 26.6      |           | 10.4      | 6.26 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 19:43 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 116       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 18:30 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------------|----------|---------|
| Chloride | 891    |           | 100       | 13.4 | mg/Kg | ⌚ | 06/10/20 21:10 |          | 20      |

**Client Sample ID: SB-2-S-5-6'-20200526**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-10**  
Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000633  | U         | 0.00502   | 0.000633 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Ethylbenzene                 | 0.00102   | U         | 0.00502   | 0.00102  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Toluene                      | 0.00139   | U         | 0.00502   | 0.00139  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Xylenes, Total               | 0.00113   | U         | 0.00502   | 0.00113  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| 4-Bromofluorobenzene         | 106       |           | 57 - 140  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Dibromofluoromethane         | 84        |           | 68 - 140  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared       | Analyzed | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------------|----------|---------|
| Percent Moisture | 18.5   |           | 1.0       | 1.0 | %    |   | 06/01/20 09:21 |          | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

Matrix: Solid

**General Chemistry (Continued)**

| Analyte        | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Solids | 81.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 81.5

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

| Analyte                            | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.771  | U         | 1.32      | 0.771 | mg/Kg | ⌚ | 05/29/20 11:16 | 05/30/20 08:37 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene | 103       |           | 70 - 130 | 05/29/20 11:16 | 05/30/20 08:37 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.09   | U         | 10.2      | 2.09 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 19:06 | 1       |

| C28-C36     | 24.7      |           | 10.2     | 6.12           | mg/Kg          | ⌚       | 06/03/20 15:12 | 06/12/20 20:18 | 1 |
|-------------|-----------|-----------|----------|----------------|----------------|---------|----------------|----------------|---|
| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |                |                |   |
| o-Terphenyl | 110       |           | 60 - 140 | 06/03/20 15:12 | 06/04/20 19:06 | 1       |                |                |   |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 631    |           | 98.1      | 13.1 | mg/Kg | ⌚ |          | 06/10/20 21:31 | 20      |

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000633 | U         | 0.00502   | 0.000633 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00502   | 0.00102  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Toluene        | 0.00139  | U         | 0.00502   | 0.00139  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00502   | 0.00113  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 83        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| 4-Bromofluorobenzene         | 103       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Dibromofluoromethane         | 82        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 17.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 82.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.5

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.696            | U                | 1.19          | 0.696 | mg/Kg | ⊗ | 05/29/20 11:16  | 05/30/20 09:01  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 100              |                  | 70 - 130      |       |       |   | 05/29/20 11:16  | 05/30/20 09:01  | 1              |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 3.11             | U                | 15.1          | 3.11 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/09/20 15:15  | 1              |
| <b>C28-C36</b>                  | <b>16.9</b>      |                  | 10.0          | 6.03 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/12/20 23:10  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 84               |                  | 60 - 140      |      |       |   | 06/08/20 12:04  | 06/09/20 15:15  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 734    | F1        | 96.9      | 12.9 | mg/Kg | ⊗ |          | 06/10/20 21:51 | 20      |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|----------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.000630         | U                | 0.00500       | 0.000630 | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Ethylbenzene                 | 0.00102          | U                | 0.00500       | 0.00102  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Toluene                      | 0.00138          | U                | 0.00500       | 0.00138  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Xylenes, Total               | 0.00113          | U                | 0.00500       | 0.00113  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 85               |                  | 61 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| 4-Bromofluorobenzene         | 108              |                  | 57 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Dibromofluoromethane         | 87               |                  | 68 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Toluene-d8 (Surr)            | 89               |                  | 50 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 17.9   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 82.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.1

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.675            | U                | 1.15          | 0.675 | mg/Kg | ⊗ | 05/29/20 11:16  | 05/30/20 09:26  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 99               |                  | 70 - 130      |       |       |   | 05/29/20 11:16  | 05/30/20 09:26  | 1              |

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
 Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.1

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 36.9             |                  | 30.3          | 6.25 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/09/20 15:51  | 1              |
| C28-C36                         | 52.7             |                  | 30.3          | 18.3 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/12/20 23:44  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>o-Terphenyl</i>              | 86               |                  | 60 - 140      |      |       |   | 06/08/20 12:04  | 06/09/20 15:51  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 556    |           | 48.7      | 6.50 | mg/Kg | ⊗ |          | 06/10/20 22:52 | 10      |

Eurofins TestAmerica, Houston

## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

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

Eurofins TestAmerica, Houston

**Surrogate Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|-------------------|------------------------|--|-----------------|------------------|-----------------|
|                   |                        | DCA<br>(61-130)                                | BFB<br>(57-140) | DBFM<br>(68-140) | TOL<br>(50-130) |
| 600-205741-1      | SB-1-S-0-6"-20200526   | 90   | 108             | 84               | 85              |
| 600-205741-2      | SB-1-S-1-2'-20200526   | 87   | 106             | 82               | 86              |
| 600-205741-3      | SB-1-S-3-4'-20200526   | 85   | 106             | 84               | 86              |
| 600-205741-4      | SB-1-S-5-6'-20200526   | 88   | 107             | 85               | 87              |
| 600-205741-5      | SB-1-S-7-8'-20200526   | 83   | 109             | 84               | 87              |
| 600-205741-6      | SB-1-S-9-10'-20200526  | 83   | 103             | 84               | 89              |
| 600-205741-7      | SB-2-S-0-6"-20200526   | 85   | 103             | 83               | 85              |
| 600-205741-8      | SB-2-S-1-2'-20200526   | 86   | 110             | 85               | 91              |
| 600-205741-9      | SB-2-S-3-4'-20200526   | 85   | 106             | 83               | 87              |
| 600-205741-10     | SB-2-S-5-6'-20200526   | 87   | 106             | 84               | 87              |
| 600-205741-11     | SB-2-S-7-8'-20200526   | 83   | 103             | 82               | 85              |
| 600-205741-12     | SB-2-S-9-10'-20200526  | 85   | 108             | 87               | 89              |
| LCS 600-295568/3  | Lab Control Sample     | 85   | 111             | 88               | 92              |
| LCS 600-295613/3  | Lab Control Sample     | 90   | 110             | 88               | 90              |
| LCSD 600-295568/4 | Lab Control Sample Dup | 80   | 101             | 84               | 90              |
| LCSD 600-295613/4 | Lab Control Sample Dup | 93   | 110             | 89               | 90              |
| MB 600-295568/6   | Method Blank           | 85   | 108             | 83               | 89              |
| MB 600-295613/6   | Method Blank           | 103  | 107             | 88               | 87              |

**Surrogate Legend**

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

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |
|---------------------|------------------------|--|--|--|--|
|                     |                        | TFT1<br>(70-130)                               |  |  |  |
| 600-205741-1        | SB-1-S-0-6"-20200526   | 93   |  |  |  |
| 600-205741-2        | SB-1-S-1-2'-20200526   | 105  |  |  |  |
| 600-205741-3        | SB-1-S-3-4'-20200526   | 109  |  |  |  |
| 600-205741-4        | SB-1-S-5-6'-20200526   | 99   |  |  |  |
| 600-205741-5        | SB-1-S-7-8'-20200526   | 108  |  |  |  |
| 600-205741-6        | SB-1-S-9-10'-20200526  | 107  |  |  |  |
| 600-205741-7        | SB-2-S-0-6"-20200526   | 98   |  |  |  |
| 600-205741-8        | SB-2-S-1-2'-20200526   | 99   |  |  |  |
| 600-205741-9        | SB-2-S-3-4'-20200526   | 106  |  |  |  |
| 600-205741-10       | SB-2-S-5-6'-20200526   | 103  |  |  |  |
| 600-205741-11       | SB-2-S-7-8'-20200526   | 100  |  |  |  |
| 600-205741-12       | SB-2-S-9-10'-20200526  | 99   |  |  |  |
| LCS 600-295090/1-A  | Lab Control Sample     | 95   |  |  |  |
| LCSD 600-295090/2-A | Lab Control Sample Dup | 94   |  |  |  |
| MB 600-295090/3-A   | Method Blank           | 93   |  |  |  |

**Surrogate Legend**

TFT = a,a,a-Trifluorotoluene

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**Surrogate Summary**

Client: ARCADIS U.S., Inc.

Job ID: 600-205741-1

Project/Site: Chevron Onsurez #2

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID       | Client Sample ID       | OTPH<br>(60-140) | Percent Surrogate Recovery (Acceptance Limits) |     |     |     |     |     |     |     |     |     |     |
|---------------------|------------------------|------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     |                        |                  | 100  | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 600-205741-1        | SB-1-S-0-6"-20200526   | 114              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-2 - DL   | SB-1-S-1-2'-20200526   | 116              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-3        | SB-1-S-3-4'-20200526   | 115              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-4        | SB-1-S-5-6'-20200526   | 100              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-5        | SB-1-S-7-8'-20200526   | 123              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6        | SB-1-S-9-10'-20200526  | 108              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 127              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 130              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 125              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 121              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 127              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 117              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-7        | SB-2-S-0-6"-20200526   | 102              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-8        | SB-2-S-1-2'-20200526   | 120              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-9        | SB-2-S-3-4'-20200526   | 116              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-10       | SB-2-S-5-6'-20200526   | 110              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-11       | SB-2-S-7-8'-20200526   | 84               |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | 86               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 73               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 132              |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 98               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-296079/2-A  | Lab Control Sample     | 101              |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-296079/2-A  | Lab Control Sample     | 114              |  |     |     |     |     |     |     |     |     |     |     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | 107              |  |     |     |     |     |     |     |     |     |     |     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | 111              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 138              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 123              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 91               |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-296079/1-A   | Method Blank           | 98               |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-296079/1-A   | Method Blank           | 95               |  |     |     |     |     |     |     |     |     |     |     |

**Surrogate Legend**

OTPH = o-Terphenyl

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8260C - Volatile Organic Compounds by GC/MS****Lab Sample ID: MB 600-295568/6****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB       |           | MQL (Adj) | SDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------|----------------|---------|
|                | Result   | Qualifier |           |          |       |   |          |                |         |
| Benzene        | 0.000630 | U         | 0.00500   | 0.000630 | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00500   | 0.00102  | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Toluene        | 0.00138  | U         | 0.00500   | 0.00138  | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00500   | 0.00113  | mg/Kg |   |          | 06/01/20 14:59 | 1       |

**MB****MB**

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 |          | 06/01/20 14:59 | 1       |
| 4-Bromofluorobenzene         | 108       |           | 57 - 140 |          | 06/01/20 14:59 | 1       |
| Dibromofluoromethane         | 83        |           | 68 - 140 |          | 06/01/20 14:59 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 50 - 130 |          | 06/01/20 14:59 | 1       |

**Lab Sample ID: LCS 600-295568/3****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCS Result | LCS Qualifier | Unit | D        | %Rec | %Rec. | Limits |
|---------------------|--------|---------|------------|---------------|------|----------|------|-------|--------|
|                     | Added  | Result  |            |               |      |          |      |       |        |
| Benzene             | 0.0500 | 0.04508 | mg/Kg      |               | 90   | 70 - 131 |      |       |        |
| Ethylbenzene        | 0.0500 | 0.04410 | mg/Kg      |               | 88   | 66 - 130 |      |       |        |
| Toluene             | 0.0500 | 0.04345 | mg/Kg      |               | 87   | 67 - 130 |      |       |        |
| Xylenes, Total      | 0.100  | 0.08787 | mg/Kg      |               | 88   | 63 - 130 |      |       |        |
| m-Xylene & p-Xylene | 0.0500 | 0.04359 | mg/Kg      |               | 87   | 64 - 130 |      |       |        |
| o-Xylene            | 0.0500 | 0.04428 | mg/Kg      |               | 89   | 62 - 130 |      |       |        |

**LCS****LCS**

| Surrogate                    | LCS       |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 |          | 06/01/20 14:59 | 1       |
| 4-Bromofluorobenzene         | 111       |           | 57 - 140 |          | 06/01/20 14:59 | 1       |
| Dibromofluoromethane         | 88        |           | 68 - 140 |          | 06/01/20 14:59 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 50 - 130 |          | 06/01/20 14:59 | 1       |

**Lab Sample ID: LCSD 600-295568/4****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCSD Result | LCSD Qualifier | Unit | D        | %Rec | %Rec. | RPD | RPD Limit |
|---------------------|--------|---------|-------------|----------------|------|----------|------|-------|-----|-----------|
|                     | Added  | Result  |             |                |      |          |      |       |     |           |
| Benzene             | 0.0500 | 0.04399 | mg/Kg       |                | 88   | 70 - 131 |      |       | 2   | 30        |
| Ethylbenzene        | 0.0500 | 0.04094 | mg/Kg       |                | 82   | 66 - 130 |      |       | 7   | 30        |
| Toluene             | 0.0500 | 0.04170 | mg/Kg       |                | 83   | 67 - 130 |      |       | 4   | 30        |
| Xylenes, Total      | 0.100  | 0.08524 | mg/Kg       |                | 85   | 63 - 130 |      |       | 3   | 30        |
| m-Xylene & p-Xylene | 0.0500 | 0.04258 | mg/Kg       |                | 85   | 64 - 130 |      |       | 2   | 30        |
| o-Xylene            | 0.0500 | 0.04266 | mg/Kg       |                | 85   | 62 - 130 |      |       | 4   | 30        |

**LCSD****LCSD**

| Surrogate                    | LCSD      |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 61 - 130 |          | 06/01/20 14:59 | 1       |
| 4-Bromofluorobenzene         | 101       |           | 57 - 140 |          | 06/01/20 14:59 | 1       |
| Dibromofluoromethane         | 84        |           | 68 - 140 |          | 06/01/20 14:59 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |          | 06/01/20 14:59 | 1       |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)****Lab Sample ID: MB 600-295613/6****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB       |           | MQL (Adj) | SDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------|----------------|---------|
|                | Result   | Qualifier |           |          |       |   |          |                |         |
| Benzene        | 0.000630 | U         | 0.00500   | 0.000630 | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00500   | 0.00102  | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Toluene        | 0.00138  | U         | 0.00500   | 0.00138  | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00500   | 0.00113  | mg/Kg |   |          | 06/02/20 09:54 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 61 - 130 |          | 06/02/20 09:54 | 1       |
| 4-Bromofluorobenzene         | 107       |           | 57 - 140 |          | 06/02/20 09:54 | 1       |
| Dibromofluoromethane         | 88        |           | 68 - 140 |          | 06/02/20 09:54 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130 |          | 06/02/20 09:54 | 1       |

**Lab Sample ID: LCS 600-295613/3****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCS Result | LCS Qualifier | Unit     | D | %Rec | %Rec. | Limits |
|---------------------|--------|---------|------------|---------------|----------|---|------|-------|--------|
|                     | Added  | Result  |            |               |          |   |      |       |        |
| Benzene             | 0.0500 | 0.04956 | mg/Kg      | 99            | 70 - 131 |   |      |       |        |
| Ethylbenzene        | 0.0500 | 0.04526 | mg/Kg      | 91            | 66 - 130 |   |      |       |        |
| Toluene             | 0.0500 | 0.04524 | mg/Kg      | 90            | 67 - 130 |   |      |       |        |
| Xylenes, Total      | 0.100  | 0.09186 | mg/Kg      | 92            | 63 - 130 |   |      |       |        |
| m-Xylene & p-Xylene | 0.0500 | 0.04628 | mg/Kg      | 93            | 64 - 130 |   |      |       |        |
| o-Xylene            | 0.0500 | 0.04558 | mg/Kg      | 91            | 62 - 130 |   |      |       |        |

| Surrogate                    | LCS       |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 |
| Dibromofluoromethane         | 88        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |

**Lab Sample ID: LCSD 600-295613/4****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCSD Result | LCSD Qualifier | Unit     | D | %Rec | %Rec. | RPD | RPD Limit |
|---------------------|--------|---------|-------------|----------------|----------|---|------|-------|-----|-----------|
|                     | Added  | Result  |             |                |          |   |      |       |     |           |
| Benzene             | 0.0500 | 0.04647 | mg/Kg       | 93             | 70 - 131 |   | 6    | 30    |     |           |
| Ethylbenzene        | 0.0500 | 0.04234 | mg/Kg       | 85             | 66 - 130 |   | 7    | 30    |     |           |
| Toluene             | 0.0500 | 0.04181 | mg/Kg       | 84             | 67 - 130 |   | 8    | 30    |     |           |
| Xylenes, Total      | 0.100  | 0.08456 | mg/Kg       | 85             | 63 - 130 |   | 8    | 30    |     |           |
| m-Xylene & p-Xylene | 0.0500 | 0.04263 | mg/Kg       | 85             | 64 - 130 |   | 8    | 30    |     |           |
| o-Xylene            | 0.0500 | 0.04193 | mg/Kg       | 84             | 62 - 130 |   | 8    | 30    |     |           |

| Surrogate                    | LCSD      |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 |
| Dibromofluoromethane         | 89        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Gasoline Range Organics (GRO) (GC)****Lab Sample ID: MB 600-295090/3-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|-------------------------|-------------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.586                   | U                       | 1.00          | 0.586 | mg/Kg | D | 05/28/20 10:22  | 05/29/20 09:01  | 1              |
| <b>Surrogate</b>                   | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 93                      |                         | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 09:01  | 1              |

**Lab Sample ID: LCS 600-295090/1-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | Spike<br>Added           | LCS<br>Result            | LCS<br>Qualifier | Unit  | D | %Rec. | Limits   |
|------------------------------------|--------------------------|--------------------------|------------------|-------|---|-------|----------|
| Gasoline Range Organics [C6 - C10] | 5.04                     | 5.822                    |                  | mg/Kg | D | 116   | 70 - 130 |
| <b>Surrogate</b>                   | <b>LCS<br/>%Recovery</b> | <b>LCS<br/>Qualifier</b> | <b>Limits</b>    |       |   |       |          |
| a,a,a-Trifluorotoluene             | 95                       |                          | 70 - 130         |       |   |       |          |

**Lab Sample ID: LCSD 600-295090/2-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | Spike<br>Added            | LCSD<br>Result            | LCSD<br>Qualifier | Unit  | D | %Rec. | RPD      | Limit |
|------------------------------------|---------------------------|---------------------------|-------------------|-------|---|-------|----------|-------|
| Gasoline Range Organics [C6 - C10] | 5.04                      | 6.059                     |                   | mg/Kg | D | 120   | 70 - 130 | 4     |
| <b>Surrogate</b>                   | <b>LCSD<br/>%Recovery</b> | <b>LCSD<br/>Qualifier</b> | <b>Limits</b>     |       |   |       |          |       |
| a,a,a-Trifluorotoluene             | 94                        |                           | 70 - 130          |       |   |       |          |       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 600-295786/1-A****Matrix: Solid****Analysis Batch: 293250**

| Analyte                         | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|-------------------------|-------------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 1.70                    | U                       | 8.25          | 1.70 | mg/Kg | D | 06/03/20 15:12  | 06/04/20 10:46  | 1              |
| <b>Surrogate</b>                | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 138                     |                         | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 10:46  | 1              |

**Lab Sample ID: MB 600-295786/1-A****Matrix: Solid****Analysis Batch: 295826**

| Analyte                         | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|-------------------------|-------------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 1.70                    | U                       | 8.25          | 1.70 | mg/Kg | D | 06/03/20 15:12  | 06/04/20 17:21  | 1              |
| <b>Surrogate</b>                | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 123                     |                         | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 17:21  | 1              |

**Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 295090****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 295090****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 295090****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 295786**

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 600-295786/1-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | MB     | MB        | MQL (Adj) | SDL       | Unit     | D              | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|-----------|----------|----------------|----------------|----------------|---------|
|                                 | Result | Qualifier |           |           |          |                |                |                |         |
| Diesel Range Organics [C10-C28] | 1.70   | U         | 8.25      | 1.70      | mg/Kg    | 06/03/20 15:12 | 06/12/20 12:10 |                | 1       |
| C28-C36                         | 4.97   | U         | 8.25      | 4.97      | mg/Kg    | 06/03/20 15:12 | 06/12/20 12:10 |                | 1       |
| <b>Surrogate</b>                |        |           |           |           |          |                |                |                |         |
| <i>o-Terphenyl</i>              | MB     | MB        | %Recovery | Qualifier | Limits   |                | Prepared       | Analyzed       | Dil Fac |
|                                 |        |           | 91        |           | 60 - 140 |                | 06/03/20 15:12 | 06/12/20 12:10 | 1       |

**Lab Sample ID: LCS 600-295786/2-A****Matrix: Solid****Analysis Batch: 293250****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | MB     | MB        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|---------------------------------|--------|-----------|-------------|------------|---------------|-------|---|------|----------|
|                                 | Result | Qualifier |             |            |               |       |   |      |          |
| Diesel Range Organics [C10-C28] |        |           | 66.5        | 71.32      |               | mg/Kg |   | 107  | 66 - 134 |
| <b>Surrogate</b>                |        |           |             |            |               |       |   |      |          |
| <i>o-Terphenyl</i>              | LCS    | LCS       | %Recovery   | Qualifier  | Limits        |       |   |      |          |
|                                 |        |           | 73          |            | 60 - 140      |       |   |      |          |

**Lab Sample ID: LCS 600-295786/2-A****Matrix: Solid****Analysis Batch: 295826****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | MB     | MB        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|---------------------------------|--------|-----------|-------------|------------|---------------|-------|---|------|----------|
|                                 | Result | Qualifier |             |            |               |       |   |      |          |
| Diesel Range Organics [C10-C28] |        |           | 66.5        | 55.34      |               | mg/Kg |   | 83   | 66 - 134 |
| <b>Surrogate</b>                |        |           |             |            |               |       |   |      |          |
| <i>o-Terphenyl</i>              | LCS    | LCS       | %Recovery   | Qualifier  | Limits        |       |   |      |          |
|                                 |        |           | 132         |            | 60 - 140      |       |   |      |          |

**Lab Sample ID: LCS 600-295786/2-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | MB     | MB        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|---------------------------------|--------|-----------|-------------|------------|---------------|-------|---|------|----------|
|                                 | Result | Qualifier |             |            |               |       |   |      |          |
| Diesel Range Organics [C10-C28] |        |           | 66.5        | 51.49      |               | mg/Kg |   | 77   | 66 - 134 |
| <b>Surrogate</b>                |        |           |             |            |               |       |   |      |          |
| <i>o-Terphenyl</i>              | LCS    | LCS       | %Recovery   | Qualifier  | Limits        |       |   |      |          |
|                                 |        |           | 98          |            | 60 - 140      |       |   |      |          |

**Lab Sample ID: 600-205741-6 MS****Matrix: Solid****Analysis Batch: 293250****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | Sample | Sample    | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|---------------------------------|--------|-----------|-------------|-----------|--------------|-------|---|------|----------|
|                                 | Result | Qualifier |             |           |              |       |   |      |          |
| Diesel Range Organics [C10-C28] | 2.04   | U         | 79.4        | 95.25     |              | mg/Kg | ⊗ | 120  | 66 - 134 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: 600-205741-6 MS****Matrix: Solid****Analysis Batch: 293250****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| <b>Surrogate</b>   | <b>MS</b>        | <b>MS</b>          |
|--------------------|------------------|--------------------|
|                    | <b>%Recovery</b> | <b>Qualifier</b>   |
| <i>o-Terphenyl</i> | 127              | Limits<br>60 - 140 |

**Lab Sample ID: 600-205741-6 MS****Matrix: Solid****Analysis Batch: 295826****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| <b>Analyte</b>                  | <b>Sample Result</b> | <b>Sample Qualifier</b> | <b>Spike Added</b> | <b>MS Result</b> | <b>MS Qualifier</b> | <b>Unit</b> | <b>D</b> | <b>%Rec.</b> | <b>Limits</b> |
|---------------------------------|----------------------|-------------------------|--------------------|------------------|---------------------|-------------|----------|--------------|---------------|
| Diesel Range Organics [C10-C28] | 2.04                 | U                       | 79.4               | 67.78            |                     | mg/Kg       | ⊗        | 85           | 66 - 134      |

| <b>Surrogate</b>   | <b>MS</b>        | <b>MS</b>          |
|--------------------|------------------|--------------------|
|                    | <b>%Recovery</b> | <b>Qualifier</b>   |
| <i>o-Terphenyl</i> | 130              | Limits<br>60 - 140 |

**Lab Sample ID: 600-205741-6 MS****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| <b>Analyte</b>                  | <b>Sample Result</b> | <b>Sample Qualifier</b> | <b>Spike Added</b> | <b>MS Result</b> | <b>MS Qualifier</b> | <b>Unit</b> | <b>D</b> | <b>%Rec.</b> | <b>Limits</b> |
|---------------------------------|----------------------|-------------------------|--------------------|------------------|---------------------|-------------|----------|--------------|---------------|
| Diesel Range Organics [C10-C28] | 4.95                 | J                       | 79.4               | 73.37            |                     | mg/Kg       | ⊗        | 86           | 66 - 134      |

| <b>Surrogate</b>   | <b>MS</b>        | <b>MS</b>          |
|--------------------|------------------|--------------------|
|                    | <b>%Recovery</b> | <b>Qualifier</b>   |
| <i>o-Terphenyl</i> | 125              | Limits<br>60 - 140 |

**Lab Sample ID: 600-205741-6 MSD****Matrix: Solid****Analysis Batch: 293250****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| <b>Analyte</b>                  | <b>Sample Result</b> | <b>Sample Qualifier</b> | <b>Spike Added</b> | <b>MSD Result</b> | <b>MSD Qualifier</b> | <b>Unit</b> | <b>D</b> | <b>%Rec.</b> | <b>RPD</b> | <b>Limit</b> |    |
|---------------------------------|----------------------|-------------------------|--------------------|-------------------|----------------------|-------------|----------|--------------|------------|--------------|----|
| Diesel Range Organics [C10-C28] | 2.04                 | U                       | 79.3               | 91.09             |                      | mg/Kg       | ⊗        | 115          | 66 - 134   | 4            | 30 |

| <b>Surrogate</b>   | <b>MSD</b>       | <b>MSD</b>         |
|--------------------|------------------|--------------------|
|                    | <b>%Recovery</b> | <b>Qualifier</b>   |
| <i>o-Terphenyl</i> | 121              | Limits<br>60 - 140 |

**Lab Sample ID: 600-205741-6 MSD****Matrix: Solid****Analysis Batch: 295826****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| <b>Analyte</b>                  | <b>Sample Result</b> | <b>Sample Qualifier</b> | <b>Spike Added</b> | <b>MSD Result</b> | <b>MSD Qualifier</b> | <b>Unit</b> | <b>D</b> | <b>%Rec.</b> | <b>RPD</b> | <b>Limit</b> |    |
|---------------------------------|----------------------|-------------------------|--------------------|-------------------|----------------------|-------------|----------|--------------|------------|--------------|----|
| Diesel Range Organics [C10-C28] | 2.04                 | U                       | 79.3               | 70.62             |                      | mg/Kg       | ⊗        | 89           | 66 - 134   | 4            | 30 |

| <b>Surrogate</b>   | <b>MSD</b>       | <b>MSD</b>         |
|--------------------|------------------|--------------------|
|                    | <b>%Recovery</b> | <b>Qualifier</b>   |
| <i>o-Terphenyl</i> | 127              | Limits<br>60 - 140 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: 600-205741-6 MSD****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec.  | RPD      |
|---------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|--------|----------|
| Diesel Range Organics [C10-C28] | 4.95          | J                | 79.3        | 70.01      |               | mg/Kg | ⊗ | 82     | 66 - 134 |
| Surrogate                       | %Recovery     | MSD Qualifier    | MSD Limits  |            |               |       |   | Limits | Limit    |
| <i>o-Terphenyl</i>              | 117           |                  | 60 - 140    |            |               |       |   |        |          |

**Lab Sample ID: MB 600-296079/1-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 296079**

| 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 | D | 06/08/20 12:04 | 06/09/20 13:30 | 1       |
| Surrogate                       | %Recovery | MB Qualifier | MB Limits |      |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o-Terphenyl</i>              | 98        |              | 60 - 140  |      |       |   | 06/08/20 12:04 | 06/09/20 13:30 | 1       |

**Lab Sample ID: MB 600-296079/1-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 296079**

| 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 | D | 06/08/20 12:04 | 06/12/20 20:53 | 1       |
| C28-C36                         | 5.00      | U            | 8.30      | 5.00 | mg/Kg |   | 06/08/20 12:04 | 06/12/20 20:53 | 1       |
| Surrogate                       | %Recovery | MB Qualifier | MB Limits |      |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o-Terphenyl</i>              | 95        |              | 60 - 140  |      |       |   | 06/08/20 12:04 | 06/12/20 20:53 | 1       |

**Lab Sample ID: LCS 600-296079/2-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         |  | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|--|---------------|---------------|---------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] |  | 66.8          | 71.58         |               | mg/Kg |   | 107   | 66 - 134 |
| Surrogate                       |  | LCS %Recovery | LCS Qualifier | Limits        |       |   |       |          |
| <i>o-Terphenyl</i>              |  | 101           |               | 60 - 140      |       |   |       |          |

**Lab Sample ID: LCS 600-296079/2-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         |  | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|--|---------------|---------------|---------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] |  | 66.8          | 59.49         |               | mg/Kg |   | 89    | 66 - 134 |
| Surrogate                       |  | LCS %Recovery | LCS Qualifier | Limits        |       |   |       |          |
| <i>o-Terphenyl</i>              |  | 114           |               | 60 - 140      |       |   |       |          |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: LCSD 600-296079/3-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec.    | RPD |
|---------------------------------|----------------|----------------|----------------|-------|---|------|----------|-----|
| Diesel Range Organics [C10-C28] | 66.7           | 76.29          |                | mg/Kg |   | 114  | 66 - 134 | 6   |
| Surrogate                       | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      | Limits   | RPD |
| <i>o-Terphenyl</i>              | 107            |                | 60 - 140       |       |   |      |          |     |

**Lab Sample ID: LCSD 600-296079/3-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec.    | RPD |
|---------------------------------|----------------|----------------|----------------|-------|---|------|----------|-----|
| Diesel Range Organics [C10-C28] | 66.7           | 59.92          |                | mg/Kg |   | 90   | 66 - 134 | 1   |
| Surrogate                       | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      | Limits   | RPD |
| <i>o-Terphenyl</i>              | 111            |                | 60 - 140       |       |   |      |          |     |

**Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 600-296298/1-A****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: Method Blank****Prep Type: Soluble**

| Analyte  | MB Result | MB Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----------|-------|-------|---|----------|----------------|---------|
| Chloride | 0.534     | U            | 4.00      | 0.534 | mg/Kg |   |          | 06/10/20 09:17 | 1       |

**Lab Sample ID: LCS 600-296298/2-A****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec.    |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 200         | 181.7      |               | mg/Kg |   | 91   | 90 - 110 |

**Lab Sample ID: 600-205741-1 MS****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-1-S-0-6"-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec.    |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Chloride | 767           | F1               | 613         | 1517      | F1           | mg/Kg | ⊗ | 122  | 80 - 120 |

**Lab Sample ID: 600-205741-1 MSD****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-1-S-0-6"-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | RPD      |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 767           | F1               | 613         | 1565       | F1            | mg/Kg | ⊗ | 130  | 80 - 120 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 300.0 - Anions, Ion Chromatography (Continued)****Lab Sample ID: 600-205741-11 MS****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-------|
| Chloride | 734           | F1               | 2420        | 2316      | F1           | mg/Kg | ⊗ | 65   | 80 - 120     |     |       |

**Lab Sample ID: 600-205741-11 MSD****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Chloride | 734           | F1               | 2420        | 2401       | F1            | mg/Kg | ⊗ | 69   | 80 - 120     | 4   | 20    |

**Method: 2540B - Percent Moisture****Lab Sample ID: 600-205741-8 DU****Matrix: Solid****Analysis Batch: 295535****Client Sample ID: SB-2-S-1-2'-20200526****Prep Type: Total/NA**

| Analyte          | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit | D |  | RPD | Limit |
|------------------|---------------|------------------|--|-----------|--------------|------|---|--|-----|-------|
| Percent Moisture | 10.9          |                  |  | 10.5      |              | %    |   |  | 4   | 20    |
| Percent Solids   | 89.1          |                  |  | 89.5      |              | %    |   |  | 0.4 | 20    |

**Lab Sample ID: 600-205741-11 DU****Matrix: Solid****Analysis Batch: 295535****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Total/NA**

| Analyte          | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit | D |  | RPD | Limit |
|------------------|---------------|------------------|--|-----------|--------------|------|---|--|-----|-------|
| Percent Moisture | 17.5          |                  |  | 16.9      |              | %    |   |  | 4   | 20    |
| Percent Solids   | 82.5          |                  |  | 83.1      |              | %    |   |  | 0.7 | 20    |

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**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

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

Prep: 5030C

| 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: 8015D - Gasoline Range Organics (GRO) (GC)**

Prep: 5030C

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

**Method: 8015D - 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 |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Leach: DI Leach

| Analyte  | MQL  | MDL   | Units |
|----------|------|-------|-------|
| Chloride | 4.00 | 0.534 | mg/Kg |

**General Chemistry**

| Analyte          | MQL | MDL | Units |
|------------------|-----|-----|-------|
| Percent Moisture | 1.0 | 1.0 | %     |
| Percent Solids   | 1.0 | 1.0 | %     |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC/MS VOA****Prep Batch: 295295**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-8  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-10 | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-11 | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-12 | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |

**Analysis Batch: 295568**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-2      | SB-1-S-1-2'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-3      | SB-1-S-3-4'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-5      | SB-1-S-7-8'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-6      | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-7      | SB-2-S-0-6"-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-8      | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-9      | SB-2-S-3-4'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-10     | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-11     | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-12     | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8260C  | 295295     |
| MB 600-295568/6   | Method Blank           | Total/NA  | Solid  | 8260C  |            |
| LCS 600-295568/3  | Lab Control Sample     | Total/NA  | Solid  | 8260C  |            |
| LCSD 600-295568/4 | Lab Control Sample Dup | Total/NA  | Solid  | 8260C  |            |

**Analysis Batch: 295613**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-1      | SB-1-S-0-6"-20200526   | Total/NA  | Solid  | 8260C  | 295651     |
| 600-205741-4      | SB-1-S-5-6'-20200526   | Total/NA  | Solid  | 8260C  | 295651     |
| MB 600-295613/6   | Method Blank           | Total/NA  | Solid  | 8260C  |            |
| LCS 600-295613/3  | Lab Control Sample     | Total/NA  | Solid  | 8260C  |            |
| LCSD 600-295613/4 | Lab Control Sample Dup | Total/NA  | Solid  | 8260C  |            |

**Prep Batch: 295651**

| Lab Sample ID | Client Sample ID     | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-4  | SB-1-S-5-6'-20200526 | Total/NA  | Solid  | 5030C  |            |

**GC VOA****Prep Batch: 295090**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-4  | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC VOA (Continued)****Prep Batch: 295090 (Continued)**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-8        | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-9        | SB-2-S-3-4'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-10       | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 5030C  |            |
| MB 600-295090/3-A   | Method Blank           | Total/NA  | Solid  | 5030C  |            |
| LCS 600-295090/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5030C  |            |
| LCSD 600-295090/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5030C  |            |

**Analysis Batch: 295416**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-1        | SB-1-S-0-6"-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-2        | SB-1-S-1-2'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-3        | SB-1-S-3-4'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-4        | SB-1-S-5-6'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-5        | SB-1-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-6        | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-7        | SB-2-S-0-6"-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-8        | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| MB 600-295090/3-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 295090     |
| LCS 600-295090/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 295090     |
| LCSD 600-295090/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 295090     |

**Analysis Batch: 295498**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-10 | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-11 | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-12 | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295090     |

**GC Semi VOA****Analysis Batch: 293250**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-2 - DL  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC Semi VOA****Prep Batch: 295786**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-2 - DL  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 3546   |            |
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 3546   |            |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 3546   |            |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |

**Analysis Batch: 295826**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |

**Prep Batch: 296079**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 3546   |            |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 3546   |            |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 3546   |            |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 3546   |            |

**Analysis Batch: 296178**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 296079     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 296079     |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 296079     |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 296079     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 296079     |

**Analysis Batch: 296478**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-4  | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-8  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC Semi VOA (Continued)****Analysis Batch: 296478 (Continued)**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-10       | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 296079     |
| MB 600-295786/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 295786     |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 296079     |
| LCS 600-295786/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 296079     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 296079     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |

**HPLC/IC****Analysis Batch: 296246**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-12      | SB-2-S-9-10'-20200526 | Soluble   | Solid  | 300.0  | 296298     |
| MB 600-296298/1-A  | Method Blank          | Soluble   | Solid  | 300.0  | 296298     |
| LCS 600-296298/2-A | Lab Control Sample    | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-1 MS    | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-1 MSD   | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11 MS   | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11 MSD  | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |

**Leach Batch: 296298**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|-----------------------|-----------|--------|----------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-12      | SB-2-S-9-10'-20200526 | Soluble   | Solid  | DI Leach |            |
| MB 600-296298/1-A  | Method Blank          | Soluble   | Solid  | DI Leach |            |
| LCS 600-296298/2-A | Lab Control Sample    | Soluble   | Solid  | DI Leach |            |
| 600-205741-1 MS    | SB-1-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**HPLC/IC (Continued)****Leach Batch: 296298 (Continued)**

| Lab Sample ID     | Client Sample ID     | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|----------------------|-----------|--------|----------|------------|
| 600-205741-1 MSD  | SB-1-S-0-6"-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-11 MS  | SB-2-S-7-8'-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-11 MSD | SB-2-S-7-8'-20200526 | Soluble   | Solid  | DI Leach |            |

**General Chemistry****Analysis Batch: 295535**

| Lab Sample ID    | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1     | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-2     | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-3     | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-4     | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-5     | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-6     | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 2540B  |            |
| 600-205741-7     | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-8     | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-9     | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-10    | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-11    | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-12    | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 2540B  |            |
| 600-205741-8 DU  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-11 DU | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-0-6"-20200526**  
**Date Collected: 05/26/20 11:31**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-1**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295651       | 06/02/20 09:58       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295613       | 06/02/20 10:39       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-0-6"-20200526**  
**Date Collected: 05/26/20 11:31**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-1**  
**Matrix: Solid**  
**Percent Solids: 81.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 14:42       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 13:50       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 13:22       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 17:06       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-1-2'-20200526**  
**Date Collected: 05/26/20 11:40**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-2**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 18:01       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-1-2'-20200526**  
**Date Collected: 05/26/20 11:40**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-2**  
**Matrix: Solid**  
**Percent Solids: 97.1**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 15:07       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         | DL  |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        | DL  | 2               | 293250       | 06/04/20 20:15       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 2               | 296478       | 06/12/20 13:56       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:07       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-3-4'-20200526**  
**Date Collected: 05/26/20 11:45**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-3**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 18:24       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-3-4'-20200526**  
**Date Collected: 05/26/20 11:45**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-3**  
**Matrix: Solid**  
**Percent Solids: 89.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 15:57       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 15:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 14:30       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:27       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-5-6'-20200526**  
**Date Collected: 05/26/20 11:50**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-4**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295651       | 06/02/20 09:58       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295613       | 06/02/20 11:02       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-5-6'-20200526**  
**Date Collected: 05/26/20 11:50**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-4**  
**Matrix: Solid**  
**Percent Solids: 81.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 16:21       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 15:35       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 15:37       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:48       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Matrix: Solid

Date Collected: 05/26/20 11:55

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:10       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Matrix: Solid

Date Collected: 05/26/20 11:55

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 16:46       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 16:10       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 16:12       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 19:08       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Matrix: Solid

Date Collected: 05/26/20 12:00

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:32       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Matrix: Solid

Date Collected: 05/26/20 12:00

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:10       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 12:06       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 16:47       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 19:28       | W1N     | TAL HOU |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-0-6"-20200526****Lab Sample ID: 600-205741-7**

Matrix: Solid

Date Collected: 05/26/20 12:20

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:55       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-0-6"-20200526****Lab Sample ID: 600-205741-7**

Matrix: Solid

Date Collected: 05/26/20 12:20

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:35       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 17:21       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 18:33       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 20:30       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-1-2'-20200526****Lab Sample ID: 600-205741-8**

Matrix: Solid

Date Collected: 05/26/20 12:25

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 20:18       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-1-2'-20200526****Lab Sample ID: 600-205741-8**

Matrix: Solid

Date Collected: 05/26/20 12:25

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:59       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 17:56       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 19:08       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 20:50       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-3-4'-20200526**  
**Date Collected: 05/26/20 12:30**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-9**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 20:40       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-3-4'-20200526**  
**Date Collected: 05/26/20 12:30**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-9**  
**Matrix: Solid**  
**Percent Solids: 79.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 08:13       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 18:30       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 19:43       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:10       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-5-6'-20200526**  
**Date Collected: 05/26/20 12:35**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-10**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:03       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-5-6'-20200526**  
**Date Collected: 05/26/20 12:35**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-10**  
**Matrix: Solid**  
**Percent Solids: 81.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 08:37       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 19:06       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 20:18       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:31       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:26       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 82.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 09:01       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296178       | 06/09/20 15:15       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 23:10       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:51       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:48       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 82.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 09:26       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296178       | 06/09/20 15:51       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 23:44       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 10              | 296246       | 06/10/20 22:52       | W1N     | TAL HOU |

**Laboratory References:**

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

Eurofins TestAmerica, Houston

## Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

### 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   |
| 8015D           | 3546        | Solid  | C28-C36          |

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Eurofins TestAmerica, Houston

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

**Chain of Custody Record**

Environment Testing  
America



# Midland

|  |   |   |
|--|---|---|
| <b>Client Information</b>  | Sampler: <b>Jasmin Steinmann</b>          | Lab PM: <b>Kudchadkar, Sachin G</b>                 |
| Client Contact:<br>Sarah Johnson   | Phone: <b>(919) 851-8792</b>              | E-Mail: <b>sachin.kudchadkar@testamericainc.com</b> |
| Company:<br><b>ARCADIS U.S., Inc.</b>  | Due Date Requested: <b>✓</b>              |   |
| Address:<br>1004 North Big Spring Suite 121<br>City:<br>Midland                    | TAT Requested (days):<br><b>Stand ard</b> | PO #:   |
| State, Zip:<br>TX, 79701   | Phone:<br>432-227-0266(Tel)               | WO #:   |
| Email:<br><a href="mailto:sarah.johnson@arcadis.com">sarah.johnson@arcadis.com</a> | Project #:<br>60012357                    | SSO#/#:   |
| Project Name:<br>Chevron Onsurez #2  | Site: <b>Onsurez #2</b>                   |   |

**Analysis Requested**

| Sample Identification | Sample Date | Sample Time | Sample Type<br>(C=comp,<br>G=grab) | Matrix<br>(W=water,<br>S=solid,<br>O=soil,<br>T=tissue, A=air) | Preservation Code | Total Number of Contingencies |   |   |   |   |   |   |   |   |   |   |   | Special Instructions/Note:                  | Preservation Codes: |
|-----------------------|-------------|-------------|------------------------------------|--|-------------------|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------------------|
|                       |             |             |                                    |  |                   | 2                             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |                     |
| SB-1-S-0-6"-20200526  | 5/26/20     | 1131        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 600-205741 Chain of Custody                 |                     |
| SB-1-S-1-2"-20200526  | 5/26/20     | 1140        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Return To Client                            |                     |
| SB-1-S-3-4"-20200526  | 5/26/20     | 1145        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Disposal By Lab                             |                     |
| SB-1-S-5-6"-20200526  | 5/26/20     | 1150        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Archive For Months                          |                     |
| SB-1-S-7-8"-20200526  | 5/26/20     | 1155        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | In quotations: <b>Letter S, all air</b>     |                     |
| SB-1-S-9-10"-20200526 | 5/26/20     | 1200        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Method of Shipment:                         |                     |
| SB-2-S-0-6"-20200526  | 5/26/20     | 1220        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Date/Time                                   |                     |
| SB-2-S-1-2"-20200526  | 5/26/20     | 1225        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Date/Time                                   |                     |
| SB-2-S-3-4"-20200526  | 5/26/20     | 1230        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Date/Time                                   |                     |
| SB-2-S-5-6"-20200526  | 5/26/20     | 1235        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Date/Time                                   |                     |
| SB-Q-S-7-8"-20200526  | 5/26/20     | 1240        | G                                  | S  |                   | ✓                             | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Cooler Temperature(s) °C, and Other Remarks |                     |

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by

Reinquished by *[Signature]*

Custody Seals intact  Custody Seal No:  Yes  No

Ver. 01.16.2019

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 eurofins Environment Testing America

Environmental Testing  
America

Chain of Custody Record

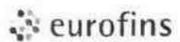
Eurofins TestAmerica, Houston

6310 Rothway Street  
Houston, TX 77040

3310 Rothway Street  
Houston, TX 77040  
Phone (713) 690-4444 Fax (713) 690-5646

**Chain of Custody**

|                                 |  |  |                     |   |   |
|---------------------------------|--|--|---------------------|---|---|
| Client Information              |  | Sampler Justin Steinmann                           |                     | Lab PM Kudchadkar, Sachin G                 | COC No 600-77164-207101   |
| Client Contact<br>Sarah Johnson |  | Phone 6019 851 8792                                |                     | E-Mail sachin.kudchadkar@testamericainc.com | Page 2 of 2   |
| Address ARCADIS U.S., Inc.      |  | Due Date Requested:<br><br>Std                     |                     | Analysis Requested                          |   |
|                                 |  | TAT Requested (days):<br><br>W/O #:                |                     |   | Preservation Codes:<br><br>A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ics J - DI Water K - EDTA L - EDA Other: |
|                                 |  | PO #:  |                     |   | M - Hexane N - None O - AsNaO2 P - NaO4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)                       |
|                                 |  | Project # 60012357                                 |                     |   | Test Number or Control Material:  |
|                                 |  | SSON#  |                     |   | Special Instructions/Note:  |
|                                 |  | Sample Identification<br><br>SB-2-S-9-10'-20200826 | Sample Date 5/26/20 | Sample Time 1245                            | Sample Type (C=Comp, G=grab) G  |
|                                 |  |  | Preservation Code   |   | Matrix (vialware, S-scold, Orwasteoil, Or tissue, air)  |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
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|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
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|                                 |  |  |                     |   | 8260C - BETX Only   |
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|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
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|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
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|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |
|                                 |  |  |                     |   | 2540C - moisture  |
|                                 |  |  |                     |   | 300C - Chloride   |
|                                 |  |  |                     |   | 8260C - BETX Only   |
|                                 |  |  |                     |   | 8015D - DR0 / DR0   |

Loc: 600  
205741Environment Testing  
TestAmerica

Eurofins TestAmerica Houston

**Sample Receipt Checklist**

20 MAY 27 9:47

JOB NUMBER: \_\_\_\_\_

Date/Time Received: \_\_\_\_\_

UNPACKED BY: \_\_\_\_\_

CLIENT: \_\_\_\_\_

CARRIER/DRIVER: \_\_\_\_\_

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) |
|-----------|------------|------------|--------------------|----------|----------|---------------------|
| 8726      | Y / N      | Y / N      | 1.9                | 678      | -0.1     | 1.8                 |
|           | 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  NOLABORATORY PRESERVATION OF SAMPLES REQUIRED:  NO  YESBase samples are >pH 12:  YES  NO Acid preserved are <pH 2:  YES  NOTX1005 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# 1001743 |

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-205741-1

**Login Number: 205741****List Source: Eurofins TestAmerica, Houston****List Number: 1****Creator: Rubio, Yuri**

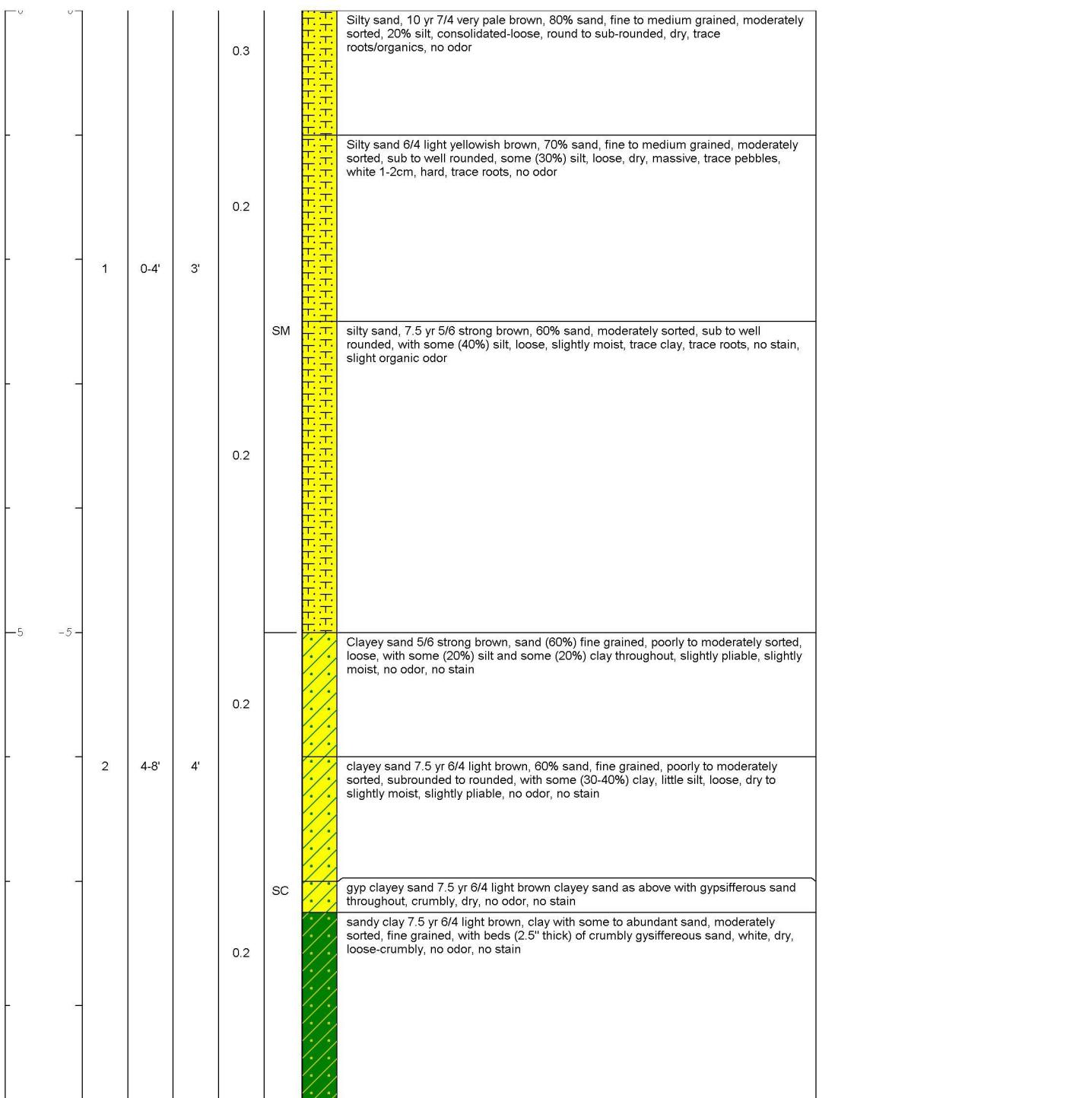
| <b>Question</b>  | <b>Answer</b> | <b>Comment</b>                              |
|--|---------------|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A           | Lab does not accept radioactive samples.    |
| The cooler's custody seal, if present, is intact.                                | 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   |
| 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. |

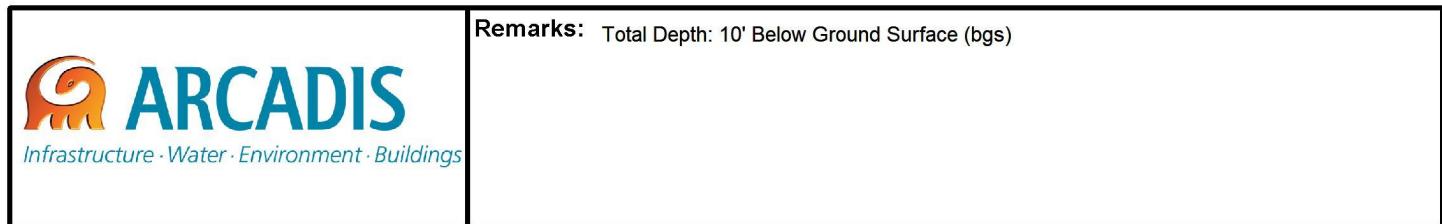
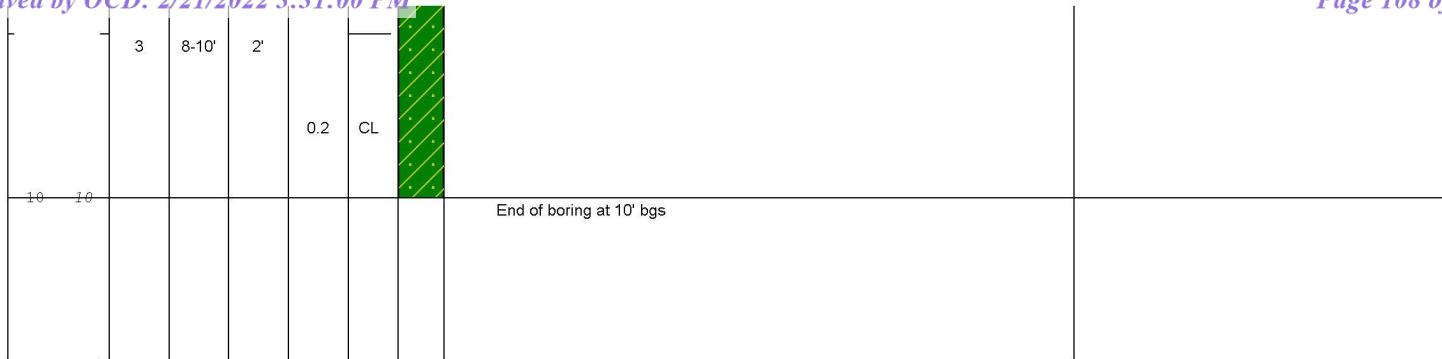
## APPENDIX F

### 2020 Soil Boring Logs

|                    |             |                    |     |                 |               |
|--------------------|-------------|--------------------|-----|-----------------|---------------|
| Date Start/Finish: | 5/26/2020   | Northing:          | -   | Well/Boring ID: | <b>SB-1</b>   |
| Drilling Company:  | HCI         | Easting:           | -   | Client:         | CEMC          |
| Driller's Name:    | Sam Baron   | Casing Elevation:  | -   | Location:       | Onsurez No. 2 |
| Drilling Method:   | Direct Push | Borehole Depth:    | 10' |                 |               |
| Sampling Method:   | core sleeve | Surface Elevation: | -   |                 |               |
| Rig Type:          | Geoprobe    | Descriptions By:   | JS  |                 |               |

| DEPTH | Sample Run Number | Sample/Int/Type | Recovery (feet) | PID | USCS Code | Geologic Column | Stratigraphic Description | Well/Boring Construction |
|-------|-------------------|-----------------|-----------------|-----|-----------|-----------------|---------------------------|--------------------------|
|       |                   |                 |                 |     |           |                 |                           |                          |





Project: 30051441  
Data File: SB-1

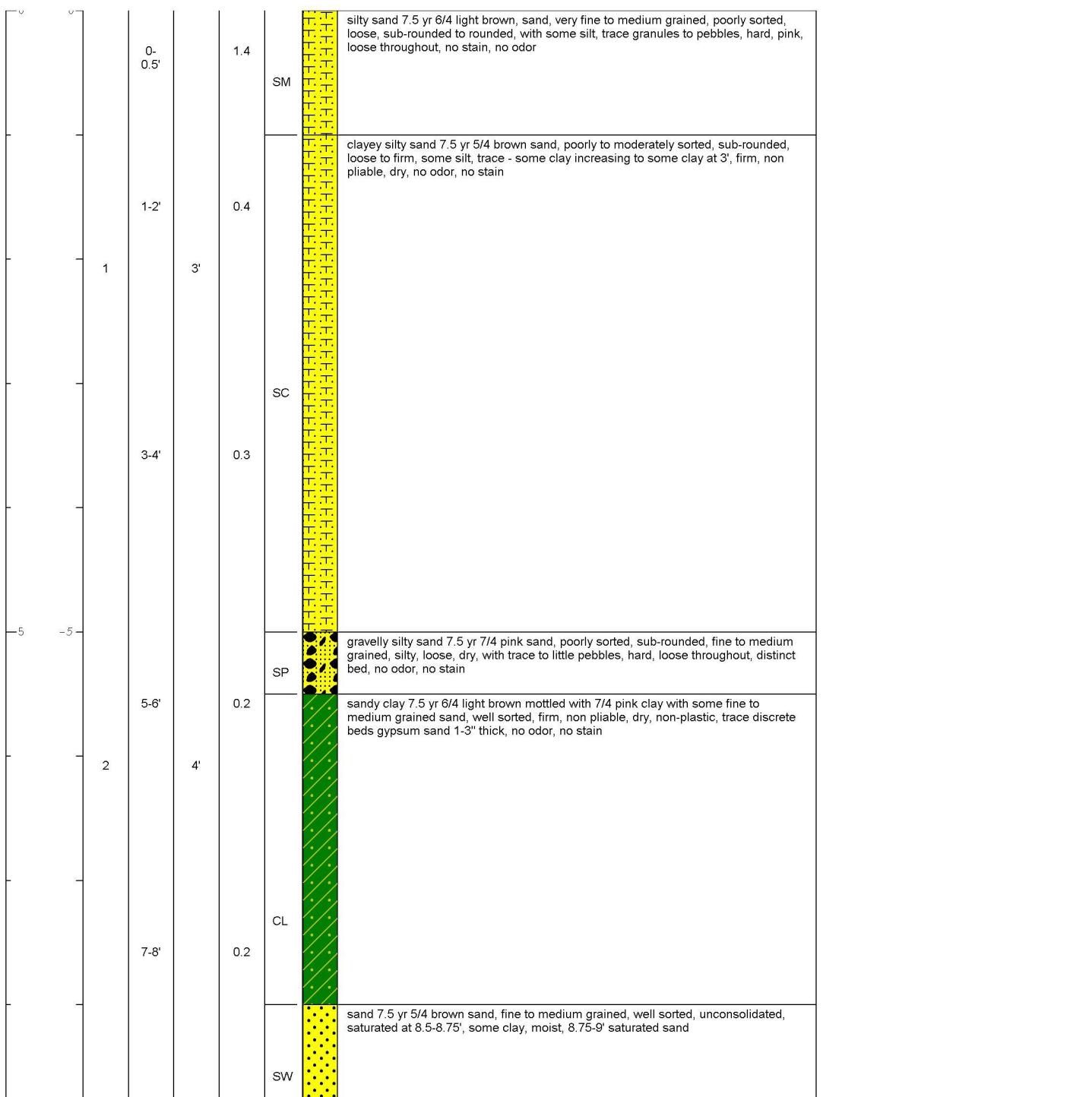
Template: LPTEMPLATE3.idfx  
Date: 7/1/2020

Created/Edited by: AD

Page: 2 of 2

|                    |             |                    |    |                 |             |
|--------------------|-------------|--------------------|----|-----------------|-------------|
| Date Start/Finish: | 5/26/2020   | Northing:          | -  | Well/Boring ID: | <b>SB-2</b> |
| Drilling Company:  | HCI         | Easting:           | -  | Client:         | Chevron     |
| Driller's Name:    | Sam Baron   | Casing Elevation:  | -  | Location:       | Onsurez #2  |
| Drilling Method:   | direct push | Borehole Depth:    | 10 |                 |             |
| Sampling Method:   | core barrel | Surface Elevation: | -  |                 |             |
| Rig Type:          | Geoprobe    | Descriptions By:   | JS |                 |             |

| DEPTH | Sample Run Number | Sample/Int/Type | Recovery (feet) | PID | USCS Code | Geologic Column | Stratigraphic Description | Well/Boring Construction |
|-------|-------------------|-----------------|-----------------|-----|-----------|-----------------|---------------------------|--------------------------|
|       |                   |                 |                 |     |           |                 |                           |                          |



|    |     |    |     |    |   |
|----|-----|----|-----|----|---|
|    | 3   | 2' | 0.2 | SC | <br>clayey sand 7.5 yr 4/4 brown sand, fine grained, well sorted, firm, moderately moist, some clay, slightly pliable, non-plastic, no odor, no stain |
| 10 | -10 |    |     |    | End of boring at 10' bgs  |

|  |  |
|--|--|
|  <b>ARCADIS</b><br>Infrastructure · Water · Environment · Buildings | <b>Remarks:</b> Below Ground Surface (bgs) |
|--|--|

Project: 30051441  
Data File: SB-2

Template: LPTEMPLATE3.ldfx  
Date: 7/1/2020

Created/Edited by: AD

Page: 2 of 2

## APPENDIX G

### 2019 Groundwater Analytical Reports



Environment Testing  
TestAmerica



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-185227-1  
Client Project/Site: E Loving Field

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

Attn: Mr. Brett Krehbiel

Sachin Kudchadkar

Authorized for release by:  
5/22/2019 2:47:05 PM  
Sachin Kudchadkar, Senior Project Manager  
(713)690-4444  
sachin.kudchadkar@testamericainc.com

### LINKS

Review your project  
results through

**Total Access**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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: E Loving Field

Laboratory Job ID: 600-185227-1

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## Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

| Method         | Method Description                              | Protocol | Laboratory |
|----------------|---|----------|------------|
| 8260B          | Volatile Organic Compounds (GC/MS)              | SW846    | TAL HOU    |
| 8015_M         | Total Petroleum Hydrocarbon (GC)                | SW846    | TAL HOU    |
| 300.0          | Anions, Ion Chromatography                      | MCAWW    | TAL HOU    |
| SM 2540C       | Solids, Total Dissolved (TDS)                   | SM       | TAL HOU    |
| 5030B          | Purge and Trap                                  | SW846    | TAL HOU    |
| TX_1005_W_Prep | Extraction - Texas Total petroleum Hyrdocarbons | TCEQ     | TAL HOU    |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

TCEQ = Texas Commission of Environmental Quality

**Laboratory References:**

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

Eurofins TestAmerica, Houston

**Sample Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Assess ID |
|---------------|------------------|--------|----------------|----------------|-----------|
| 600-185227-1  | C04216-POD-2     | Water  | 05/07/19 10:05 | 05/10/19 09:33 |           |
| 600-185227-2  | C04216-POD-3     | Water  | 05/07/19 10:56 | 05/10/19 09:33 |           |
| 600-185227-3  | C04216-POD-1     | Water  | 05/07/19 11:47 | 05/10/19 09:33 |           |
| 600-185227-4  | C04216-POD-4     | Water  | 05/07/19 12:57 | 05/10/19 09:33 |           |
| 600-185227-5  | FB-1             | Water  | 05/07/19 13:00 | 05/10/19 09:33 |           |
| 600-185227-6  | DUP-1            | Water  | 05/07/19 00:00 | 05/10/19 09:33 |           |

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Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: C04216-POD-2****Lab Sample ID: 600-185227-1**

Matrix: Water

Date Collected: 05/07/19 10:05  
Date Received: 05/10/19 09:33

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 14:42 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 14:42 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 14:42 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 14:42 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 50 - 134 |          | 05/14/19 14:42 | 1       |
| Dibromofluoromethane         | 99        |           | 62 - 130 |          | 05/14/19 14:42 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 70 - 130 |          | 05/14/19 14:42 | 1       |
| 4-Bromofluorobenzene         | 110       |           | 67 - 139 |          | 05/14/19 14:42 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte             | Result    | Qualifier | MQL (Adj) | SDL            | Unit           | D       | Prepared | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|-----------|----------------|----------------|---------|----------|----------------|---------|
| C6-C12              | 0.711     | U         | 1.71      | 0.711          | mg/L           |         |          | 05/17/19 10:37 | 1       |
| Over C12-C28        | 0.823     | U         | 1.71      | 0.823          | mg/L           |         |          | 05/17/19 10:37 | 1       |
| Over C28-C35        | 0.823     | U         | 1.71      | 0.823          | mg/L           |         |          | 05/17/19 10:37 | 1       |
| Surrogate           | %Recovery | Qualifier | Limits    | Prepared       | Analyzed       | Dil Fac |          |                |         |
| <i>o</i> -Terphenyl | 88        |           | 70 - 130  | 05/17/19 10:37 | 05/17/19 15:08 | 1       |          |                |         |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 5090   |           | 80.0      | 10.7 | mg/L |   |          | 05/21/19 20:09 | 200     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 6270   |           | 100       | 100 | mg/L |   |          | 05/14/19 11:48 | 1       |

**Client Sample ID: C04216-POD-3****Lab Sample ID: 600-185227-2**

Matrix: Water

Date Collected: 05/07/19 10:56  
Date Received: 05/10/19 09:33

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 15:06 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 15:06 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 15:06 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 15:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 50 - 134 |          | 05/14/19 15:06 | 1       |
| Dibromofluoromethane         | 102       |           | 62 - 130 |          | 05/14/19 15:06 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 70 - 130 |          | 05/14/19 15:06 | 1       |
| 4-Bromofluorobenzene         | 110       |           | 67 - 139 |          | 05/14/19 15:06 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12       | 0.718  | U         | 1.73      | 0.718 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C12-C28 | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C28-C35 | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: C04216-POD-3****Lab Sample ID: 600-185227-2**

Matrix: Water

Date Collected: 05/07/19 10:56  
Date Received: 05/10/19 09:33

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o-Terphenyl</i> | 100       |           | 70 - 130 | 05/17/19 10:37 | 05/17/19 15:43 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 1390   |           | 40.0      | 5.34 | mg/L | D |          | 05/21/19 20:27 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 5090   |           | 40.0      | 40.0 | mg/L | D |          | 05/14/19 11:48 | 1       |

**Client Sample ID: C04216-POD-1****Lab Sample ID: 600-185227-3**

Matrix: Water

Date Collected: 05/07/19 11:47  
Date Received: 05/10/19 09:33

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 15:31 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 15:31 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 15:31 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 15:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 89        |           | 50 - 134 |          | 05/14/19 15:31 | 1       |
| Dibromofluoromethane         | 103       |           | 62 - 130 |          | 05/14/19 15:31 | 1       |
| Toluene-d8 (Surr)            | 110       |           | 70 - 130 |          | 05/14/19 15:31 | 1       |
| 4-Bromofluorobenzene         | 111       |           | 67 - 139 |          | 05/14/19 15:31 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12       | 0.718  | U         | 1.73      | 0.718 | mg/L | D |          | 05/17/19 10:37 | 1       |
| Over C12-C28 | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C28-C35 | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o-Terphenyl</i> | 94        |           | 70 - 130 | 05/17/19 10:37 | 05/17/19 16:18 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 4420   |           | 80.0      | 10.7 | mg/L | D |          | 05/21/19 20:45 | 200     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 5340   |           | 100       | 100 | mg/L | D |          | 05/14/19 11:48 | 1       |

**Client Sample ID: C04216-POD-4****Lab Sample ID: 600-185227-4**

Matrix: Water

Date Collected: 05/07/19 12:57  
Date Received: 05/10/19 09:33

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

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene      | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 15:57 | 1       |
| Ethylbenzene | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 15:57 | 1       |
| Toluene      | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 15:57 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: C04216-POD-4**

Date Collected: 05/07/19 12:57  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-4**

Matrix: Water

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

| Analyte                      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Xylenes, Total               | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 15:57 | 1       |
| <b>Surrogate</b>             |        |           |           |       |      |   |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 92     |           | 50 - 134  |       |      |   | Prepared | 05/14/19 15:57 | 1       |
| Dibromofluoromethane         | 100    |           | 62 - 130  |       |      |   |          | 05/14/19 15:57 | 1       |
| Toluene-d8 (Surr)            | 111    |           | 70 - 130  |       |      |   |          | 05/14/19 15:57 | 1       |
| 4-Bromofluorobenzene         | 112    |           | 67 - 139  |       |      |   |          | 05/14/19 15:57 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12           | 0.720  | U         | 1.73      | 0.720 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C12-C28     | 0.832  | U         | 1.73      | 0.832 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C28-C35     | 0.832  | U         | 1.73      | 0.832 | mg/L |   |          | 05/17/19 10:37 | 1       |
| <b>Surrogate</b> |        |           |           |       |      |   |          |                |         |
| o-Terphenyl      | 98     |           | 70 - 130  |       |      |   | Prepared | 05/17/19 10:37 | 1       |
|                  |        |           |           |       |      |   |          | 05/17/19 16:53 |         |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 3690   |           | 40.0      | 5.34 | mg/L |   |          | 05/21/19 21:03 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 4790   |           | 100       | 100 | mg/L |   |          | 05/14/19 11:48 | 1       |

**Client Sample ID: FB-1**

Date Collected: 05/07/19 13:00  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-5**

Matrix: Water

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

| Analyte                      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene                      | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 16:22 | 1       |
| Ethylbenzene                 | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 16:22 | 1       |
| Toluene                      | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 16:22 | 1       |
| Xylenes, Total               | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 16:22 | 1       |
| <b>Surrogate</b>             |        |           |           |       |      |   |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 91     |           | 50 - 134  |       |      |   | Prepared | 05/14/19 16:22 | 1       |
| Dibromofluoromethane         | 99     |           | 62 - 130  |       |      |   |          | 05/14/19 16:22 | 1       |
| Toluene-d8 (Surr)            | 109    |           | 70 - 130  |       |      |   |          | 05/14/19 16:22 | 1       |
| 4-Bromofluorobenzene         | 107    |           | 67 - 139  |       |      |   |          | 05/14/19 16:22 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12           | 0.718  | U         | 1.73      | 0.718 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C12-C28     | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C28-C35     | 0.830  | U         | 1.73      | 0.830 | mg/L |   |          | 05/17/19 10:37 | 1       |
| <b>Surrogate</b> |        |           |           |       |      |   |          |                |         |
| o-Terphenyl      | 98     |           | 70 - 130  |       |      |   | Prepared | 05/17/19 10:37 | 1       |
|                  |        |           |           |       |      |   |          | 05/17/19 17:28 |         |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: FB-1**

Date Collected: 05/07/19 13:00  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-5**

Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 5.28   |           | 0.400     | 0.0534 | mg/L |   |          | 05/21/19 21:21 | 1       |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 119    |           | 10.0      | 10.0 | mg/L |   |          | 05/14/19 11:48 | 1       |

**Client Sample ID: DUP-1**

Date Collected: 05/07/19 00:00  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-6**

Matrix: Water

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 16:47 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 16:47 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 16:47 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 16:47 | 1       |

**Surrogate**

|                              | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 50 - 134 |          | 05/14/19 16:47 | 1       |
| Dibromofluoromethane         | 105       |           | 62 - 130 |          | 05/14/19 16:47 | 1       |
| Toluene-d8 (Surr)            | 109       |           | 70 - 130 |          | 05/14/19 16:47 | 1       |
| 4-Bromofluorobenzene         | 110       |           | 67 - 139 |          | 05/14/19 16:47 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12       | 0.713  | U         | 1.72      | 0.713 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C12-C28 | 0.825  | U         | 1.72      | 0.825 | mg/L |   |          | 05/17/19 10:37 | 1       |
| Over C28-C35 | 0.825  | U         | 1.72      | 0.825 | mg/L |   |          | 05/17/19 10:37 | 1       |

**Surrogate**

|             | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------|----------------|---------|
| o-Terphenyl | 99        |           | 70 - 130 |          | 05/17/19 10:37 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 2750   |           | 80.0      | 10.7 | mg/L |   |          | 05/21/19 21:39 | 200     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 5960   |           | 100       | 100 | mg/L |   |          | 05/14/19 11:48 | 1       |

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

### Qualifiers

#### GC/MS VOA

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

#### GC Semi VOA

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

#### HPLC/IC

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

#### General Chemistry

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

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

|                |   |
|----------------|---|
| □              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| 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)   |

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**Surrogate Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field

Job ID: 600-185227-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                  |                 |                 |
|---------------------|------------------------|--|------------------|-----------------|-----------------|
|                     |                        | DCA<br>(50-134)                                | DBFM<br>(62-130) | TOL<br>(70-130) | BFB<br>(67-139) |
| 600-185227-1        | C04216-POD-2           | 92   | 99               | 108             | 110             |
| 600-185227-2        | C04216-POD-3           | 93   | 102              | 108             | 110             |
| 600-185227-3        | C04216-POD-1           | 89   | 103              | 110             | 111             |
| 600-185227-4        | C04216-POD-4           | 92   | 100              | 111             | 112             |
| 600-185227-5        | FB-1                   | 91   | 99               | 109             | 107             |
| 600-185227-6        | DUP-1                  | 94   | 105              | 109             | 110             |
| LCS 600-264954/1010 | Lab Control Sample     | 89   | 105              | 115             | 113             |
| LCSD 600-264954/11  | Lab Control Sample Dup | 89   | 106              | 113             | 115             |
| MB 600-264954/13    | Method Blank           | 84   | 97               | 111             | 113             |

**Surrogate Legend**

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |
|---------------------|------------------------|--|--|--|--|
|                     |                        | OTPH<br>(70-130)                               |  |  |  |
| 600-185227-1        | C04216-POD-2           | 88   |  |  |  |
| 600-185227-2        | C04216-POD-3           | 100  |  |  |  |
| 600-185227-3        | C04216-POD-1           | 94   |  |  |  |
| 600-185227-4        | C04216-POD-4           | 98   |  |  |  |
| 600-185227-5        | FB-1                   | 98   |  |  |  |
| 600-185227-6        | DUP-1                  | 99   |  |  |  |
| LCS 600-265328/2-A  | Lab Control Sample     | 96   |  |  |  |
| LCSD 600-265328/3-A | Lab Control Sample Dup | 93   |  |  |  |
| MB 600-265328/1-A   | Method Blank           | 93   |  |  |  |

**Surrogate Legend**

OTPH = o-Terphenyl

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Lab Sample ID: MB 600-264954/13****Matrix: Water****Analysis Batch: 264954**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB     |           | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
|                | Result | Qualifier |           |       |      |   |          |                |         |
| Benzene        | 0.176  | U         | 1.00      | 0.176 | ug/L |   |          | 05/14/19 13:03 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 05/14/19 13:03 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 05/14/19 13:03 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 05/14/19 13:03 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 84        |           | 50 - 134 |          | 05/14/19 13:03 | 1       |
| Dibromofluoromethane         | 97        |           | 62 - 130 |          | 05/14/19 13:03 | 1       |
| Toluene-d8 (Surr)            | 111       |           | 70 - 130 |          | 05/14/19 13:03 | 1       |
| 4-Bromofluorobenzene         | 113       |           | 67 - 139 |          | 05/14/19 13:03 | 1       |

**Lab Sample ID: LCS 600-264954/1010****Matrix: Water****Analysis Batch: 264954**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte        | Spike |  | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec.    | Limits |
|----------------|-------|--|------------|---------------|------|---|------|----------|--------|
|                | Added |  |            |               |      |   |      |          |        |
| Benzene        | 10.0  |  | 10.06      |               | ug/L |   | 101  | 70 - 130 |        |
| Ethylbenzene   | 10.0  |  | 10.19      |               | ug/L |   | 102  | 70 - 130 |        |
| Toluene        | 10.0  |  | 10.16      |               | ug/L |   | 102  | 70 - 130 |        |
| Xylenes, Total | 20.0  |  | 20.14      |               | ug/L |   | 101  | 70 - 130 |        |

| Surrogate                    | LCS       |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 89        |           | 50 - 134 |          | 05/14/19 13:03 | 1       |
| Dibromofluoromethane         | 105       |           | 62 - 130 |          | 05/14/19 13:03 | 1       |
| Toluene-d8 (Surr)            | 115       |           | 70 - 130 |          | 05/14/19 13:03 | 1       |
| 4-Bromofluorobenzene         | 113       |           | 67 - 139 |          | 05/14/19 13:03 | 1       |

**Lab Sample ID: LCSD 600-264954/11****Matrix: Water****Analysis Batch: 264954**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte        | Spike |  | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec.    | RPD | Limit |
|----------------|-------|--|-------------|----------------|------|---|------|----------|-----|-------|
|                | Added |  |             |                |      |   |      |          |     |       |
| Benzene        | 10.0  |  | 9.568       |                | ug/L |   | 96   | 70 - 130 | 5   | 20    |
| Ethylbenzene   | 10.0  |  | 9.585       |                | ug/L |   | 96   | 70 - 130 | 6   | 20    |
| Toluene        | 10.0  |  | 9.580       |                | ug/L |   | 96   | 70 - 130 | 6   | 20    |
| Xylenes, Total | 20.0  |  | 19.08       |                | ug/L |   | 95   | 70 - 130 | 5   | 20    |

| Surrogate                    | LCSD      |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 89        |           | 50 - 134 |          | 05/14/19 13:03 | 1       |
| Dibromofluoromethane         | 106       |           | 62 - 130 |          | 05/14/19 13:03 | 1       |
| Toluene-d8 (Surr)            | 113       |           | 70 - 130 |          | 05/14/19 13:03 | 1       |
| 4-Bromofluorobenzene         | 115       |           | 67 - 139 |          | 05/14/19 13:03 | 1       |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Lab Sample ID: MB 600-265328/1-A****Matrix: Water****Analysis Batch: 265287****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 265328**

| Analyte      | MB     | MB        | D | Prepared  | Analyzed | Dil Fac |
|--------------|--------|-----------|---|-----------|----------|---------|
|              | Result | Qualifier |   | MQL (Adj) | SDL      | Unit    |
| C6-C12       | 0.830  | U         |   | 2.00      | 0.830    | mg/L    |
| Over C12-C28 | 0.960  | U         |   | 2.00      | 0.960    | mg/L    |
| Over C28-C35 | 0.960  | U         |   | 2.00      | 0.960    | mg/L    |

| Surrogate          | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
|                    | %Recovery | Qualifier |          |                |                |         |
| <i>o-Terphenyl</i> | 93        |           | 70 - 130 | 05/17/19 10:37 | 05/17/19 16:18 | 1       |

**Lab Sample ID: LCS 600-265328/2-A****Matrix: Water****Analysis Batch: 265287****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 265328**

| Analyte      | Spike | LCS    | LCS       | D    | %Rec | Limits   | %Rec. |
|--------------|-------|--------|-----------|------|------|----------|-------|
|              | Added | Result | Qualifier |      |      |          |       |
| C6-C12       | 33.6  | 26.92  |           | mg/L | 80   | 75 - 125 |       |
| Over C12-C28 | 33.3  | 31.83  |           | mg/L | 95   | 75 - 125 |       |
| C6-C35       | 66.9  | 58.75  |           | mg/L | 88   | 75 - 125 |       |

| Surrogate          | LCS       | LCS       | Limits   | %Rec. | RPD | Limit |
|--------------------|-----------|-----------|----------|-------|-----|-------|
|                    | %Recovery | Qualifier |          |       |     |       |
| <i>o-Terphenyl</i> | 96        |           | 70 - 130 |       |     |       |

**Lab Sample ID: LCSD 600-265328/3-A****Matrix: Water****Analysis Batch: 265287****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 265328**

| Analyte      | Spike | LCSD   | LCSD      | D    | %Rec | Limits   | RPD | Limit |
|--------------|-------|--------|-----------|------|------|----------|-----|-------|
|              | Added | Result | Qualifier |      |      |          |     |       |
| C6-C12       | 33.6  | 26.57  |           | mg/L | 79   | 75 - 125 | 1   | 20    |
| Over C12-C28 | 33.3  | 32.59  |           | mg/L | 98   | 75 - 125 | 2   | 20    |
| C6-C35       | 66.9  | 59.16  |           | mg/L | 88   | 75 - 125 | 1   | 20    |

| Surrogate          | LCSD      | LCSD      | Limits   | %Rec. | RPD | Limit |
|--------------------|-----------|-----------|----------|-------|-----|-------|
|                    | %Recovery | Qualifier |          |       |     |       |
| <i>o-Terphenyl</i> | 93        |           | 70 - 130 |       |     |       |

**Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 600-265564/4****Matrix: Water****Analysis Batch: 265564****Client Sample ID: Method Blank****Prep Type: Total/NA**

| Analyte  | MB     | MB        | D | Prepared  | Analyzed | Dil Fac |
|----------|--------|-----------|---|-----------|----------|---------|
|          | Result | Qualifier |   | MQL (Adj) | SDL      | Unit    |
| Chloride | 0.0534 | U         |   | 0.400     | 0.0534   | mg/L    |

**Lab Sample ID: LCS 600-265564/5****Matrix: Water****Analysis Batch: 265564****Client Sample ID: Lab Control Sample****Prep Type: Total/NA**

| Analyte  | Spike | LCS    | LCS       | D    | %Rec | Limits   |
|----------|-------|--------|-----------|------|------|----------|
|          | Added | Result | Qualifier |      |      |          |
| Chloride | 20.0  | 19.98  |           | mg/L | 100  | 90 - 110 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Method: SM 2540C - Solids, Total Dissolved (TDS)****Lab Sample ID: MB 600-264999/1****Matrix: Water****Analysis Batch: 264999**

| Analyte                | MB<br>Result | MB<br>Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------------|-----------------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10.0         | U               | 10.0      | 10.0 | mg/L |   |          | 05/14/19 11:48 | 1       |

**Lab Sample ID: LCS 600-264999/2****Matrix: Water****Analysis Batch: 264999**

| Analyte                | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec. | Limits   |
|------------------------|----------------|---------------|------------------|------|---|-------|----------|
| Total Dissolved Solids | 1800           | 1738          |                  | mg/L |   | 97    | 90 - 110 |

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

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

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**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field

Job ID: 600-185227-1

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

| Analyte        | MQL  | MDL   | Units |
|----------------|------|-------|-------|
| Benzene        | 1.00 | 0.176 | ug/L  |
| Ethylbenzene   | 1.00 | 0.212 | ug/L  |
| Toluene        | 1.00 | 0.198 | ug/L  |
| Xylenes, Total | 2.00 | 0.366 | ug/L  |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

Prep: TX\_1005\_W\_Prep

| Analyte      | MQL  | MDL   | Units |
|--------------|------|-------|-------|
| C6-C12       | 2.00 | 0.830 | mg/L  |
| Over C12-C28 | 2.00 | 0.960 | mg/L  |
| Over C28-C35 | 2.00 | 0.960 | mg/L  |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | MQL   | MDL    | Units |
|----------|-------|--------|-------|
| Chloride | 0.400 | 0.0534 | mg/L  |

**General Chemistry**

| Analyte                | MQL  | MDL  | Units |
|------------------------|------|------|-------|
| Total Dissolved Solids | 10.0 | 10.0 | mg/L  |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**GC/MS VOA****Analysis Batch: 264954**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-185227-1        | C04216-POD-2           | Total/NA  | Water  | 8260B  |            |
| 600-185227-2        | C04216-POD-3           | Total/NA  | Water  | 8260B  |            |
| 600-185227-3        | C04216-POD-1           | Total/NA  | Water  | 8260B  |            |
| 600-185227-4        | C04216-POD-4           | Total/NA  | Water  | 8260B  |            |
| 600-185227-5        | FB-1                   | Total/NA  | Water  | 8260B  |            |
| 600-185227-6        | DUP-1                  | Total/NA  | Water  | 8260B  |            |
| MB 600-264954/13    | Method Blank           | Total/NA  | Water  | 8260B  |            |
| LCS 600-264954/1010 | Lab Control Sample     | Total/NA  | Water  | 8260B  |            |
| LCSD 600-264954/11  | Lab Control Sample Dup | Total/NA  | Water  | 8260B  |            |

**GC Semi VOA****Analysis Batch: 265286**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 600-185227-1  | C04216-POD-2     | Total/NA  | Water  | 8015_M | 265328     |
| 600-185227-2  | C04216-POD-3     | Total/NA  | Water  | 8015_M | 265328     |
| 600-185227-3  | C04216-POD-1     | Total/NA  | Water  | 8015_M | 265328     |
| 600-185227-4  | C04216-POD-4     | Total/NA  | Water  | 8015_M | 265328     |
| 600-185227-5  | FB-1             | Total/NA  | Water  | 8015_M | 265328     |
| 600-185227-6  | DUP-1            | Total/NA  | Water  | 8015_M | 265328     |

**Analysis Batch: 265287**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 600-265328/1-A   | Method Blank           | Total/NA  | Water  | 8015_M | 265328     |
| LCS 600-265328/2-A  | Lab Control Sample     | Total/NA  | Water  | 8015_M | 265328     |
| LCSD 600-265328/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8015_M | 265328     |

**Prep Batch: 265328**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method             | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------------|------------|
| 600-185227-1        | C04216-POD-2           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-185227-2        | C04216-POD-3           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-185227-3        | C04216-POD-1           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-185227-4        | C04216-POD-4           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-185227-5        | FB-1                   | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-185227-6        | DUP-1                  | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| MB 600-265328/1-A   | Method Blank           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| LCS 600-265328/2-A  | Lab Control Sample     | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| LCSD 600-265328/3-A | Lab Control Sample Dup | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |

**HPLC/IC****Analysis Batch: 265564**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 600-185227-1  | C04216-POD-2     | Total/NA  | Water  | 300.0  |            |
| 600-185227-2  | C04216-POD-3     | Total/NA  | Water  | 300.0  |            |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**HPLC/IC (Continued)****Analysis Batch: 265564 (Continued)**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 600-185227-3     | C04216-POD-1       | Total/NA  | Water  | 300.0  |            |
| 600-185227-4     | C04216-POD-4       | Total/NA  | Water  | 300.0  |            |
| 600-185227-5     | FB-1               | Total/NA  | Water  | 300.0  |            |
| 600-185227-6     | DUP-1              | Total/NA  | Water  | 300.0  |            |
| MB 600-265564/4  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 600-265564/5 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

**General Chemistry****Analysis Batch: 264999**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 600-185227-1     | C04216-POD-2       | Total/NA  | Water  | SM 2540C |            |
| 600-185227-2     | C04216-POD-3       | Total/NA  | Water  | SM 2540C |            |
| 600-185227-3     | C04216-POD-1       | Total/NA  | Water  | SM 2540C |            |
| 600-185227-4     | C04216-POD-4       | Total/NA  | Water  | SM 2540C |            |
| 600-185227-5     | FB-1               | Total/NA  | Water  | SM 2540C |            |
| 600-185227-6     | DUP-1              | Total/NA  | Water  | SM 2540C |            |
| MB 600-264999/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 600-264999/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: C04216-POD-2**  
Date Collected: 05/07/19 10:05  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-1**  
Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 14:42       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 15:08       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 200             | 265564       | 05/21/19 20:09       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

**Client Sample ID: C04216-POD-3**  
Date Collected: 05/07/19 10:56  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-2**  
Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 15:06       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 15:43       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 265564       | 05/21/19 20:27       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

**Client Sample ID: C04216-POD-1**  
Date Collected: 05/07/19 11:47  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-3**  
Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 15:31       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 16:18       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 200             | 265564       | 05/21/19 20:45       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

**Client Sample ID: C04216-POD-4**  
Date Collected: 05/07/19 12:57  
Date Received: 05/10/19 09:33

**Lab Sample ID: 600-185227-4**  
Matrix: Water

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 15:57       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 16:53       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 265564       | 05/21/19 21:03       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

**Client Sample ID: FB-1****Lab Sample ID: 600-185227-5**

Date Collected: 05/07/19 13:00

Matrix: Water

Date Received: 05/10/19 09:33

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 16:22       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 17:28       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 1               | 265564       | 05/21/19 21:21       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

**Client Sample ID: DUP-1****Lab Sample ID: 600-185227-6**

Date Collected: 05/07/19 00:00

Matrix: Water

Date Received: 05/10/19 09:33

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 264954       | 05/14/19 16:47       | WS1     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 265328       | 05/17/19 10:37       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 265286       | 05/17/19 18:04       | PXS     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 200             | 265564       | 05/21/19 21:39       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 264999       | 05/14/19 11:48       | DTN     | TAL HOU |

**Laboratory References:**

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

Eurofins TestAmerica, Houston

## Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field

Job ID: 600-185227-1

### Laboratory: Eurofins TestAmerica, Houston

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

| Authority    | Program       | EPA Region | Identification Number | Expiration Date |
|--------------|---------------|------------|-----------------------|-----------------|
| Arkansas DEQ | State Program | 6          | 18-061-0              | 08-04-19        |
| Louisiana    | NELAP         | 6          | 01967                 | 06-30-19        |
| Oklahoma     | State Program | 6          | 2018-052              | 08-31-19        |
| Texas        | NELAP         | 6          | T104704223-18-23      | 10-31-19        |
| USDA         | Federal       |            | P330-18-00130         | 04-30-21        |

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Eurofins TestAmerica, Houston

**Chain of Custody Record**

Eurofins TestAmerica, Houston

6315 Rothwell Street  
Houston, TX 77040  
Phone (713) 690-4444 Fax (713) 690-5646

TestAmerica Houston

Sample Recd Loc: 600  
**185227**

JOB NUMBER: 337

Time Received:

19 MAY 10 9 4

UNPACKED BY: VR

## CLIENT:

Custody Seal Present:  YES  NO

**CARRIER/DRIVER:**

Number of Coolers Received: \_\_\_\_\_

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

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:**

YR 6/10/19

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-185227-1

**Login Number:** 185227**List Source:** Eurofins TestAmerica, Houston**List Number:** 1**Creator:** Crafton, Tommie S

| 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   | 1.4   |
| COC is present.  | True   |   |
| COC is filled out in ink and legible.  | True   |   |
| COC is filled out with all pertinent information.                                | True   |   |
| Is the Field Sampler's name present on COC?                                      | True   |   |
| There are no discrepancies between the containers received and the COC.          | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |   |
| Sample containers have legible labels.   | True   |   |
| Containers are not broken or leaking.  | True   |   |
| Sample collection date/times are provided.                                       | True   |   |
| Appropriate sample containers are used.  | True   |   |
| Sample bottles are completely filled.  | True   |   |
| Sample Preservation Verified.  | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |   |
| Multiphasic samples are not present.   | True   |   |
| Samples do not require splitting or compositing.                                 | True   |   |
| Residual Chlorine Checked.   | N/A    | Check done at department level as required. |



# Environment Testing TestAmerica



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-191578-1  
Client Project/Site: E Loving Field Onsurez #2

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

Attn: Mr. Brett Krehbiel

Authorized for release by:  
9/20/2019 11:47:56 AM  
Jasmine Turner, Project Management Assistant I  
(713)690-4444  
[jasmine.turner@testamericainc.com](mailto:jasmine.turner@testamericainc.com)

Designee for  
Sachin Kudchadkar, Senior Project Manager  
(713)690-4444  
[sachin.kudchadkar@testamericainc.com](mailto:sachin.kudchadkar@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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: E Loving Field Onsurez #2

Laboratory Job ID: 600-191578-1

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# Appendix A

## Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Eurofins TestAmerica, Houston job number 600-191578-1 and consists of:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
  - a. Items consistent with NELAC Chapter 5,
  - b. dilution factors,
  - c. preparation methods,
  - d. cleanup methods, and
  - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
  - a. Calculated recovery (%R), and
  - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
  - a. LCS spiking amounts,
  - b. Calculated %R for each analyte, and
  - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a. Samples associated with the MS/MSD clearly identified,
  - b. MS/MSD spiking amounts,
  - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d. Calculated %Rs and relative percent differences (RPDs), and
  - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
  - a. The amount of analyte measured in the duplicate,
  - b. The calculated RPD, and
  - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

**Release Statement:** I am responsible for the release of this laboratory data package. 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 in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

---

Jasmine Turner, for Sachin Kudchadkar

Name (printed)



9/20/2019

Date

---

Senior Project Manager

Official Title (printed)

# Laboratory Review Checklist: Reportable Data - Page 2 of 4

|                  |                                       |                        |              |
|------------------|---------------------------------------|------------------------|--------------|
| Laboratory Name: | Eurofins TestAmerica, Houston         | LRC Date:              | 9/20/2019    |
| Project Name:    | E Loving Field Onsurez #2             | Laboratory Job Number: | 600-191578-1 |
| Reviewer Name:   | Jasmine Turner, for Sachin Kudchadkar |                        |              |

| # <sup>1</sup> | A <sup>2</sup> | Description  | Yes | No | NA <sup>3</sup> | NR <sup>4</sup> | ER# <sup>5</sup> |
|----------------|----------------|--|-----|----|-----------------|-----------------|------------------|
| R1             | OI             | <b>Chain-of-custody (C-O-C)</b>  |     |    |                 |                 |                  |
|                |                | Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?  | X   |    |                 |                 |                  |
|                |                | Were all departures from standard conditions described in an exception report?   | X   |    |                 |                 |                  |
| R2             | OI             | <b>Sample and quality control (QC) identification</b>  |     |    |                 |                 |                  |
|                |                | Are all field sample ID numbers cross-referenced to the laboratory ID numbers?   | X   |    |                 |                 |                  |
|                |                | Are all laboratory ID numbers cross-referenced to the corresponding QC data?   | X   |    |                 |                 |                  |
| R3             | OI             | <b>Test reports</b>  |     |    |                 |                 |                  |
|                |                | Were all samples prepared and analyzed within holding times?   | X   |    |                 |                 |                  |
|                |                | Other than those results < MQL, were all other raw values bracketed by calibration standards?  | X   |    |                 |                 |                  |
|                |                | Were calculations checked by a peer or supervisor?   | X   |    |                 |                 |                  |
|                |                | Were all analyte identifications checked by a peer or supervisor?  | X   |    |                 |                 |                  |
|                |                | Were sample detection limits reported for all analytes not detected?   | X   |    |                 |                 |                  |
|                |                | Were all results for soil and sediment samples reported on a dry weight basis?   |     | X  |                 |                 |                  |
|                |                | Were % moisture (or solids) reported for all soil and sediment samples?  |     | X  |                 |                 |                  |
|                |                | Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?  |     | X  |                 |                 |                  |
|                |                | If required for the project, are TICs reported?  |     | X  |                 |                 |                  |
| R4             | O              | <b>Surrogate recovery data</b>   |     |    |                 |                 |                  |
|                |                | Were surrogates added prior to extraction?   | X   |    |                 |                 |                  |
|                |                | Were surrogate percent recoveries in all samples within the laboratory QC limits?  | X   |    |                 |                 |                  |
| R5             | OI             | <b>Test reports/summary forms for blank samples</b>  |     |    |                 |                 |                  |
|                |                | Were appropriate type(s) of blanks analyzed?   | X   |    |                 |                 |                  |
|                |                | Were blanks analyzed at the appropriate frequency?   | X   |    |                 |                 |                  |
|                |                | Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?  | X   |    |                 |                 |                  |
|                |                | Were blank concentrations < MQL?   | X   |    |                 |                 | R05D             |
| R6             | OI             | <b>Laboratory control samples (LCS):</b>   |     |    |                 |                 |                  |
|                |                | Were all COCs included in the LCS?   | X   |    |                 |                 |                  |
|                |                | Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?  | X   |    |                 |                 |                  |
|                |                | Were LCSs analyzed at the required frequency?  | X   |    |                 |                 |                  |
|                |                | Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?  | X   |    |                 |                 |                  |
|                |                | Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?                                  | X   |    |                 |                 |                  |
|                |                | Was the LCSD RPD within QC limits?   | X   |    |                 |                 |                  |
| R7             | OI             | <b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>   |     |    |                 |                 |                  |
|                |                | Were the project/method specified analytes included in the MS and MSD?   | X   |    |                 |                 |                  |
|                |                | Were MS/MSD analyzed at the appropriate frequency?   | X   |    |                 |                 |                  |
|                |                | Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?  |     | X  |                 |                 | R07C             |
|                |                | Were MS/MSD RPDs within laboratory QC limits?  | X   |    |                 |                 |                  |
| R8             | OI             | <b>Analytical duplicate data</b>   |     |    |                 |                 |                  |
|                |                | Were appropriate analytical duplicates analyzed for each matrix?   |     | X  |                 |                 |                  |
|                |                | Were analytical duplicates analyzed at the appropriate frequency?  |     | X  |                 |                 |                  |
|                |                | Were RPDs or relative standard deviations within the laboratory QC limits?   |     | X  |                 |                 |                  |
| R9             | OI             | <b>Method quantitation limits (MQLs):</b>  |     |    |                 |                 |                  |
|                |                | Are the MQLs for each method analyte included in the laboratory data package?  | X   |    |                 |                 |                  |
|                |                | Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?   | X   |    |                 |                 |                  |
|                |                | Are unadjusted MQLs and DCSs included in the laboratory data package?  | X   |    |                 |                 |                  |
| R10            | OI             | <b>Other problems/anomalies</b>  |     |    |                 |                 |                  |
|                |                | Are all known problems/anomalies/special conditions noted in this LRC and ER?  | X   |    |                 |                 |                  |
|                |                | Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?   | X   |    |                 |                 |                  |
|                |                | Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package? | X   |    |                 |                 |                  |

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

# Laboratory Review checklist: Supporting Data - Page 3 of 4

|                  |                                       |                        |              |
|------------------|---------------------------------------|------------------------|--------------|
| Laboratory Name: | Eurofins TestAmerica, Houston         | LRC Date:              | 9/20/2019    |
| Project Name:    | E Loving Field Onsurez #2             | Laboratory Job Number: | 600-191578-1 |
| Reviewer Name:   | Jasmine Turner, for Sachin Kudchadkar |                        |              |

| # <sup>1</sup> | A <sup>2</sup> | Description  | Yes | No | NA <sup>3</sup> | NR <sup>4</sup> | ER# <sup>5</sup> |
|----------------|----------------|--|-----|----|-----------------|-----------------|------------------|
| S1             | OI             | <b>Initial calibration (ICAL)</b>  |     |    |                 |                 |                  |
|                |                | Were response factors and/or relative response factors for each analyte within QC limits?                    | X   |    |                 |                 |                  |
|                |                | Were percent RSDs or correlation coefficient criteria met?   | X   |    |                 |                 |                  |
|                |                | Was the number of standards recommended in the method used for all analytes?                                 | X   |    |                 |                 |                  |
|                |                | Were all points generated between the lowest and highest standard used to calculate the curve?               | X   |    |                 |                 |                  |
|                |                | Are ICAL data available for all instruments used?  | X   |    |                 |                 |                  |
|                |                | Has the initial calibration curve been verified using an appropriate second source standard?                 | X   |    |                 |                 |                  |
| S2             | OI             | <b>Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):</b> |     |    |                 |                 |                  |
|                |                | Was the CCV analyzed at the method-required frequency?   | X   |    |                 |                 |                  |
|                |                | Were percent differences for each analyte within the method-required QC limits?                              | X   |    |                 |                 |                  |
|                |                | Was the ICAL curve verified for each analyte?  | X   |    |                 |                 |                  |
|                |                | Was the absolute value of the analyte concentration in the inorganic CCB < MDL?                              | X   |    |                 |                 |                  |
| S3             | O              | <b>Mass spectral tuning</b>  |     |    |                 |                 |                  |
|                |                | Was the appropriate compound for the method used for tuning?   | X   |    |                 |                 |                  |
|                |                | Were ion abundance data within the method-required QC limits?  | X   |    |                 |                 |                  |
| S4             | O              | <b>Internal standards (IS)</b>   |     |    |                 |                 |                  |
|                |                | Were IS area counts and retention times within the method-required QC limits?                                | X   |    |                 |                 |                  |
| S5             | OI             | <b>Raw data (NELAC Section 5.5.10)</b>   |     |    |                 |                 |                  |
|                |                | Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?                        | X   |    |                 |                 |                  |
|                |                | Were data associated with manual integrations flagged on the raw data?                                       | X   |    |                 |                 |                  |
| S6             | O              | <b>Dual column confirmation</b>  |     |    |                 |                 |                  |
|                |                | Did dual column confirmation results meet the method-required QC?  |     | X  |                 |                 |                  |
| S7             | O              | <b>Tentatively identified compounds (TICs)</b>   |     |    |                 |                 |                  |
|                |                | If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?                    |     | X  |                 |                 |                  |
| S8             | I              | <b>Interference Check Sample (ICS) results</b>   |     |    |                 |                 |                  |
|                |                | Were percent recoveries within method QC limits?   |     | X  |                 |                 |                  |
| S9             | I              | <b>Serial dilutions, post digestion spikes, and method of standard additions</b>                             |     |    |                 |                 |                  |
|                |                | Were percent differences, recoveries, and the linearity within the QC limits specified in the method?        |     | X  |                 |                 |                  |
| S10            | OI             | <b>Method detection limit (MDL) studies</b>  |     |    |                 |                 |                  |
|                |                | Was a MDL study performed for each reported analyte?   |     | X  |                 |                 |                  |
|                |                | Is the MDL either adjusted or supported by the analysis of DCSs?   |     | X  |                 |                 |                  |
| S11            | OI             | <b>Proficiency test reports</b>  |     |    |                 |                 |                  |
|                |                | Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?       |     | X  |                 |                 |                  |
| S12            | OI             | <b>Standards documentation</b>   |     |    |                 |                 |                  |
|                |                | Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?            |     | X  |                 |                 |                  |
| S13            | OI             | <b>Compound/analyte identification procedures</b>  |     |    |                 |                 |                  |
|                |                | Are the procedures for compound/analyte identification documented?   |     | X  |                 |                 |                  |
| S14            | OI             | <b>Demonstration of analyst competency (DOC)</b>   |     |    |                 |                 |                  |
|                |                | Was DOC conducted consistent with NELAC Chapter 5?   |     | X  |                 |                 |                  |
|                |                | Is documentation of the analyst's competency up-to-date and on file?   |     | X  |                 |                 |                  |
| S15            | OI             | <b>Verification/validation documentation for methods (NELAC Chapter 5)</b>                                   |     |    |                 |                 |                  |
|                |                | Are all the methods used to generate the data documented, verified, and validated, where applicable?         |     | X  |                 |                 |                  |
| S16            | OI             | <b>Laboratory standard operating procedures (SOPs)</b>   |     |    |                 |                 |                  |
|                |                | Are laboratory SOPs current and on file for each method performed?   |     | X  |                 |                 |                  |

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

## Laboratory Review Checklist: Exception Reports - Page 4 of 4

|                  |                                       |                        |              |
|------------------|---------------------------------------|------------------------|--------------|
| Laboratory Name: | Eurofins TestAmerica, Houston         | LRC Date:              | 9/20/2019    |
| Project Name:    | E Loving Field Onsurez #2             | Laboratory Job Number: | 600-191578-1 |
| Reviewer Name:   | Jasmine Turner, for Sachin Kudchadkar |                        |              |

| ER # <sup>1</sup> | Description  |
|-------------------|--|
| R05D              | Method 300.0: The method blank for analytical batch 600-274458 contained chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.  |
| R07C              | Method 300.0: 600-191578-1 MS and 600-191578-1 MSD recovered below QC limits for the following analyte: Chloride. Matrix interference is suspected.  |
|                   | <p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p> |

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Detection Check Standard

EuroFins TestAmerica, Houston

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**Matrix:** Water  
**Method:** TX\_1005  
**Prep Method:** X\_1005\_W\_Prep  
**Date Analyzed:** 4/19/2019  
**Job #:** 600-183721  
**TALS Batch:** 263117  
**Units:** mg/L

| Analyte      | Instrument # | MDL   | DCS Spike | Measured Result | MQL |
|--------------|--------------|-------|-----------|-----------------|-----|
| C6-C12       | CHFID07      | 0.830 | 1.007     | 0.989           | 2   |
| C6-C35       | CHFID07      | 0.830 | 2.007     | 1.990           | 2   |
| Over C12-C28 | CHFID07      | 0.960 | 1.000     | 1.044           | 2   |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

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9/20/2019

Detection Check Standard

EuroFins TestAmerica, Houston

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**Matrix:** Water  
**Method:** EPA 300 / SW-846 9056  
**Date Analyzed:** 5/16/2019  
**Job #:** 600-183719  
**TALS Batch:** 265145  
**Units:** mg/L

| Analyte      | Instrument # | MDL   | DCS Spike | Measured Result | MQL |
|--------------|--------------|-------|-----------|-----------------|-----|
| Bromide      | CHWC11       | 0.101 | 0.200     | 0.385           | 0.4 |
| Chloride     | CHWC11       | 0.053 | 0.200     | 0.126           | 0.4 |
| Fluoride     | CHWC11       | 0.060 | 0.200     | 0.139           | 0.2 |
| Nitrate as N | CHWC11       | 0.025 | 0.100     | 0.236           | 0.2 |
| Nitrite as N | CHWC11       | 0.030 | 0.400     | 0.016           | 0.2 |
| Sulfate      | CHWC11       | 0.096 | 0.400     | 0.473           | 0.5 |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

Page 1 of 1

9/20/2019

## Detection Check Standard

TestAmerica Houston

**Matrix:** Water  
**Method:** 8260B\_LL  
**Prep Method:** 5030C  
**Date Analyzed:** 4/17/2019  
**Job #:** 600-183722  
**TALS Batch:** 262989  
**Units:** ug/L

| Analyte                               | Instrument # | MDL   | DCS Spike | Measured Result | MQL |
|---------------------------------------|--------------|-------|-----------|-----------------|-----|
| 1,1,1,2-Tetrachloroethane             | CHVOAMS07    | 0.178 | 0.500     | 0.244           | 1   |
| 1,1,1-Trichloroethane                 | CHVOAMS07    | 0.209 | 0.500     | 0.311           | 1   |
| 1,1,2,2-Tetrachloroethane             | CHVOAMS07    | 0.197 | 0.500     | 0.743           | 1   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | CHVOAMS01    | 0.210 | 0.500     | 0.370           | 1   |
| 1,1,2-Trichloroethane                 | CHVOAMS01    | 0.209 | 0.500     | 0.400           | 1   |
| 1,1-Dichloroethane                    | CHVOAMS07    | 0.168 | 0.500     | 0.317           | 1   |
| 1,1-Dichloroethene                    | CHVOAMS07    | 0.192 | 0.500     | 0.341           | 1   |
| 1,1-Dichloropropene                   | CHVOAMS07    | 0.191 | 0.500     | 0.313           | 1   |
| 1,2,3-Trichlorobenzene                | CHVOAMS07    | 0.570 | 0.500     | 0.481           | 1   |
| 1,2,3-Trichloropropane                | CHVOAMS07    | 0.290 | 1.000     | 0.508           | 1   |
| 1,2,3-Trimethylbenzene                | CHVOAMS07    | 0.170 | 0.500     | 0.322           | 1   |
| 1,2,4-Trichlorobenzene                | CHVOAMS01    | 0.177 | 0.500     | 0.432           | 1   |
| 1,2,4-Trimethylbenzene                | CHVOAMS07    | 0.215 | 0.500     | 0.289           | 1   |
| 1,2-Dibromo-3-Chloropropane           | CHVOAMS01    | 0.810 | 0.500     | 0.635           | 1   |
| 1,2-Dichlorobenzene                   | CHVOAMS07    | 0.153 | 0.500     | 0.278           | 1   |
| 1,2-Dichloroethane                    | CHVOAMS07    | 0.116 | 0.500     | 0.348           | 1   |
| 1,2-Dichloroethene, Total             | CHVOAMS07    | 0.355 | 1.000     | 0.580           | 2   |
| 1,2-Dichloropropane                   | CHVOAMS07    | 0.136 | 0.500     | 0.305           | 1   |
| 1,3,5-Trichlorobenzene                | CHVOAMS01    | 0.187 | 0.500     | 0.410           | 1   |
| 1,3,5-Trimethylbenzene                | CHVOAMS07    | 0.210 | 0.500     | 0.626           | 1   |
| 1,3-Dichlorobenzene                   | CHVOAMS07    | 0.210 | 0.500     | 0.285           | 1   |
| 1,3-Dichloropropane                   | CHVOAMS07    | 0.220 | 0.500     | 0.263           | 1   |
| 1,3-Dichloropropene, Total            | CHVOAMS07    | 0.273 | 1.000     | 0.610           | 1   |
| 1,4-Dichlorobenzene                   | CHVOAMS07    | 0.176 | 0.500     | 0.286           | 1   |
| 1,4-Dioxane                           | CHVOAMS07    | 5.390 | 10.000    | 8.869           | 50  |
| 1-Chlorohexane                        | CHVOAMS07    | 0.205 | 0.500     | 0.324           | 1   |
| 2,2-Dichloropropane                   | CHVOAMS07    | 0.258 | 0.500     | 0.336           | 1   |
| 2,3-dichlorobutane                    | CHVOAMS07    | 0.730 | 1.000     | 0.790           | 2   |
| 2-Butanone (MEK)                      | CHVOAMS07    | 0.760 | 1.000     | 1.216           | 2   |
| 2-Chloro-1,3-butadiene                | CHVOAMS07    | 0.330 | 1.000     | 0.843           | 1   |
| 2-Chloroethyl vinyl ether             | CHVOAMS07    | 0.500 | 1.000     | 1.173           | 2   |
| 2-Chlorotoluene                       | CHVOAMS07    | 0.226 | 0.500     | 0.543           | 1   |
| 2-Ethyl-1-Hexanol                     | CHVOAMS07    | 9.090 | 20.000    | 35.706          | 50  |
| 2-Ethyl-2-hexenal                     | CHVOAMS07    | 0.350 | 1.000     | 1.549           | 2   |
| 2-Hexanone                            | CHVOAMS07    | 0.265 | 1.000     | 0.829           | 2   |
| 2-Methyl-2-propanol                   | CHVOAMS07    | 1.820 | 5.000     | 3.492           | 20  |
| 2-Methyltetrahydrofuran               | CHVOAMS07    | 1.560 | 2.500     | 3.038           | 5   |
| 2-Methyltetrahydropyran               | CHVOAMS07    | 1.230 | 2.500     | 2.324           | 5   |
| 2-Nitropropane                        | CHVOAMS07    | 0.367 | 1.000     | 1.024           | 2   |
| 3-Chloro-1-propene                    | CHVOAMS07    | 0.231 | 0.500     | 0.282           | 2   |
| 4-Chlorotoluene                       | CHVOAMS01    | 0.210 | 0.500     | 0.420           | 1   |
| 4-Isopropyltoluene                    | CHVOAMS07    | 0.228 | 0.500     | 0.306           | 1   |
| 4-Methyl-2-pentanone (MIBK)           | CHVOAMS07    | 0.348 | 1.000     | 0.921           | 2   |
| Acetone                               | CHVOAMS07    | 0.447 | 1.000     | 0.509           | 5   |
| Acetonitrile                          | CHVOAMS07    | 1.760 | 5.000     | 12.610          | 10  |
| Acrolein                              | CHVOAMS01    | 0.980 | 2.500     | 2.399           | 5   |
| Acrylonitrile                         | CHVOAMS07    | 0.957 | 5.000     | 2.296           | 10  |
| Benzene                               | CHVOAMS07    | 0.176 | 0.500     | 0.300           | 1   |
| Benzyl chloride                       | CHVOAMS07    | 0.306 | 0.500     | 0.316           | 1   |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

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9/20/2019

## Detection Check Standard

TestAmerica Houston

**Matrix:** Water  
**Method:** 8260B\_LL  
**Prep Method:** 5030C  
**Date Analyzed:** 4/17/2019  
**Job #:** 600-183722  
**TALS Batch:** 262989  
**Units:** ug/L

| Analyte                 | Instrument # | MDL   | DCS Spike | Measured Result | MQL |
|-------------------------|--------------|-------|-----------|-----------------|-----|
| Bromobenzene            | CHVOAMS07    | 0.195 | 0.500     | 0.271           | 1   |
| Bromoform               | CHVOAMS01    | 0.151 | 0.500     | 0.549           | 1   |
| Bromomethane            | CHVOAMS07    | 0.250 | 0.500     | 1.585           | 2   |
| Butadiene               | CHVOAMS07    | 0.282 | 1.000     | 0.885           | 1   |
| Carbon disulfide        | CHVOAMS07    | 0.216 | 0.500     | 0.350           | 2   |
| Carbon tetrachloride    | CHVOAMS07    | 0.183 | 0.500     | 0.314           | 1   |
| Chlorobenzene           | CHVOAMS07    | 0.185 | 0.500     | 0.298           | 1   |
| Chlorobromomethane      | CHVOAMS07    | 0.162 | 0.500     | 0.321           | 1   |
| Chlorodibromomethane    | CHVOAMS07    | 0.119 | 0.500     | 0.294           | 1   |
| Chloroethane            | CHVOAMS07    | 0.240 | 0.500     | 0.210           | 2   |
| Chloroform              | CHVOAMS07    | 0.151 | 0.500     | 0.333           | 1   |
| Chloromethane           | CHVOAMS07    | 0.209 | 0.500     | 0.368           | 2   |
| cis 2,3-dichlorobutane  | CHVOAMS07    | 0.093 | 0.500     | 0.340           | 1   |
| cis-1,2-Dichloroethene  | CHVOAMS07    | 0.157 | 0.500     | 0.277           | 1   |
| cis-1,3-Dichloropropene | CHVOAMS07    | 0.160 | 0.500     | 0.315           | 1   |
| Cyclohexane             | CHVOAMS07    | 0.221 | 0.500     | 0.354           | 1   |
| Cyclohexanone           | CHVOAMS07    | 8.640 | 25.000    | 26.874          | 50  |
| Dibromomethane          | CHVOAMS07    | 0.520 | 0.500     | 0.336           | 1   |
| Dichlorobromomethane    | CHVOAMS07    | 0.153 | 0.500     | 0.305           | 1   |
| Dichlorodifluoromethane | CHVOAMS07    | 0.859 | 0.500     | 0.951           | 1   |
| Dichlorofluoromethane   | CHVOAMS07    | 0.244 | 0.500     | 0.306           | 1   |
| Ethyl acetate           | CHVOAMS07    | 0.378 | 1.000     | 0.862           | 2   |
| Ethyl acrylate          | CHVOAMS07    | 0.232 | 0.500     | 0.211           | 2   |
| Ethyl ether             | CHVOAMS07    | 0.103 | 0.500     | 0.293           | 1   |
| Ethyl methacrylate      | CHVOAMS07    | 0.260 | 0.500     | 0.430           | 2   |
| Ethylbenzene            | CHVOAMS07    | 0.212 | 0.500     | 0.283           | 1   |
| Ethylene Dibromide      | CHVOAMS07    | 0.111 | 0.500     | 0.301           | 1   |
| Ethylene oxide          | CHVOAMS07    | 2.490 | 5.000     | 4.545           | 10  |
| Hexachlorobutadiene     | CHVOAMS01    | 0.215 | 0.500     | 0.449           | 1   |
| Hexane                  | CHVOAMS07    | 0.256 | 1.000     | 0.126           | 1   |
| Iodomethane             | CHVOAMS07    | 0.158 | 0.500     | 1.995           | 2   |
| Isobutyl alcohol        | CHVOAMS07    | 2.190 | 12.500    | 18.338          | 50  |
| Isooctane               | CHVOAMS07    | 0.257 | 0.500     | 0.367           | 1   |
| Isopropyl alcohol       | CHVOAMS07    | 3.720 | 5.000     | 3.448           | 10  |
| Isopropyl ether         | CHVOAMS07    | 0.141 | 0.500     | 0.236           | 1   |
| Isopropylbenzene        | CHVOAMS07    | 0.241 | 0.500     | 0.422           | 1   |
| Methacrylonitrile       | CHVOAMS07    | 1.160 | 5.000     | 2.500           | 10  |
| Methyl acetate          | CHVOAMS07    | 0.550 | 1.000     | 0.520           | 5   |
| Methyl methacrylate     | CHVOAMS07    | 0.220 | 1.000     | 0.795           | 2   |
| Methyl tert-butyl ether | CHVOAMS07    | 0.105 | 0.500     | 0.299           | 1   |
| Methylcyclohexane       | CHVOAMS01    | 0.206 | 0.500     | 0.360           | 1   |
| Methylene Chloride      | CHVOAMS07    | 0.176 | 0.500     | 0.371           | 5   |
| m-Xylene & p-Xylene     | CHVOAMS07    | 0.205 | 0.500     | 0.296           | 1   |
| Naphthalene             | CHVOAMS07    | 0.129 | 0.500     | 0.740           | 2   |
| n-Butyl acetate         | CHVOAMS07    | 0.286 | 0.500     | 0.643           | 1   |
| n-Butylbenzene          | CHVOAMS07    | 0.212 | 0.500     | 0.296           | 1   |
| n-Heptane               | CHVOAMS07    | 0.265 | 0.500     | 0.327           | 1   |
| N-Propylbenzene         | CHVOAMS07    | 0.230 | 0.500     | 0.268           | 1   |
| o-Xylene                | CHVOAMS01    | 0.192 | 0.500     | 0.371           | 1   |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

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9/20/2019

## Detection Check Standard

TestAmerica Houston

**Matrix:** Water  
**Method:** 8260B\_LL  
**Prep Method:** 5030C  
**Date Analyzed:** 4/17/2019  
**Job #:** 600-183722  
**TALS Batch:** 262989  
**Units:** ug/L

| Analyte                     | Instrument # | MDL   | DCS Spike | Measured Result | MQL |
|-----------------------------|--------------|-------|-----------|-----------------|-----|
| Propionitrile               | CHVOAMS07    | 0.751 | 5.000     | 3.390           | 10  |
| sec-Butylbenzene            | CHVOAMS07    | 0.224 | 0.500     | 0.337           | 1   |
| Styrene                     | CHVOAMS07    | 0.175 | 0.500     | 0.239           | 1   |
| Tert-amyl methyl ether      | CHVOAMS07    | 0.108 | 0.500     | 0.251           | 1   |
| Tert-butyl ethyl ether      | CHVOAMS07    | 0.125 | 0.500     | 0.248           | 1   |
| tert-Butylbenzene           | CHVOAMS01    | 0.216 | 0.500     | 0.389           | 1   |
| Tetrachloroethene           | CHVOAMS07    | 0.333 | 0.500     | 0.263           | 1   |
| Tetrahydrofuran             | CHVOAMS07    | 0.690 | 1.000     | 0.654           | 5   |
| Tetrahydropyran             | CHVOAMS07    | 1.560 | 2.500     | 3.072           | 5   |
| Toluene                     | CHVOAMS07    | 0.198 | 0.500     | 0.318           | 1   |
| trans 2,3-dichlorobutane    | CHVOAMS07    | 0.103 | 0.500     | 0.446           | 1   |
| trans-1,2-Dichloroethene    | CHVOAMS07    | 0.192 | 0.500     | 0.302           | 1   |
| trans-1,3-Dichloropropene   | CHVOAMS07    | 0.137 | 0.500     | 0.299           | 1   |
| trans-1,4-Dichloro-2-butene | CHVOAMS07    | 0.640 | 0.500     | 0.095           | 2   |
| Trichloroethene             | CHVOAMS07    | 0.138 | 0.500     | 0.355           | 1   |
| Trichlorofluoromethane      | CHVOAMS07    | 0.244 | 1.000     | 0.221           | 1   |
| Trihalomethanes, Total      | CHVOAMS07    | 0.566 | 2.000     | 0.930           | 5   |
| Vinyl acetate               | CHVOAMS07    | 0.854 | 1.000     | 0.484           | 2   |
| Vinyl chloride              | CHVOAMS07    | 0.248 | 0.500     | 0.322           | 2   |
| Xylenes, Total              | CHVOAMS07    | 0.366 | 1.000     | 0.300           | 2   |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

Detection Check Standard

EuroFins TestAmerica, Houston

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**Matrix:** Water  
**Method:** SM 2540C  
**Date Analyzed:** 5/30/2019  
**Job #:** 600-183719  
**TALS Batch:** 266184  
**Units:** mg/L

| Analyte                | Instrument # | MDL       | DCS Spike | Measured Result | MQL       |
|------------------------|--------------|-----------|-----------|-----------------|-----------|
| Total Dissolved Solids | MDLV Fail    | MDLV Fail | MDLV Fail | MDLV Fail       | MDLV Fail |

DCS = Detection Check Standard

MQL = Method Quantitation Limit

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9/20/2019

**Case Narrative**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Job ID: 600-191578-1****Laboratory: Eurofins TestAmerica, Houston****Narrative**

**Job Narrative  
600-191578-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/7/2019 10:49 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.7° C and 1.8° C.

***All applicable analytical narratives can be found in the TRRP Checklist section of this report.***

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## Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

| Method         | Method Description                              | Protocol | Laboratory |
|----------------|---|----------|------------|
| 8260B          | Volatile Organic Compounds (GC/MS)              | SW846    | TAL HOU    |
| 8015_M         | Total Petroleum Hydrocarbon (GC)                | SW846    | TAL HOU    |
| 300.0          | Anions, Ion Chromatography                      | MCAWW    | TAL HOU    |
| SM 2540C       | Solids, Total Dissolved (TDS)                   | SM       | TAL HOU    |
| 5030B          | Purge and Trap                                  | SW846    | TAL HOU    |
| TX_1005_W_Prep | Extraction - Texas Total petroleum Hyrdocarbons | TCEQ     | TAL HOU    |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

TCEQ = Texas Commission of Environmental Quality

**Laboratory References:**

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

Eurofins TestAmerica, Houston

**Sample Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 600-191578-1  | POD1-W-190905    | Water  | 09/05/19 17:34 | 09/07/19 10:49 |          |
| 600-191578-2  | POD2-W-190905    | Water  | 09/05/19 15:49 | 09/07/19 10:49 |          |
| 600-191578-3  | POD3-W-190905    | Water  | 09/05/19 16:45 | 09/07/19 10:49 |          |
| 600-191578-4  | POD4-W-190905    | Water  | 09/05/19 14:24 | 09/07/19 10:49 |          |
| 600-191578-5  | EB1-W-190905     | Water  | 09/05/19 14:50 | 09/07/19 10:49 |          |
| 600-191578-6  | DUP1-W-190905    | Water  | 09/05/19 00:00 | 09/07/19 10:49 |          |
| 600-191578-7  | TB-1-W-190905    | Water  | 09/05/19 00:00 | 09/07/19 10:49 |          |

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Eurofins TestAmerica, Houston

**Detection Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: POD1-W-190905****Lab Sample ID: 600-191578-1**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|------|------|---------|---|----------|-----------|
| Chloride               | 2020   |           | 40.0      | 5.34 | mg/L | 100     |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 6790   |           | 100       | 100  | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: POD2-W-190905****Lab Sample ID: 600-191578-2**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|------|------|---------|---|----------|-----------|
| Chloride               | 2160   |           | 40.0      | 5.34 | mg/L | 100     |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 7010   |           | 100       | 100  | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: POD3-W-190905****Lab Sample ID: 600-191578-3**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|------|------|---------|---|----------|-----------|
| Chloride               | 1220   |           | 40.0      | 5.34 | mg/L | 100     |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 4960   |           | 40.0      | 40.0 | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: POD4-W-190905****Lab Sample ID: 600-191578-4**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|------|------|---------|---|----------|-----------|
| Chloride               | 1530   |           | 40.0      | 5.34 | mg/L | 100     |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 5560   |           | 40.0      | 40.0 | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: EB1-W-190905****Lab Sample ID: 600-191578-5**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL    | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|--------|------|---------|---|----------|-----------|
| Chloride               | 0.228  | J         | 0.400     | 0.0534 | mg/L | 1       |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 21.0   |           | 10.0      | 10.0   | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: DUP1-W-190905****Lab Sample ID: 600-191578-6**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | Dil Fac | D | Method   | Prep Type |
|------------------------|--------|-----------|-----------|------|------|---------|---|----------|-----------|
| Chloride               | 1980   | b         | 40.0      | 5.34 | mg/L | 100     |   | 300.0    | Total/NA  |
| Total Dissolved Solids | 6620   |           | 100       | 100  | mg/L | 1       |   | SM 2540C | Total/NA  |

**Client Sample ID: TB-1-W-190905****Lab Sample ID: 600-191578-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: POD1-W-190905****Lab Sample ID: 600-191578-1**

Matrix: Water

Date Collected: 09/05/19 17:34  
Date Received: 09/07/19 10:49

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U *       | 1.00      | 0.176 | ug/L |   |          | 09/10/19 20:09 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 09/10/19 20:09 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 09/10/19 20:09 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 09/10/19 20:09 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 50 - 134 |          | 09/10/19 20:09 | 1       |
| Dibromofluoromethane         | 100       |           | 62 - 130 |          | 09/10/19 20:09 | 1       |
| Toluene-d8 (Surr)            | 75        |           | 70 - 130 |          | 09/10/19 20:09 | 1       |
| 4-Bromofluorobenzene         | 100       |           | 67 - 139 |          | 09/10/19 20:09 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte             | Result    | Qualifier | MQL (Adj) | SDL            | Unit           | D       | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|-----------|----------------|----------------|---------|----------------|----------------|---------|
| C6-C12              | 0.728     | U         | 1.75      | 0.728          | mg/L           |         | 09/18/19 07:53 | 09/18/19 12:53 | 1       |
| Over C12-C28        | 0.842     | U         | 1.75      | 0.842          | mg/L           |         | 09/18/19 07:53 | 09/18/19 12:53 | 1       |
| Over C28-C35        | 0.842     | U         | 1.75      | 0.842          | mg/L           |         | 09/18/19 07:53 | 09/18/19 12:53 | 1       |
| Surrogate           | %Recovery | Qualifier | Limits    | Prepared       | Analyzed       | Dil Fac |                |                |         |
| <i>o</i> -Terphenyl | 81        |           | 70 - 130  | 09/18/19 07:53 | 09/18/19 12:53 | 1       |                |                |         |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 2020   |           | 40.0      | 5.34 | mg/L |   |          | 09/12/19 16:21 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 6790   |           | 100       | 100 | mg/L |   |          | 09/10/19 13:48 | 1       |

**Client Sample ID: POD2-W-190905****Lab Sample ID: 600-191578-2**

Matrix: Water

Date Collected: 09/05/19 15:49  
Date Received: 09/07/19 10:49

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U *       | 1.00      | 0.176 | ug/L |   |          | 09/10/19 20:37 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 09/10/19 20:37 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 09/10/19 20:37 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 09/10/19 20:37 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 125       |           | 50 - 134 |          | 09/10/19 20:37 | 1       |
| Dibromofluoromethane         | 110       |           | 62 - 130 |          | 09/10/19 20:37 | 1       |
| Toluene-d8 (Surr)            | 80        |           | 70 - 130 |          | 09/10/19 20:37 | 1       |
| 4-Bromofluorobenzene         | 107       |           | 67 - 139 |          | 09/10/19 20:37 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------------|----------------|---------|
| C6-C12       | 0.737  | U         | 1.78      | 0.737 | mg/L |   | 09/18/19 07:53 | 09/18/19 14:11 | 1       |
| Over C12-C28 | 0.852  | U         | 1.78      | 0.852 | mg/L |   | 09/18/19 07:53 | 09/18/19 14:11 | 1       |
| Over C28-C35 | 0.852  | U         | 1.78      | 0.852 | mg/L |   | 09/18/19 07:53 | 09/18/19 14:11 | 1       |

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: POD2-W-190905****Lab Sample ID: 600-191578-2**

Matrix: Water

Date Collected: 09/05/19 15:49  
Date Received: 09/07/19 10:49

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o-Terphenyl</i> | 94        |           | 70 - 130 | 09/18/19 07:53 | 09/18/19 14:11 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 2160   |           | 40.0      | 5.34 | mg/L | D |          | 09/11/19 11:13 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 7010   |           | 100       | 100 | mg/L | D |          | 09/10/19 13:48 | 1       |

**Client Sample ID: POD3-W-190905****Lab Sample ID: 600-191578-3**

Matrix: Water

Date Collected: 09/05/19 16:45  
Date Received: 09/07/19 10:49

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U *       | 1.00      | 0.176 | ug/L |   |          | 09/10/19 21:05 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 09/10/19 21:05 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 09/10/19 21:05 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 09/10/19 21:05 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 124       |           | 50 - 134 |          | 09/10/19 21:05 | 1       |
| Dibromofluoromethane         | 108       |           | 62 - 130 |          | 09/10/19 21:05 | 1       |
| Toluene-d8 (Surr)            | 79        |           | 70 - 130 |          | 09/10/19 21:05 | 1       |
| 4-Bromofluorobenzene         | 106       |           | 67 - 139 |          | 09/10/19 21:05 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------------|----------------|---------|
| C6-C12       | 0.728  | U         | 1.75      | 0.728 | mg/L | D | 09/18/19 07:53 | 09/18/19 14:51 | 1       |
| Over C12-C28 | 0.842  | U         | 1.75      | 0.842 | mg/L |   | 09/18/19 07:53 | 09/18/19 14:51 | 1       |
| Over C28-C35 | 0.842  | U         | 1.75      | 0.842 | mg/L |   | 09/18/19 07:53 | 09/18/19 14:51 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o-Terphenyl</i> | 105       |           | 70 - 130 | 09/18/19 07:53 | 09/18/19 14:51 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 1220   |           | 40.0      | 5.34 | mg/L | D |          | 09/11/19 11:33 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 4960   |           | 40.0      | 40.0 | mg/L | D |          | 09/10/19 13:48 | 1       |

**Client Sample ID: POD4-W-190905****Lab Sample ID: 600-191578-4**

Matrix: Water

Date Collected: 09/05/19 14:24  
Date Received: 09/07/19 10:49

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

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene      | 0.176  | U *       | 1.00      | 0.176 | ug/L |   |          | 09/10/19 21:32 | 1       |
| Ethylbenzene | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 09/10/19 21:32 | 1       |
| Toluene      | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 09/10/19 21:32 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: POD4-W-190905**

Date Collected: 09/05/19 14:24  
Date Received: 09/07/19 10:49

**Lab Sample ID: 600-191578-4**

Matrix: Water

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

| Analyte                      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Xylenes, Total               | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 09/10/19 21:32 | 1       |
| <b>Surrogate</b>             |        |           |           |       |      |   |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 130    |           | 50 - 134  |       |      |   | Prepared | 09/10/19 21:32 | 1       |
| Dibromofluoromethane         | 114    |           | 62 - 130  |       |      |   |          | 09/10/19 21:32 | 1       |
| Toluene-d8 (Surr)            | 88     |           | 70 - 130  |       |      |   |          | 09/10/19 21:32 | 1       |
| 4-Bromofluorobenzene         | 116    |           | 67 - 139  |       |      |   |          | 09/10/19 21:32 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12           | 0.737  | U         | 1.78      | 0.737 | mg/L |   |          | 09/18/19 07:53 | 1       |
| Over C12-C28     | 0.852  | U         | 1.78      | 0.852 | mg/L |   |          | 09/18/19 07:53 | 1       |
| Over C28-C35     | 0.852  | U         | 1.78      | 0.852 | mg/L |   |          | 09/18/19 07:53 | 1       |
| <b>Surrogate</b> |        |           |           |       |      |   |          |                |         |
| o-Terphenyl      | 96     |           | 70 - 130  |       |      |   | Prepared | 09/18/19 07:53 | 1       |
|                  |        |           |           |       |      |   |          | 09/18/19 15:31 |         |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 1530   |           | 40.0      | 5.34 | mg/L |   |          | 09/11/19 11:53 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 5560   |           | 40.0      | 40.0 | mg/L |   |          | 09/10/19 13:48 | 1       |

**Client Sample ID: EB1-W-190905**

Date Collected: 09/05/19 14:50  
Date Received: 09/07/19 10:49

**Lab Sample ID: 600-191578-5**

Matrix: Water

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

| Analyte                      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene                      | 0.176  | U *       | 1.00      | 0.176 | ug/L |   |          | 09/10/19 19:13 | 1       |
| Ethylbenzene                 | 0.212  | U         | 1.00      | 0.212 | ug/L |   |          | 09/10/19 19:13 | 1       |
| Toluene                      | 0.198  | U         | 1.00      | 0.198 | ug/L |   |          | 09/10/19 19:13 | 1       |
| Xylenes, Total               | 0.366  | U         | 2.00      | 0.366 | ug/L |   |          | 09/10/19 19:13 | 1       |
| <b>Surrogate</b>             |        |           |           |       |      |   |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 113    |           | 50 - 134  |       |      |   | Prepared | 09/10/19 19:13 | 1       |
| Dibromofluoromethane         | 107    |           | 62 - 130  |       |      |   |          | 09/10/19 19:13 | 1       |
| Toluene-d8 (Surr)            | 77     |           | 70 - 130  |       |      |   |          | 09/10/19 19:13 | 1       |
| 4-Bromofluorobenzene         | 102    |           | 67 - 139  |       |      |   |          | 09/10/19 19:13 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| C6-C12           | 0.743  | U         | 1.79      | 0.743 | mg/L |   |          | 09/18/19 07:53 | 1       |
| Over C12-C28     | 0.860  | U         | 1.79      | 0.860 | mg/L |   |          | 09/18/19 07:53 | 1       |
| Over C28-C35     | 0.860  | U         | 1.79      | 0.860 | mg/L |   |          | 09/18/19 07:53 | 1       |
| <b>Surrogate</b> |        |           |           |       |      |   |          |                |         |
| o-Terphenyl      | 93     |           | 70 - 130  |       |      |   | Prepared | 09/18/19 07:53 | 1       |
|                  |        |           |           |       |      |   |          | 09/18/19 16:11 |         |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: EB1-W-190905**  
Date Collected: 09/05/19 14:50  
Date Received: 09/07/19 10:49

**Lab Sample ID: 600-191578-5**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 0.228  | J         | 0.400     | 0.0534 | mg/L | - | -        | 09/11/19 12:13 | 1       |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 21.0   | -         | 10.0      | 10.0 | mg/L | - | -        | 09/10/19 13:48 | 1       |

**Client Sample ID: DUP1-W-190905**

Date Collected: 09/05/19 00:00  
Date Received: 09/07/19 10:49

**Lab Sample ID: 600-191578-6**  
Matrix: Water

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U *       | 1.00      | 0.176 | ug/L | - | -        | 09/10/19 22:00 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L | - | -        | 09/10/19 22:00 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L | - | -        | 09/10/19 22:00 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L | - | -        | 09/10/19 22:00 | 1       |

**Surrogate**

|                              | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 126       | -         | 50 - 134 | -        | 09/10/19 22:00 | 1       |
| Dibromofluoromethane         | 114       | -         | 62 - 130 | -        | 09/10/19 22:00 | 1       |
| Toluene-d8 (Surr)            | 84        | -         | 70 - 130 | -        | 09/10/19 22:00 | 1       |
| 4-Bromofluorobenzene         | 110       | -         | 67 - 139 | -        | 09/10/19 22:00 | 1       |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)**

| Analyte      | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------|--------|-----------|-----------|-------|------|---|----------------|----------------|---------|
| C6-C12       | 0.718  | U         | 1.73      | 0.718 | mg/L | - | 09/18/19 07:53 | 09/18/19 16:52 | 1       |
| Over C12-C28 | 0.830  | U         | 1.73      | 0.830 | mg/L | - | 09/18/19 07:53 | 09/18/19 16:52 | 1       |
| Over C28-C35 | 0.830  | U         | 1.73      | 0.830 | mg/L | - | 09/18/19 07:53 | 09/18/19 16:52 | 1       |

**Surrogate**

|             | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 83        | -         | 70 - 130 | 09/18/19 07:53 | 09/18/19 16:52 | 1       |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 1980   | b         | 40.0      | 5.34 | mg/L | - | -        | 09/11/19 20:48 | 100     |

**General Chemistry**

| Analyte                | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | 6620   | -         | 100       | 100 | mg/L | - | -        | 09/11/19 14:20 | 1       |

**Client Sample ID: TB-1-W-190905**

Date Collected: 09/05/19 00:00  
Date Received: 09/07/19 10:49

**Lab Sample ID: 600-191578-7**  
Matrix: Water

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.176  | U *       | 1.00      | 0.176 | ug/L | - | -        | 09/10/19 16:49 | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00      | 0.212 | ug/L | - | -        | 09/10/19 16:49 | 1       |
| Toluene        | 0.198  | U         | 1.00      | 0.198 | ug/L | - | -        | 09/10/19 16:49 | 1       |
| Xylenes, Total | 0.366  | U         | 2.00      | 0.366 | ug/L | - | -        | 09/10/19 16:49 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: TB-1-W-190905****Lab Sample ID: 600-191578-7**

Date Collected: 09/05/19 00:00

Matrix: Water

Date Received: 09/07/19 10:49

| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
|------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 121              |                  | 50 - 134      |                 | 09/10/19 16:49  | 1              |
| Dibromofluoromethane         | 111              |                  | 62 - 130      |                 | 09/10/19 16:49  | 1              |
| Toluene-d8 (Surr)            | 85               |                  | 70 - 130      |                 | 09/10/19 16:49  | 1              |
| 4-Bromofluorobenzene         | 98               |                  | 67 - 139      |                 | 09/10/19 16:49  | 1              |

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

### Qualifiers

#### GC/MS VOA

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

#### GC Semi VOA

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

#### HPLC/IC

| Qualifier | Qualifier Description   |
|-----------|---|
| b         | The compound was found in the blank and sample  |
| J         | Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value. |
| 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                         |
|-----------|---|
| 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: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Matrix: Water****Prep Type: Total/NA**

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                  |                 |                 |
|------------------|--------------------|--|------------------|-----------------|-----------------|
|                  |                    | DCA<br>(50-134)                                | DBFM<br>(62-130) | TOL<br>(70-130) | BFB<br>(67-139) |
| 600-191578-1     | POD1-W-190905      | 109  | 100              | 75              | 100             |
| 600-191578-2     | POD2-W-190905      | 125  | 110              | 80              | 107             |
| 600-191578-3     | POD3-W-190905      | 124  | 108              | 79              | 106             |
| 600-191578-4     | POD4-W-190905      | 130  | 114              | 88              | 116             |
| 600-191578-5     | EB1-W-190905       | 113  | 107              | 77              | 102             |
| 600-191578-6     | DUP1-W-190905      | 126  | 114              | 84              | 110             |
| 600-191578-7     | TB-1-W-190905      | 121  | 111              | 85              | 98              |
| LCS 600-274325/4 | Lab Control Sample | 101  | 91               | 72              | 87              |
| MB 600-274325/7  | Method Blank       | 110  | 103              | 76              | 93              |

**Surrogate Legend**

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

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Matrix: Water****Prep Type: Total/NA**

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |
|---------------------|------------------------|--|--|--|--|
|                     |                        | OTPH<br>(70-130)                               |  |  |  |
| 600-191578-1        | POD1-W-190905          | 81   |  |  |  |
| 600-191578-2        | POD2-W-190905          | 94   |  |  |  |
| 600-191578-3        | POD3-W-190905          | 105  |  |  |  |
| 600-191578-4        | POD4-W-190905          | 96   |  |  |  |
| 600-191578-5        | EB1-W-190905           | 93   |  |  |  |
| 600-191578-6        | DUP1-W-190905          | 83   |  |  |  |
| LCS 600-275046/2-A  | Lab Control Sample     | 94   |  |  |  |
| LCSD 600-275046/3-A | Lab Control Sample Dup | 88   |  |  |  |
| MB 600-275046/1-A   | Method Blank           | 99   |  |  |  |

**Surrogate Legend**

OTPH = o-Terphenyl

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)****Lab Sample ID: MB 600-274325/7****Matrix: Water****Analysis Batch: 274325**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB     | MB        | D    | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|----------|----------|---------|
|                | Result | Qualifier |      |          |          |         |
| Benzene        | 0.176  | U         | 1.00 | 0.176    | ug/L     | 1       |
| Ethylbenzene   | 0.212  | U         | 1.00 | 0.212    | ug/L     | 1       |
| Toluene        | 0.198  | U         | 1.00 | 0.198    | ug/L     | 1       |
| Xylenes, Total | 0.366  | U         | 2.00 | 0.366    | ug/L     | 1       |

| Surrogate                    | MB        | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 50 - 134 |          | 09/10/19 15:21 | 1       |
| Dibromofluoromethane         | 103       |           | 62 - 130 |          | 09/10/19 15:21 | 1       |
| Toluene-d8 (Surr)            | 76        |           | 70 - 130 |          | 09/10/19 15:21 | 1       |
| 4-Bromofluorobenzene         | 93        |           | 67 - 139 |          | 09/10/19 15:21 | 1       |

**Lab Sample ID: LCS 600-274325/4****Matrix: Water****Analysis Batch: 274325**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte        | Spike | LCS    | LCS       | Unit | D   | %Rec     | %Rec. | Limits |
|----------------|-------|--------|-----------|------|-----|----------|-------|--------|
|                | Added | Result | Qualifier |      |     |          |       |        |
| Benzene        | 10.0  | 14.26  | *         | ug/L | 143 | 70 - 130 |       |        |
| Ethylbenzene   | 10.0  | 8.412  |           | ug/L | 84  | 70 - 130 |       |        |
| Toluene        | 10.0  | 9.013  |           | ug/L | 90  | 70 - 130 |       |        |
| Xylenes, Total | 20.0  | 18.06  |           | ug/L | 90  | 70 - 130 |       |        |

| Surrogate                    | LCS       | LCS       | Limits   | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------|---------|
|                              | %Recovery | Qualifier |          |          |          |         |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 50 - 134 |          |          |         |
| Dibromofluoromethane         | 91        |           | 62 - 130 |          |          |         |
| Toluene-d8 (Surr)            | 72        |           | 70 - 130 |          |          |         |
| 4-Bromofluorobenzene         | 87        |           | 67 - 139 |          |          |         |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Lab Sample ID: MB 600-275046/1-A****Matrix: Water****Analysis Batch: 275099**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 275046**

| Analyte      | MB     | MB        | D    | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|------|----------|----------|---------|
|              | Result | Qualifier |      |          |          |         |
| C6-C12       | 0.830  | U         | 2.00 | 0.830    | mg/L     | 1       |
| Over C12-C28 | 0.960  | U         | 2.00 | 0.960    | mg/L     | 1       |
| Over C28-C35 | 0.960  | U         | 2.00 | 0.960    | mg/L     | 1       |

| Surrogate           | MB        | MB        | Limits   | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------|----------|---------|
|                     | %Recovery | Qualifier |          |          |          |         |
| <i>o</i> -Terphenyl | 99        |           | 70 - 130 |          |          |         |

**Lab Sample ID: LCS 600-275046/2-A****Matrix: Water****Analysis Batch: 275099**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 275046**

| Analyte      | Spike | LCS    | LCS       | Unit | D  | %Rec     | Limits |
|--------------|-------|--------|-----------|------|----|----------|--------|
|              | Added | Result | Qualifier |      |    |          |        |
| C6-C12       | 33.6  | 28.85  |           | mg/L | 86 | 75 - 125 |        |
| Over C12-C28 | 33.3  | 25.99  |           | mg/L | 78 | 75 - 125 |        |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC) (Continued)**

| Surrogate          | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|--------------------|------------------|------------------|----------|
| <i>o-Terphenyl</i> | 94               |                  | 70 - 130 |

Lab Sample ID: LCSD 600-275046/3-A

Matrix: Water

Analysis Batch: 275099

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 275046

| Analyte      | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D  | %Rec.    | RPD | Limit |
|--------------|----------------|----------------|-------------------|------|----|----------|-----|-------|
| C6-C12       | 33.6           | 25.22          |                   | mg/L | 75 | 75 - 125 | 13  | 20    |
| Over C12-C28 | 33.3           | 27.46          |                   | mg/L | 82 | 75 - 125 | 6   | 20    |

| Surrogate          | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|--------------------|------------------|------------------|----------|
| <i>o-Terphenyl</i> | 88               |                  | 70 - 130 |

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 600-274331/65

Matrix: Water

Analysis Batch: 274331

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

| Analyte  | MB<br>Result | MB<br>Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 0.0534       | U               | 0.400     | 0.0534 | mg/L |   |          | 09/11/19 09:33 | 1       |

Lab Sample ID: LCS 600-274331/66

Matrix: Water

Analysis Batch: 274331

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

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D  | %Rec.    | Limit |
|----------|----------------|---------------|------------------|------|----|----------|-------|
| Chloride | 20.0           | 19.57         |                  | mg/L | 98 | 90 - 110 |       |

Lab Sample ID: 600-191578-1 MS

Matrix: Water

Analysis Batch: 274331

Client Sample ID: POD1-W-190905  
Prep Type: Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D    | %Rec.    | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|------|----------|-------|
| Chloride | 22.2             | J                   | 1000           | 19.44        | J N1            | mg/L | -0.3 | 80 - 120 |       |

Lab Sample ID: 600-191578-1 MSD

Matrix: Water

Analysis Batch: 274331

Client Sample ID: POD1-W-190905  
Prep Type: Total/NA

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D    | %Rec.    | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|------|----------|-----|-------|
| Chloride | 22.2             | J                   | 1000           | 19.07         | J N1             | mg/L | -0.3 | 80 - 120 | 2   | 20    |

Lab Sample ID: MB 600-274458/4

Matrix: Water

Analysis Batch: 274458

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

| Analyte  | MB<br>Result | MB<br>Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 0.1894       | J               | 0.400     | 0.0534 | mg/L |   |          | 09/11/19 16:28 | 1       |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Method: 300.0 - Anions, Ion Chromatography (Continued)****Lab Sample ID: LCS 600-274458/5****Matrix: Water****Analysis Batch: 274458****Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D   | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|-----|------|--------------|
| Chloride | 20.0        | 20.00      |               | mg/L | 100 |      | 90 - 110     |

**Lab Sample ID: MB 600-274588/4****Matrix: Water****Analysis Batch: 274588****Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte  | MB Result | MB Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 0.0534    | U            | 0.400     | 0.0534 | mg/L |   |          | 09/12/19 13:25 | 1       |

**Lab Sample ID: LCS 600-274588/5****Matrix: Water****Analysis Batch: 274588****Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D  | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|----|------|--------------|
| Chloride | 20.0        | 19.84      |               | mg/L | 99 |      | 90 - 110     |

**Method: SM 2540C - Solids, Total Dissolved (TDS)****Lab Sample ID: MB 600-274347/1****Matrix: Water****Analysis Batch: 274347****Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10.0      | U            | 10.0      | 10.0 | mg/L |   |          | 09/10/19 13:48 | 1       |

**Lab Sample ID: LCS 600-274347/2****Matrix: Water****Analysis Batch: 274347****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        | 1756       |               | mg/L | 98 |      | 90 - 110     |

**Lab Sample ID: MB 600-274507/1****Matrix: Water****Analysis Batch: 274507****Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                | MB Result | MB Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|-----------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 10.0      | U            | 10.0      | 10.0 | mg/L |   |          | 09/11/19 14:20 | 1       |

**Lab Sample ID: LCS 600-274507/2****Matrix: Water****Analysis Batch: 274507****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        | 1848       |               | mg/L | 103 |      | 90 - 110     |

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**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.

Job ID: 600-191578-1

Project/Site: E Loving Field Onsurez #2

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

| Analyte        | MQL  | MDL   | Units |
|----------------|------|-------|-------|
| Benzene        | 1.00 | 0.176 | ug/L  |
| Ethylbenzene   | 1.00 | 0.212 | ug/L  |
| Toluene        | 1.00 | 0.198 | ug/L  |
| Xylenes, Total | 2.00 | 0.366 | ug/L  |

**Method: 8015\_M - Total Petroleum Hydrocarbon (GC)****Prep: TX\_1005\_W\_Prep**

| Analyte      | MQL  | MDL   | Units |
|--------------|------|-------|-------|
| C6-C12       | 2.00 | 0.830 | mg/L  |
| Over C12-C28 | 2.00 | 0.960 | mg/L  |
| Over C28-C35 | 2.00 | 0.960 | mg/L  |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | MQL   | MDL    | Units |
|----------|-------|--------|-------|
| Chloride | 0.400 | 0.0534 | mg/L  |

**General Chemistry**

| Analyte                | MQL  | MDL  | Units |
|------------------------|------|------|-------|
| Total Dissolved Solids | 10.0 | 10.0 | mg/L  |

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**GC/MS VOA****Analysis Batch: 274325**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 600-191578-1     | POD1-W-190905      | Total/NA  | Water  | 8260B  |            |
| 600-191578-2     | POD2-W-190905      | Total/NA  | Water  | 8260B  |            |
| 600-191578-3     | POD3-W-190905      | Total/NA  | Water  | 8260B  |            |
| 600-191578-4     | POD4-W-190905      | Total/NA  | Water  | 8260B  |            |
| 600-191578-5     | EB1-W-190905       | Total/NA  | Water  | 8260B  |            |
| 600-191578-6     | DUP1-W-190905      | Total/NA  | Water  | 8260B  |            |
| 600-191578-7     | TB-1-W-190905      | Total/NA  | Water  | 8260B  |            |
| MB 600-274325/7  | Method Blank       | Total/NA  | Water  | 8260B  |            |
| LCS 600-274325/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |

**GC Semi VOA****Prep Batch: 275046**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method             | Prep Batch |
|---------------------|------------------------|-----------|--------|--------------------|------------|
| 600-191578-1        | POD1-W-190905          | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-191578-2        | POD2-W-190905          | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-191578-3        | POD3-W-190905          | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-191578-4        | POD4-W-190905          | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-191578-5        | EB1-W-190905           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| 600-191578-6        | DUP1-W-190905          | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| MB 600-275046/1-A   | Method Blank           | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| LCS 600-275046/2-A  | Lab Control Sample     | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |
| LCSD 600-275046/3-A | Lab Control Sample Dup | Total/NA  | Water  | TX_1005_W_Pr<br>ep |            |

**Analysis Batch: 275084**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 600-191578-1  | POD1-W-190905    | Total/NA  | Water  | 8015_M | 275046     |
| 600-191578-2  | POD2-W-190905    | Total/NA  | Water  | 8015_M | 275046     |
| 600-191578-3  | POD3-W-190905    | Total/NA  | Water  | 8015_M | 275046     |
| 600-191578-4  | POD4-W-190905    | Total/NA  | Water  | 8015_M | 275046     |
| 600-191578-5  | EB1-W-190905     | Total/NA  | Water  | 8015_M | 275046     |
| 600-191578-6  | DUP1-W-190905    | Total/NA  | Water  | 8015_M | 275046     |

**Analysis Batch: 275099**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 600-275046/1-A   | Method Blank           | Total/NA  | Water  | 8015_M | 275046     |
| LCS 600-275046/2-A  | Lab Control Sample     | Total/NA  | Water  | 8015_M | 275046     |
| LCSD 600-275046/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8015_M | 275046     |

**HPLC/IC****Analysis Batch: 274331**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 600-191578-2  | POD2-W-190905    | Total/NA  | Water  | 300.0  |            |
| 600-191578-3  | POD3-W-190905    | Total/NA  | Water  | 300.0  |            |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**HPLC/IC (Continued)****Analysis Batch: 274331 (Continued)**

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 600-191578-4      | POD4-W-190905      | Total/NA  | Water  | 300.0  |            |
| 600-191578-5      | EB1-W-190905       | Total/NA  | Water  | 300.0  |            |
| MB 600-274331/65  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 600-274331/66 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 600-191578-1 MS   | POD1-W-190905      | Total/NA  | Water  | 300.0  |            |
| 600-191578-1 MSD  | POD1-W-190905      | Total/NA  | Water  | 300.0  |            |

**Analysis Batch: 274458**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 600-191578-6     | DUP1-W-190905      | Total/NA  | Water  | 300.0  |            |
| MB 600-274458/4  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 600-274458/5 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

**Analysis Batch: 274588**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 600-191578-1     | POD1-W-190905      | Total/NA  | Water  | 300.0  |            |
| MB 600-274588/4  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 600-274588/5 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |

**General Chemistry****Analysis Batch: 274347**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 600-191578-1     | POD1-W-190905      | Total/NA  | Water  | SM 2540C |            |
| 600-191578-2     | POD2-W-190905      | Total/NA  | Water  | SM 2540C |            |
| 600-191578-3     | POD3-W-190905      | Total/NA  | Water  | SM 2540C |            |
| 600-191578-4     | POD4-W-190905      | Total/NA  | Water  | SM 2540C |            |
| 600-191578-5     | EB1-W-190905       | Total/NA  | Water  | SM 2540C |            |
| MB 600-274347/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 600-274347/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

**Analysis Batch: 274507**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 600-191578-6     | DUP1-W-190905      | Total/NA  | Water  | SM 2540C |            |
| MB 600-274507/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 600-274507/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: POD1-W-190905**  
**Date Collected: 09/05/19 17:34**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-1**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 20:09       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 12:53       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 274588       | 09/12/19 16:21       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274347       | 09/10/19 13:48       | TNL     | TAL HOU |

**Client Sample ID: POD2-W-190905**  
**Date Collected: 09/05/19 15:49**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-2**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 20:37       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 14:11       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 274331       | 09/11/19 11:13       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274347       | 09/10/19 13:48       | TNL     | TAL HOU |

**Client Sample ID: POD3-W-190905**  
**Date Collected: 09/05/19 16:45**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-3**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 21:05       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 14:51       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 274331       | 09/11/19 11:33       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274347       | 09/10/19 13:48       | TNL     | TAL HOU |

**Client Sample ID: POD4-W-190905**  
**Date Collected: 09/05/19 14:24**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-4**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 21:32       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 15:31       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 274331       | 09/11/19 11:53       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274347       | 09/10/19 13:48       | TNL     | TAL HOU |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

**Client Sample ID: EB1-W-190905**  
**Date Collected: 09/05/19 14:50**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-5**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 19:13       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 16:11       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 1               | 274331       | 09/11/19 12:13       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274347       | 09/10/19 13:48       | TNL     | TAL HOU |

**Client Sample ID: DUP1-W-190905**  
**Date Collected: 09/05/19 00:00**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-6**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B          |     | 1               | 274325       | 09/10/19 22:00       | KLV     | TAL HOU |
| Total/NA  | Prep       | TX_1005_W_Prep |     |                 | 275046       | 09/18/19 07:53       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 8015_M         |     | 1               | 275084       | 09/18/19 16:52       | W1N     | TAL HOU |
| Total/NA  | Analysis   | 300.0          |     | 100             | 274458       | 09/11/19 20:48       | SKR     | TAL HOU |
| Total/NA  | Analysis   | SM 2540C       |     | 1               | 274507       | 09/11/19 14:20       | TNL     | TAL HOU |

**Client Sample ID: TB-1-W-190905**  
**Date Collected: 09/05/19 00:00**  
**Date Received: 09/07/19 10:49**

**Lab Sample ID: 600-191578-7**  
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 274325       | 09/10/19 16:49       | KLV     | TAL HOU |

**Laboratory References:**

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

Eurofins TestAmerica, Houston

## Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: E Loving Field Onsurez #2

Job ID: 600-191578-1

### Laboratory: Eurofins TestAmerica, Houston

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

| Authority    | Program       | Identification Number | Expiration Date |
|--------------|---------------|-----------------------|-----------------|
| Arkansas DEQ | State         | 88-0759               | 08-04-20        |
| Arkansas DEQ | State Program | 19-040-0              | 08-04-20        |
| Louisiana    | NELAP         | 01967                 | 06-30-20        |
| Louisiana    | NELAP         | 01967                 | 06-30-20        |
| Oklahoma     | State         | 2019-073              | 09-01-20        |
| Oklahoma     | State Program | 2018-052              | 08-31-20        |
| Texas        | NELAP         | T104704223-18-23      | 10-31-19        |
| Texas        | NELAP         | T104704223-18-23      | 10-31-19        |
| USDA         | Federal       | P330-18-00130         | 04-30-21        |
| Utah         | NELAP         | TX000832019-5         | 07-31-20        |
| Utah         | NELAP         | TX000832019-5         | 07-31-20        |

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Eurofins TestAmerica, Houston



TestAmerica Houston

Loc: 600  
191578**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING**Sample Receipt Checklist**

JOB NUMBER: \_\_\_\_\_

Date/Time Received:

UNPACKED BY: MT

CLIENT:

Custody Seal Present:  YES  NO

CARRIER/DRIVER:

19 SEP 7 10:43

Number of Coolers Received: 3

| Cooler ID  | Temp Blank | Trip Blank | Observed Temp (°C) | Therm ID | Them CF | Corrected Temp (°C) |
|------------|------------|------------|--------------------|----------|---------|---------------------|
| <u>B14</u> | X / N      | Y / N      | 15                 | 608      | +1      | 14.8                |
| <u>B15</u> | Y / N      | Y / N      | 15.6               |          |         | 15.7                |
|            | Y / N      | Y / N      |                    |          |         |                     |
|            | Y / N      | Y / N      |                    |          |         |                     |
|            | 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  NOLABORATORY PRESERVATION OF SAMPLES REQUIRED:  NO  YESBase samples are >pH 12:  YES  NO Acid preserved are <pH 2:  YES  NO

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:  |
|--|
| <u>Analysis &amp; containers do not match. View NCM.</u> |
| <u>✓ 9/9/19</u>  |
| <u>TR16 4779 1263</u><br><u>7896 4779 1274</u>           |

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-191578-1

**Login Number:** 191578**List Source:** Eurofins TestAmerica, Houston**List Number:** 1**Creator:** Taylor, Jacquelyn R

| <b>Question</b>  | <b>Answer</b> | <b>Comment</b>                              |    |
|--|---------------|---|----|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A           | Lab does not accept radioactive samples.    | 6  |
| The cooler's custody seal, if present, is intact.                                | True          |   | 7  |
| Sample custody seals, if present, are intact.                                    | True          |   | 8  |
| The cooler or samples do not appear to have been compromised or tampered with.   | True          |   | 9  |
| Samples were received on ice.  | True          |   | 10 |
| Cooler Temperature is acceptable.  | True          |   | 11 |
| Cooler Temperature is recorded.  | True          | 0.7, 1.8                                    | 12 |
| COC is present.  | True          |   | 13 |
| COC is filled out in ink and legible.  | True          |   | 14 |
| COC is filled out with all pertinent information.                                | True          |   | 15 |
| Is the Field Sampler's name present on COC?                                      | True          |   | 16 |
| There are no discrepancies between the containers received and the COC.          | True          |   | 17 |
| 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. |    |

## APPENDIX H

### 2020 Groundwater Analytical Reports



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-205741-1  
Client Project/Site: Chevron Onsurez #2

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

Attn: Sarah Johnson

Sachin Kudchadkar

Authorized for release by:  
6/18/2020 1:31:59 PM  
Sachin Kudchadkar, Senior Project Manager  
(713)690-4444  
sachin.kudchadkar@testamericainc.com

### LINKS

Review your project  
results through

**Total Access**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://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 Onsurez #2

Laboratory Job ID: 600-205741-1

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## Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

| Method   | Method Description                           | Protocol | Laboratory |
|----------|--|----------|------------|
| 8260C    | Volatile Organic Compounds by GC/MS          | SW846    | TAL HOU    |
| 8015D    | Gasoline Range Organics (GRO) (GC)           | SW846    | TAL HOU    |
| 8015D    | 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    |
| 5030C    | Purge and Trap for Solids                    | SW846    | TAL HOU    |
| 5030C    | Purge and Trap Methanol Dilution             | 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

Eurofins TestAmerica, Houston

**Sample Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Solid  | 05/26/20 11:31 | 05/27/20 09:47 |          |
| 600-205741-2  | SB-1-S-1-2"-20200526  | Solid  | 05/26/20 11:40 | 05/27/20 09:47 |          |
| 600-205741-3  | SB-1-S-3-4"-20200526  | Solid  | 05/26/20 11:45 | 05/27/20 09:47 |          |
| 600-205741-4  | SB-1-S-5-6"-20200526  | Solid  | 05/26/20 11:50 | 05/27/20 09:47 |          |
| 600-205741-5  | SB-1-S-7-8"-20200526  | Solid  | 05/26/20 11:55 | 05/27/20 09:47 |          |
| 600-205741-6  | SB-1-S-9-10"-20200526 | Solid  | 05/26/20 12:00 | 05/27/20 09:47 |          |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Solid  | 05/26/20 12:20 | 05/27/20 09:47 |          |
| 600-205741-8  | SB-2-S-1-2"-20200526  | Solid  | 05/26/20 12:25 | 05/27/20 09:47 |          |
| 600-205741-9  | SB-2-S-3-4"-20200526  | Solid  | 05/26/20 12:30 | 05/27/20 09:47 |          |
| 600-205741-10 | SB-2-S-5-6"-20200526  | Solid  | 05/26/20 12:35 | 05/27/20 09:47 |          |
| 600-205741-11 | SB-2-S-7-8"-20200526  | Solid  | 05/26/20 12:40 | 05/27/20 09:47 |          |
| 600-205741-12 | SB-2-S-9-10"-20200526 | Solid  | 05/26/20 12:45 | 05/27/20 09:47 |          |

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Eurofins TestAmerica, Houston

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-0-6"-20200526**  
Date Collected: 05/26/20 11:31  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-1**  
Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000670 | U         | 0.00532   | 0.000670 | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Ethylbenzene   | 0.00109  | U         | 0.00532   | 0.00109  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Toluene        | 0.00147  | U         | 0.00532   | 0.00147  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |
| Xylenes, Total | 0.00120  | U         | 0.00532   | 0.00120  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 10:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac        |
|------------------------------|-----------|-----------|----------|----------|----------------|----------------|
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 61 - 130 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| 4-Bromofluorobenzene         | 108       |           | 57 - 140 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| Dibromofluoromethane         | 84        |           | 68 - 140 |          | 06/02/20 09:58 | 06/02/20 10:39 |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 |          | 06/02/20 09:58 | 06/02/20 10:39 |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 18.4   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 81.6   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-0-6"-20200526**

Date Collected: 05/26/20 11:31

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-1**

Matrix: Solid

Percent Solids: 81.6

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.728     | U         | 1.24      | 0.728 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 14:42 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 93        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 14:42 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.08      | U         | 10.1      | 2.08 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 13:50 | 1       |
| C28-C36                         | 26.1      |           | 10.1      | 6.09 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 13:22 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 114       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 13:50 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 767    | F1        | 24.5      | 3.27 | mg/Kg | ⌚ |          | 06/10/20 17:06 | 5       |

**Client Sample ID: SB-1-S-1-2'-20200526**

Date Collected: 05/26/20 11:40

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-2**

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000635  | U         | 0.00504   | 0.000635 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Ethylbenzene                 | 0.00103   | U         | 0.00504   | 0.00103  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Toluene                      | 0.00139   | U         | 0.00504   | 0.00139  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Xylenes, Total               | 0.00114   | U         | 0.00504   | 0.00114  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 18:01 | 1       |

Eurofins TestAmerica, Houston

**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-1-2'-20200526****Lab Sample ID: 600-205741-2**

Date Collected: 05/26/20 11:40  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Dibromofluoromethane | 82        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |
| Toluene-d8 (Surr)    | 86        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 18:01 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 2.9    |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 97.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-1-2'-20200526****Lab Sample ID: 600-205741-2**

Date Collected: 05/26/20 11:40  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 97.1

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

| Analyte                            | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.569  | U         | 0.970     | 0.569 | mg/Kg | ⊗ | 05/28/20 10:22 | 05/29/20 15:07 | 1       |

**Surrogate**

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene | 105       |           | 70 - 130 | 05/28/20 10:22 | 05/29/20 15:07 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| C28-C36 | 271    |           | 17.1      | 10.3 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/12/20 13:56 | 2       |

**Method: 8015D - Diesel Range Organics (DRO) (GC) - DL**

| Analyte                         | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 42.2   |           | 17.1      | 3.52 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/04/20 20:15 | 2       |

**Surrogate**

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 116       |           | 60 - 140 | 06/03/20 15:12 | 06/04/20 20:15 | 2       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 819    |           | 20.6      | 2.75 | mg/Kg | ⊗ |          | 06/10/20 18:07 | 5       |

**Client Sample ID: SB-1-S-3-4'-20200526****Lab Sample ID: 600-205741-3**

Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000625 | U         | 0.00496   | 0.000625 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Ethylbenzene   | 0.00101  | U         | 0.00496   | 0.00101  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Toluene        | 0.00137  | U         | 0.00496   | 0.00137  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Xylenes, Total | 0.00112  | U         | 0.00496   | 0.00112  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 18:24 | 1       |

**Surrogate**

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| 4-Bromofluorobenzene         | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Dibromofluoromethane         | 84        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |
| Toluene-d8 (Surr)            | 86        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 18:24 | 1       |

Eurofins TestAmerica, Houston

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-3-4'-20200526**  
Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-3**  
Matrix: Solid

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 10.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 89.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-3-4'-20200526**

Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-3**  
Matrix: Solid  
Percent Solids: 89.5

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.608     | U         | 1.04      | 0.608 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 15:57 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 109       |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 15:57 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.90      | U         | 9.22      | 1.90 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 15:00 | 1       |
| C28-C36                         | 55.0      |           | 9.22      | 5.55 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 14:30 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 115       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 15:00 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 429    |           | 22.3      | 2.98 | mg/Kg | ⌚ |          | 06/10/20 18:27 | 5       |

**Client Sample ID: SB-1-S-5-6'-20200526**

Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-4**  
Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000625  | U         | 0.00496   | 0.000625 | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Ethylbenzene                 | 0.00101   | U         | 0.00496   | 0.00101  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Toluene                      | 0.00137   | U         | 0.00496   | 0.00137  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Xylenes, Total               | 0.00112   | U         | 0.00496   | 0.00112  | mg/Kg |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 88        |           | 61 - 130  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| 4-Bromofluorobenzene         | 107       |           | 57 - 140  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Dibromofluoromethane         | 85        |           | 68 - 140  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130  |          |       |   | 06/02/20 09:58 | 06/02/20 11:02 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 19.0   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 81.0   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-5-6'-20200526****Lab Sample ID: 600-205741-4**

Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 81.0

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.719            | U                | 1.23          | 0.719 | mg/Kg | ⊗ | 05/28/20 10:22  | 05/29/20 16:21  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 99               |                  | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 16:21  | 1              |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 2.11             | U                | 10.2          | 2.11 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/04/20 15:35  | 1              |
| <b>C28-C36</b>                  | <b>36.7</b>      |                  | 10.2          | 6.16 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/12/20 15:37  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 100              |                  | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 15:35  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 195    |           | 24.7      | 3.29 | mg/Kg | ⊗ |          | 06/10/20 18:48 | 5       |

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|----------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.000626         | U                | 0.00497       | 0.000626 | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Ethylbenzene                 | 0.00101          | U                | 0.00497       | 0.00101  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Toluene                      | 0.00137          | U                | 0.00497       | 0.00137  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Xylenes, Total               | 0.00112          | U                | 0.00497       | 0.00112  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 83               |                  | 61 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| 4-Bromofluorobenzene         | 109              |                  | 57 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Dibromofluoromethane         | 84               |                  | 68 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |
| Toluene-d8 (Surr)            | 87               |                  | 50 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 19:10  | 1              |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 13.3   |           | 1.0       | 1.0 | %    | ⊗ |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 86.7   |           | 1.0       | 1.0 | %    | ⊗ |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 86.7

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.683            | U                | 1.17          | 0.683 | mg/Kg | ⊗ | 05/28/20 10:22  | 05/29/20 16:46  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 108              |                  | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 16:46  | 1              |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-7-8'-20200526****Lab Sample ID: 600-205741-5**

Date Collected: 05/26/20 11:55  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 86.7

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|------------------|------------------|---------------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.96             | U                | 9.52          | 1.96 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 16:10 | 1       |
| <b>C28-C36</b>                  | <b>27.3</b>      |                  | 9.52          | 5.74 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 16:12 | 1       |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   |                |                |         |
| <i>o-Terphenyl</i>              | 123              |                  | 60 - 140      |      |       |   |                |                |         |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 296    |           | 92.3      | 12.3 | mg/Kg | ⌚ |          | 06/10/20 19:08 | 20      |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Date Collected: 05/26/20 12:00  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                             | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------|------------------|------------------|---------------|----------|-------|---|----------------|----------------|---------|
| Benzene                             | 0.000615         | U                | 0.00488       | 0.000615 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Ethylbenzene                        | 0.000996         | U                | 0.00488       | 0.000996 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Toluene                             | 0.00135          | U                | 0.00488       | 0.00135  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| Xylenes, Total                      | 0.00110          | U                | 0.00488       | 0.00110  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 19:32 | 1       |
| <b>Surrogate</b>                    | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   |                |                |         |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 83               |                  | 61 - 130      |          |       |   |                |                |         |
| <i>4-Bromofluorobenzene</i>         | 103              |                  | 57 - 140      |          |       |   |                |                |         |
| <i>Dibromofluoromethane</i>         | 84               |                  | 68 - 140      |          |       |   |                |                |         |
| <i>Toluene-d8 (Surr)</i>            | 89               |                  | 50 - 130      |          |       |   |                |                |         |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 16.3   |           | 1.0       | 1.0 | %    | ⌚ |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 83.7   |           | 1.0       | 1.0 | %    | ⌚ |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-1-S-9-10'-20200526****Lab Sample ID: 600-205741-6**

Date Collected: 05/26/20 12:00  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 83.7

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.732            | U                | 1.25          | 0.732 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 17:10 | 1       |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   |                |                |         |
| <i>a,a,a-Trifluorotoluene</i>      | 107              |                  | 70 - 130      |       |       |   |                |                |         |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|------------------|------------------|---------------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.04             | U                | 9.89          | 2.04 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 12:06 | 1       |
| <b>C28-C36</b>                  | <b>24.6</b>      |                  | 9.89          | 5.96 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 16:47 | 1       |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   |                |                |         |
| <i>o-Terphenyl</i>              | 108              |                  | 60 - 140      |      |       |   |                |                |         |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-9-10'-20200526**  
**Date Collected: 05/26/20 12:00**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-6**  
**Matrix: Solid**  
**Percent Solids: 83.7**

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 519    |           | 95.5      | 12.8 | mg/Kg | ⊗ |          | 06/10/20 19:28 | 20      |

**Client Sample ID: SB-2-S-0-6"-20200526**  
**Date Collected: 05/26/20 12:20**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-7**  
**Matrix: Solid**

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000608 | U         | 0.00483   | 0.000608 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Ethylbenzene   | 0.000985 | U         | 0.00483   | 0.000985 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Toluene        | 0.00133  | U         | 0.00483   | 0.00133  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Xylenes, Total | 0.00109  | U         | 0.00483   | 0.00109  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 19:55 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| 4-Bromofluorobenzene         | 103       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Dibromofluoromethane         | 83        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 19:55 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 15.6   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 84.4   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-0-6"-20200526**

**Lab Sample ID: 600-205741-7**  
**Matrix: Solid**  
**Percent Solids: 84.4**

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.685     | U         | 1.17      | 0.685 | mg/Kg | ⊗ | 05/28/20 10:22 | 05/29/20 17:35 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 98        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 17:35 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.02      | U         | 9.82      | 2.02 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/04/20 17:21 | 1       |
| C28-C36                         | 25.7      |           | 9.82      | 5.92 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/12/20 18:33 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 102       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 17:21 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 177    |           | 23.7      | 3.16 | mg/Kg | ⊗ |          | 06/10/20 20:30 | 5       |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-1-2'-20200526**  
Date Collected: 05/26/20 12:25  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-8**  
Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000601 | U         | 0.00477   | 0.000601 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Ethylbenzene   | 0.000973 | U         | 0.00477   | 0.000973 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Toluene        | 0.00132  | U         | 0.00477   | 0.00132  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Xylenes, Total | 0.00108  | U         | 0.00477   | 0.00108  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:18 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 86        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Dibromofluoromethane         | 85        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 20:18 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 10.9   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 89.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-1-2'-20200526**

Date Collected: 05/26/20 12:25

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-8**

Matrix: Solid

Percent Solids: 89.1

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.670     | U         | 1.14      | 0.670 | mg/Kg | ⌚ | 05/28/20 10:22 | 05/29/20 17:59 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 99        |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/29/20 17:59 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 1.91      | U         | 9.26      | 1.91 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 17:56 | 1       |
| C28-C36                         | 23.6      |           | 9.26      | 5.58 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/12/20 19:08 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 120       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 17:56 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 319    |           | 22.4      | 3.00 | mg/Kg | ⌚ |          | 06/10/20 20:50 | 5       |

**Client Sample ID: SB-2-S-3-4'-20200526**

Date Collected: 05/26/20 12:30

Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-9**

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000636  | U         | 0.00505   | 0.000636 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Ethylbenzene                 | 0.00103   | U         | 0.00505   | 0.00103  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Toluene                      | 0.00139   | U         | 0.00505   | 0.00139  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Xylenes, Total               | 0.00114   | U         | 0.00505   | 0.00114  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 20:40 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-3-4'-20200526****Lab Sample ID: 600-205741-9**

Date Collected: 05/26/20 12:30  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 106       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Dibromofluoromethane | 83        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |
| Toluene-d8 (Surr)    | 87        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 20:40 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 20.3   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 79.7   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-3-4'-20200526****Lab Sample ID: 600-205741-9**

Date Collected: 05/26/20 12:30  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 79.7

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.751     | U         | 1.28      | 0.751 | mg/Kg | ⊗ | 05/28/20 10:22 | 05/30/20 08:13 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    |       |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 106       |           | 70 - 130  |       |       |   | 05/28/20 10:22 | 05/30/20 08:13 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.14      | U         | 10.4      | 2.14 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/04/20 18:30 | 1       |
| C28-C36                         | 26.6      |           | 10.4      | 6.26 | mg/Kg | ⊗ | 06/03/20 15:12 | 06/12/20 19:43 | 1       |
| Surrogate                       | %Recovery | Qualifier | Limits    |      |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 116       |           | 60 - 140  |      |       |   | 06/03/20 15:12 | 06/04/20 18:30 | 1       |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 891    |           | 100       | 13.4 | mg/Kg | ⊗ |          | 06/10/20 21:10 | 20      |

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.000633  | U         | 0.00502   | 0.000633 | mg/Kg |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Ethylbenzene                 | 0.00102   | U         | 0.00502   | 0.00102  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Toluene                      | 0.00139   | U         | 0.00502   | 0.00139  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Xylenes, Total               | 0.00113   | U         | 0.00502   | 0.00113  | mg/Kg |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    |          |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 87        |           | 61 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| 4-Bromofluorobenzene         | 106       |           | 57 - 140  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Dibromofluoromethane         | 84        |           | 68 - 140  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130  |          |       |   | 05/27/20 16:00 | 06/01/20 21:03 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 18.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

Matrix: Solid

**General Chemistry (Continued)**

| Analyte        | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Solids | 81.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Date Collected: 05/26/20 12:35  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 81.5

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

| Analyte                            | Result | Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|-----------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.771  | U         | 1.32      | 0.771 | mg/Kg | ⌚ | 05/29/20 11:16 | 05/30/20 08:37 | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene | 103       |           | 70 - 130 | 05/29/20 11:16 | 05/30/20 08:37 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.09   | U         | 10.2      | 2.09 | mg/Kg | ⌚ | 06/03/20 15:12 | 06/04/20 19:06 | 1       |

| C28-C36     | 24.7 |  | 10.2     | 6.12           | mg/Kg          | ⌚ | 06/03/20 15:12 | 06/12/20 20:18 | 1 |
|-------------|------|--|----------|----------------|----------------|---|----------------|----------------|---|
| o-Terphenyl | 110  |  | 60 - 140 | 06/03/20 15:12 | 06/04/20 19:06 | 1 |                |                |   |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------------|----------|---------|
| Chloride | 631    |           | 98.1      | 13.1 | mg/Kg | ⌚ | 06/10/20 21:31 |          | 20      |

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte        | Result   | Qualifier | MQL (Adj) | SDL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene        | 0.000633 | U         | 0.00502   | 0.000633 | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00502   | 0.00102  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Toluene        | 0.00139  | U         | 0.00502   | 0.00139  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00502   | 0.00113  | mg/Kg | ⌚ | 05/27/20 16:00 | 06/01/20 21:26 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 83        |           | 61 - 130 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| 4-Bromofluorobenzene         | 103       |           | 57 - 140 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Dibromofluoromethane         | 82        |           | 68 - 140 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |
| Toluene-d8 (Surr)            | 85        |           | 50 - 130 | 05/27/20 16:00 | 06/01/20 21:26 | 1       |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 17.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 82.5   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Date Collected: 05/26/20 12:40  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.5

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.696            | U                | 1.19          | 0.696 | mg/Kg | ⊗ | 05/29/20 11:16  | 05/30/20 09:01  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 100              |                  | 70 - 130      |       |       |   | 05/29/20 11:16  | 05/30/20 09:01  | 1              |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 3.11             | U                | 15.1          | 3.11 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/09/20 15:15  | 1              |
| <b>C28-C36</b>                  | <b>16.9</b>      |                  | 10.0          | 6.03 | mg/Kg | ⊗ | 06/03/20 15:12  | 06/12/20 23:10  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 84               |                  | 60 - 140      |      |       |   | 06/08/20 12:04  | 06/09/20 15:15  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 734    | F1        | 96.9      | 12.9 | mg/Kg | ⊗ |          | 06/10/20 21:51 | 20      |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
Date Received: 05/27/20 09:47

Matrix: Solid

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

| Analyte                      | Result           | Qualifier        | MQL (Adj)     | SDL      | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|----------|-------|---|-----------------|-----------------|----------------|
| Benzene                      | 0.000630         | U                | 0.00500       | 0.000630 | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Ethylbenzene                 | 0.00102          | U                | 0.00500       | 0.00102  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Toluene                      | 0.00138          | U                | 0.00500       | 0.00138  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Xylenes, Total               | 0.00113          | U                | 0.00500       | 0.00113  | mg/Kg | ⊗ | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |          |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 85               |                  | 61 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| 4-Bromofluorobenzene         | 108              |                  | 57 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Dibromofluoromethane         | 87               |                  | 68 - 140      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |
| Toluene-d8 (Surr)            | 89               |                  | 50 - 130      |          |       |   | 05/27/20 16:00  | 06/01/20 21:48  | 1              |

**General Chemistry**

| Analyte          | Result | Qualifier | MQL (Adj) | SDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------|-----------|-----------|-----|------|---|----------|----------------|---------|
| Percent Moisture | 17.9   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |
| Percent Solids   | 82.1   |           | 1.0       | 1.0 | %    |   |          | 06/01/20 09:21 | 1       |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.1

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

| Analyte                            | Result           | Qualifier        | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.675            | U                | 1.15          | 0.675 | mg/Kg | ⊗ | 05/29/20 11:16  | 05/30/20 09:26  | 1              |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 99               |                  | 70 - 130      |       |       |   | 05/29/20 11:16  | 05/30/20 09:26  | 1              |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Date Collected: 05/26/20 12:45  
 Date Received: 05/27/20 09:47

Matrix: Solid

Percent Solids: 82.1

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result           | Qualifier        | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|------------------|------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 36.9             |                  | 30.3          | 6.25 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/09/20 15:51  | 1              |
| C28-C36                         | 52.7             |                  | 30.3          | 18.3 | mg/Kg | ⊗ | 06/08/20 12:04  | 06/12/20 23:44  | 1              |
| <b>Surrogate</b>                | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| <i>o-Terphenyl</i>              | 86               |                  | 60 - 140      |      |       |   | 06/08/20 12:04  | 06/09/20 15:51  | 1              |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 556    |           | 48.7      | 6.50 | mg/Kg | ⊗ |          | 06/10/20 22:52 | 10      |

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

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

Eurofins TestAmerica, Houston

**Surrogate Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|-------------------|------------------------|--|-----------------|------------------|-----------------|
|                   |                        | DCA<br>(61-130)                                | BFB<br>(57-140) | DBFM<br>(68-140) | TOL<br>(50-130) |
| 600-205741-1      | SB-1-S-0-6"-20200526   | 90   | 108             | 84               | 85              |
| 600-205741-2      | SB-1-S-1-2'-20200526   | 87   | 106             | 82               | 86              |
| 600-205741-3      | SB-1-S-3-4'-20200526   | 85   | 106             | 84               | 86              |
| 600-205741-4      | SB-1-S-5-6'-20200526   | 88   | 107             | 85               | 87              |
| 600-205741-5      | SB-1-S-7-8'-20200526   | 83   | 109             | 84               | 87              |
| 600-205741-6      | SB-1-S-9-10'-20200526  | 83   | 103             | 84               | 89              |
| 600-205741-7      | SB-2-S-0-6"-20200526   | 85   | 103             | 83               | 85              |
| 600-205741-8      | SB-2-S-1-2'-20200526   | 86   | 110             | 85               | 91              |
| 600-205741-9      | SB-2-S-3-4'-20200526   | 85   | 106             | 83               | 87              |
| 600-205741-10     | SB-2-S-5-6'-20200526   | 87   | 106             | 84               | 87              |
| 600-205741-11     | SB-2-S-7-8'-20200526   | 83   | 103             | 82               | 85              |
| 600-205741-12     | SB-2-S-9-10'-20200526  | 85   | 108             | 87               | 89              |
| LCS 600-295568/3  | Lab Control Sample     | 85   | 111             | 88               | 92              |
| LCS 600-295613/3  | Lab Control Sample     | 90   | 110             | 88               | 90              |
| LCSD 600-295568/4 | Lab Control Sample Dup | 80   | 101             | 84               | 90              |
| LCSD 600-295613/4 | Lab Control Sample Dup | 93   | 110             | 89               | 90              |
| MB 600-295568/6   | Method Blank           | 85   | 108             | 83               | 89              |
| MB 600-295613/6   | Method Blank           | 103  | 107             | 88               | 87              |

**Surrogate Legend**

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

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |
|---------------------|------------------------|--|--|--|--|
|                     |                        | TFT1<br>(70-130)                               |  |  |  |
| 600-205741-1        | SB-1-S-0-6"-20200526   | 93   |  |  |  |
| 600-205741-2        | SB-1-S-1-2'-20200526   | 105  |  |  |  |
| 600-205741-3        | SB-1-S-3-4'-20200526   | 109  |  |  |  |
| 600-205741-4        | SB-1-S-5-6'-20200526   | 99   |  |  |  |
| 600-205741-5        | SB-1-S-7-8'-20200526   | 108  |  |  |  |
| 600-205741-6        | SB-1-S-9-10'-20200526  | 107  |  |  |  |
| 600-205741-7        | SB-2-S-0-6"-20200526   | 98   |  |  |  |
| 600-205741-8        | SB-2-S-1-2'-20200526   | 99   |  |  |  |
| 600-205741-9        | SB-2-S-3-4'-20200526   | 106  |  |  |  |
| 600-205741-10       | SB-2-S-5-6'-20200526   | 103  |  |  |  |
| 600-205741-11       | SB-2-S-7-8'-20200526   | 100  |  |  |  |
| 600-205741-12       | SB-2-S-9-10'-20200526  | 99   |  |  |  |
| LCS 600-295090/1-A  | Lab Control Sample     | 95   |  |  |  |
| LCSD 600-295090/2-A | Lab Control Sample Dup | 94   |  |  |  |
| MB 600-295090/3-A   | Method Blank           | 93   |  |  |  |

**Surrogate Legend**

TFT = a,a,a-Trifluorotoluene

Eurofins TestAmerica, Houston

**Surrogate Summary**

Client: ARCADIS U.S., Inc.

Job ID: 600-205741-1

Project/Site: Chevron Onsurez #2

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID       | Client Sample ID       | OTPH<br>(60-140) | Percent Surrogate Recovery (Acceptance Limits) |     |     |     |     |     |     |     |     |     |     |
|---------------------|------------------------|------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                     |                        |                  | 100  | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| 600-205741-1        | SB-1-S-0-6"-20200526   | 114              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-2 - DL   | SB-1-S-1-2'-20200526   | 116              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-3        | SB-1-S-3-4'-20200526   | 115              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-4        | SB-1-S-5-6'-20200526   | 100              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-5        | SB-1-S-7-8'-20200526   | 123              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6        | SB-1-S-9-10'-20200526  | 108              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 127              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 130              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | 125              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 121              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 127              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | 117              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-7        | SB-2-S-0-6"-20200526   | 102              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-8        | SB-2-S-1-2'-20200526   | 120              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-9        | SB-2-S-3-4'-20200526   | 116              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-10       | SB-2-S-5-6'-20200526   | 110              |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-11       | SB-2-S-7-8'-20200526   | 84               |  |     |     |     |     |     |     |     |     |     |     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | 86               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 73               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 132              |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-295786/2-A  | Lab Control Sample     | 98               |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-296079/2-A  | Lab Control Sample     | 101              |  |     |     |     |     |     |     |     |     |     |     |
| LCS 600-296079/2-A  | Lab Control Sample     | 114              |  |     |     |     |     |     |     |     |     |     |     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | 107              |  |     |     |     |     |     |     |     |     |     |     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | 111              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 138              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 123              |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-295786/1-A   | Method Blank           | 91               |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-296079/1-A   | Method Blank           | 98               |  |     |     |     |     |     |     |     |     |     |     |
| MB 600-296079/1-A   | Method Blank           | 95               |  |     |     |     |     |     |     |     |     |     |     |

**Surrogate Legend**

OTPH = o-Terphenyl

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8260C - Volatile Organic Compounds by GC/MS****Lab Sample ID: MB 600-295568/6****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB       |           | MQL (Adj) | SDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------|----------------|---------|
|                | Result   | Qualifier |           |          |       |   |          |                |         |
| Benzene        | 0.000630 | U         | 0.00500   | 0.000630 | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00500   | 0.00102  | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Toluene        | 0.00138  | U         | 0.00500   | 0.00138  | mg/Kg |   |          | 06/01/20 14:59 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00500   | 0.00113  | mg/Kg |   |          | 06/01/20 14:59 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 |          | 06/01/20 14:59 | 1       |
| 4-Bromofluorobenzene         | 108       |           | 57 - 140 |          | 06/01/20 14:59 | 1       |
| Dibromofluoromethane         | 83        |           | 68 - 140 |          | 06/01/20 14:59 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 50 - 130 |          | 06/01/20 14:59 | 1       |

**Lab Sample ID: LCS 600-295568/3****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCS Result | LCS Qualifier | Unit | D        | %Rec | %Rec. | Limits |
|---------------------|--------|---------|------------|---------------|------|----------|------|-------|--------|
|                     | Added  | Result  |            |               |      |          |      |       |        |
| Benzene             | 0.0500 | 0.04508 | mg/Kg      |               | 90   | 70 - 131 |      |       |        |
| Ethylbenzene        | 0.0500 | 0.04410 | mg/Kg      |               | 88   | 66 - 130 |      |       |        |
| Toluene             | 0.0500 | 0.04345 | mg/Kg      |               | 87   | 67 - 130 |      |       |        |
| Xylenes, Total      | 0.100  | 0.08787 | mg/Kg      |               | 88   | 63 - 130 |      |       |        |
| m-Xylene & p-Xylene | 0.0500 | 0.04359 | mg/Kg      |               | 87   | 64 - 130 |      |       |        |
| o-Xylene            | 0.0500 | 0.04428 | mg/Kg      |               | 89   | 62 - 130 |      |       |        |

| Surrogate                    | LCS       |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 85        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 111       |           | 57 - 140 |
| Dibromofluoromethane         | 88        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 92        |           | 50 - 130 |

**Lab Sample ID: LCSD 600-295568/4****Matrix: Solid****Analysis Batch: 295568**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte             | Spike  |         | LCSD Result | LCSD Qualifier | Unit | D        | %Rec | %Rec. | RPD | RPD Limit |
|---------------------|--------|---------|-------------|----------------|------|----------|------|-------|-----|-----------|
|                     | Added  | Result  |             |                |      |          |      |       |     |           |
| Benzene             | 0.0500 | 0.04399 | mg/Kg       |                | 88   | 70 - 131 |      |       | 2   | 30        |
| Ethylbenzene        | 0.0500 | 0.04094 | mg/Kg       |                | 82   | 66 - 130 |      |       | 7   | 30        |
| Toluene             | 0.0500 | 0.04170 | mg/Kg       |                | 83   | 67 - 130 |      |       | 4   | 30        |
| Xylenes, Total      | 0.100  | 0.08524 | mg/Kg       |                | 85   | 63 - 130 |      |       | 3   | 30        |
| m-Xylene & p-Xylene | 0.0500 | 0.04258 | mg/Kg       |                | 85   | 64 - 130 |      |       | 2   | 30        |
| o-Xylene            | 0.0500 | 0.04266 | mg/Kg       |                | 85   | 62 - 130 |      |       | 4   | 30        |

| Surrogate                    | LCSD      |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 101       |           | 57 - 140 |
| Dibromofluoromethane         | 84        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)****Lab Sample ID: MB 600-295613/6****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Method Blank  
Prep Type: Total/NA**

| Analyte        | MB       |           | MQL (Adj) | SDL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|-----------|----------|-------|---|----------|----------------|---------|
|                | Result   | Qualifier |           |          |       |   |          |                |         |
| Benzene        | 0.000630 | U         | 0.00500   | 0.000630 | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Ethylbenzene   | 0.00102  | U         | 0.00500   | 0.00102  | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Toluene        | 0.00138  | U         | 0.00500   | 0.00138  | mg/Kg |   |          | 06/02/20 09:54 | 1       |
| Xylenes, Total | 0.00113  | U         | 0.00500   | 0.00113  | mg/Kg |   |          | 06/02/20 09:54 | 1       |

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 103       |           | 61 - 130 |          | 06/02/20 09:54 | 1       |
| 4-Bromofluorobenzene         | 107       |           | 57 - 140 |          | 06/02/20 09:54 | 1       |
| Dibromofluoromethane         | 88        |           | 68 - 140 |          | 06/02/20 09:54 | 1       |
| Toluene-d8 (Surr)            | 87        |           | 50 - 130 |          | 06/02/20 09:54 | 1       |

**Lab Sample ID: LCS 600-295613/3****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Lab Control Sample  
Prep Type: Total/NA**

| Analyte             | Spike  |         | LCS Result | LCS Qualifier | Unit     | D | %Rec | %Rec. | Limits |
|---------------------|--------|---------|------------|---------------|----------|---|------|-------|--------|
|                     | Added  | Result  |            |               |          |   |      |       |        |
| Benzene             | 0.0500 | 0.04956 | mg/Kg      | 99            | 70 - 131 |   |      |       |        |
| Ethylbenzene        | 0.0500 | 0.04526 | mg/Kg      | 91            | 66 - 130 |   |      |       |        |
| Toluene             | 0.0500 | 0.04524 | mg/Kg      | 90            | 67 - 130 |   |      |       |        |
| Xylenes, Total      | 0.100  | 0.09186 | mg/Kg      | 92            | 63 - 130 |   |      |       |        |
| m-Xylene & p-Xylene | 0.0500 | 0.04628 | mg/Kg      | 93            | 64 - 130 |   |      |       |        |
| o-Xylene            | 0.0500 | 0.04558 | mg/Kg      | 91            | 62 - 130 |   |      |       |        |

| Surrogate                    | LCS       |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 90        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 |
| Dibromofluoromethane         | 88        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |

**Lab Sample ID: LCSD 600-295613/4****Matrix: Solid****Analysis Batch: 295613**
**Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA**

| Analyte             | Spike  |         | LCSD Result | LCSD Qualifier | Unit     | D | %Rec | %Rec. | RPD | RPD Limit |
|---------------------|--------|---------|-------------|----------------|----------|---|------|-------|-----|-----------|
|                     | Added  | Result  |             |                |          |   |      |       |     |           |
| Benzene             | 0.0500 | 0.04647 | mg/Kg       | 93             | 70 - 131 |   | 6    | 30    |     |           |
| Ethylbenzene        | 0.0500 | 0.04234 | mg/Kg       | 85             | 66 - 130 |   | 7    | 30    |     |           |
| Toluene             | 0.0500 | 0.04181 | mg/Kg       | 84             | 67 - 130 |   | 8    | 30    |     |           |
| Xylenes, Total      | 0.100  | 0.08456 | mg/Kg       | 85             | 63 - 130 |   | 8    | 30    |     |           |
| m-Xylene & p-Xylene | 0.0500 | 0.04263 | mg/Kg       | 85             | 64 - 130 |   | 8    | 30    |     |           |
| o-Xylene            | 0.0500 | 0.04193 | mg/Kg       | 84             | 62 - 130 |   | 8    | 30    |     |           |

| Surrogate                    | LCSD      |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 61 - 130 |
| 4-Bromofluorobenzene         | 110       |           | 57 - 140 |
| Dibromofluoromethane         | 89        |           | 68 - 140 |
| Toluene-d8 (Surr)            | 90        |           | 50 - 130 |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Gasoline Range Organics (GRO) (GC)****Lab Sample ID: MB 600-295090/3-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL   | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|-------------------------|-------------------------|---------------|-------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics [C6 - C10] | 0.586                   | U                       | 1.00          | 0.586 | mg/Kg | D | 05/28/20 10:22  | 05/29/20 09:01  | 1              |
| <b>Surrogate</b>                   | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |       |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| a,a,a-Trifluorotoluene             | 93                      |                         | 70 - 130      |       |       |   | 05/28/20 10:22  | 05/29/20 09:01  | 1              |

**Lab Sample ID: LCS 600-295090/1-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | Spike<br>Added           | LCS<br>Result            | LCS<br>Qualifier | Unit  | D | %Rec. | Limits   |
|------------------------------------|--------------------------|--------------------------|------------------|-------|---|-------|----------|
| Gasoline Range Organics [C6 - C10] | 5.04                     | 5.822                    |                  | mg/Kg | D | 116   | 70 - 130 |
| <b>Surrogate</b>                   | <b>LCS<br/>%Recovery</b> | <b>LCS<br/>Qualifier</b> | <b>Limits</b>    |       |   |       |          |
| a,a,a-Trifluorotoluene             | 95                       |                          | 70 - 130         |       |   |       |          |

**Lab Sample ID: LCSD 600-295090/2-A****Matrix: Solid****Analysis Batch: 295416**

| Analyte                            | Spike<br>Added            | LCSD<br>Result            | LCSD<br>Qualifier | Unit  | D | %Rec. | RPD      | Limit |
|------------------------------------|---------------------------|---------------------------|-------------------|-------|---|-------|----------|-------|
| Gasoline Range Organics [C6 - C10] | 5.04                      | 6.059                     |                   | mg/Kg | D | 120   | 70 - 130 | 4     |
| <b>Surrogate</b>                   | <b>LCSD<br/>%Recovery</b> | <b>LCSD<br/>Qualifier</b> | <b>Limits</b>     |       |   |       |          |       |
| a,a,a-Trifluorotoluene             | 94                        |                           | 70 - 130          |       |   |       |          |       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 600-295786/1-A****Matrix: Solid****Analysis Batch: 293250**

| Analyte                         | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|-------------------------|-------------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 1.70                    | U                       | 8.25          | 1.70 | mg/Kg | D | 06/03/20 15:12  | 06/04/20 10:46  | 1              |
| <b>Surrogate</b>                | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 138                     |                         | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 10:46  | 1              |

**Lab Sample ID: MB 600-295786/1-A****Matrix: Solid****Analysis Batch: 295826**

| Analyte                         | MB<br>Result            | MB<br>Qualifier         | MQL (Adj)     | SDL  | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|---------------------------------|-------------------------|-------------------------|---------------|------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 1.70                    | U                       | 8.25          | 1.70 | mg/Kg | D | 06/03/20 15:12  | 06/04/20 17:21  | 1              |
| <b>Surrogate</b>                | <b>MB<br/>%Recovery</b> | <b>MB<br/>Qualifier</b> | <b>Limits</b> |      |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| o-Terphenyl                     | 123                     |                         | 60 - 140      |      |       |   | 06/03/20 15:12  | 06/04/20 17:21  | 1              |

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 295786**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 295786**

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

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

Lab Sample ID: 600-205741-6 MS

Matrix: Solid

Analysis Batch: 293250

Client Sample ID: SB-1-S-9-10'-20200526

Prep Type: Total/NA

Prep Batch: 295786

| Surrogate   | MS        | MS       |
|-------------|-----------|----------|
| %Recovery   | Qualifier | Limits   |
| o-Terphenyl | 127       | 60 - 140 |

Lab Sample ID: 600-205741-6 MS

Matrix: Solid

Analysis Batch: 295826

Client Sample ID: SB-1-S-9-10'-20200526

Prep Type: Total/NA

Prep Batch: 295786

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] | 2.04          | U                | 79.4        | 67.78     |              | mg/Kg | ⊗ | 85    | 66 - 134 |

| Surrogate   | MS        | MS       |
|-------------|-----------|----------|
| %Recovery   | Qualifier | Limits   |
| o-Terphenyl | 130       | 60 - 140 |

Lab Sample ID: 600-205741-6 MS

Matrix: Solid

Analysis Batch: 296478

Client Sample ID: SB-1-S-9-10'-20200526

Prep Type: Total/NA

Prep Batch: 295786

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] | 4.95          | J                | 79.4        | 73.37     |              | mg/Kg | ⊗ | 86    | 66 - 134 |

| Surrogate   | MS        | MS       |
|-------------|-----------|----------|
| %Recovery   | Qualifier | Limits   |
| o-Terphenyl | 125       | 60 - 140 |

Lab Sample ID: 600-205741-6 MSD

Matrix: Solid

Analysis Batch: 293250

Client Sample ID: SB-1-S-9-10'-20200526

Prep Type: Total/NA

Prep Batch: 295786

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec. | RPD      | Limit |    |
|---------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|-------|----------|-------|----|
| Diesel Range Organics [C10-C28] | 2.04          | U                | 79.3        | 91.09      |               | mg/Kg | ⊗ | 115   | 66 - 134 | 4     | 30 |

| Surrogate   | MSD       | MSD      |
|-------------|-----------|----------|
| %Recovery   | Qualifier | Limits   |
| o-Terphenyl | 121       | 60 - 140 |

Lab Sample ID: 600-205741-6 MSD

Matrix: Solid

Analysis Batch: 295826

Client Sample ID: SB-1-S-9-10'-20200526

Prep Type: Total/NA

Prep Batch: 295786

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec. | RPD      | Limit |    |
|---------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|-------|----------|-------|----|
| Diesel Range Organics [C10-C28] | 2.04          | U                | 79.3        | 70.62      |               | mg/Kg | ⊗ | 89    | 66 - 134 | 4     | 30 |

| Surrogate   | MSD       | MSD      |
|-------------|-----------|----------|
| %Recovery   | Qualifier | Limits   |
| o-Terphenyl | 127       | 60 - 140 |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: 600-205741-6 MSD****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: SB-1-S-9-10'-20200526****Prep Type: Total/NA****Prep Batch: 295786**

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec.  | RPD      |
|---------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|--------|----------|
| Diesel Range Organics [C10-C28] | 4.95          | J                | 79.3        | 70.01      |               | mg/Kg | ⊗ | 82     | 66 - 134 |
| Surrogate                       | %Recovery     | MSD Qualifier    | MSD Limits  |            |               |       |   | Limits | Limit    |
| <i>o-Terphenyl</i>              | 117           |                  | 60 - 140    |            |               |       |   |        |          |

**Lab Sample ID: MB 600-296079/1-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 296079**

| 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 | D | 06/08/20 12:04 | 06/09/20 13:30 | 1       |
| Surrogate                       | %Recovery | MB Qualifier | MB Limits |      |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o-Terphenyl</i>              | 98        |              | 60 - 140  |      |       |   | 06/08/20 12:04 | 06/09/20 13:30 | 1       |

**Lab Sample ID: MB 600-296079/1-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 296079**

| 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 | D | 06/08/20 12:04 | 06/12/20 20:53 | 1       |
| C28-C36                         | 5.00      | U            | 8.30      | 5.00 | mg/Kg |   | 06/08/20 12:04 | 06/12/20 20:53 | 1       |
| Surrogate                       | %Recovery | MB Qualifier | MB Limits |      |       |   | Prepared       | Analyzed       | Dil Fac |
| <i>o-Terphenyl</i>              | 95        |              | 60 - 140  |      |       |   | 06/08/20 12:04 | 06/12/20 20:53 | 1       |

**Lab Sample ID: LCS 600-296079/2-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         |  | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|--|---------------|---------------|---------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] |  | 66.8          | 71.58         |               | mg/Kg |   | 107   | 66 - 134 |
| Surrogate                       |  | LCS %Recovery | LCS Qualifier | Limits        |       |   |       |          |
| <i>o-Terphenyl</i>              |  | 101           |               | 60 - 140      |       |   |       |          |

**Lab Sample ID: LCS 600-296079/2-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         |  | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec. | Limits   |
|---------------------------------|--|---------------|---------------|---------------|-------|---|-------|----------|
| Diesel Range Organics [C10-C28] |  | 66.8          | 59.49         |               | mg/Kg |   | 89    | 66 - 134 |
| Surrogate                       |  | LCS %Recovery | LCS Qualifier | Limits        |       |   |       |          |
| <i>o-Terphenyl</i>              |  | 114           |               | 60 - 140      |       |   |       |          |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: LCSD 600-296079/3-A****Matrix: Solid****Analysis Batch: 296178****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec.    | RPD |
|---------------------------------|----------------|----------------|----------------|-------|---|------|----------|-----|
| Diesel Range Organics [C10-C28] | 66.7           | 76.29          |                | mg/Kg |   | 114  | 66 - 134 | 6   |
| Surrogate                       | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      | Limits   | RPD |
| <i>o-Terphenyl</i>              | 107            |                | 60 - 140       |       |   |      |          |     |

**Lab Sample ID: LCSD 600-296079/3-A****Matrix: Solid****Analysis Batch: 296478****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 296079**

| Analyte                         | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec.    | RPD |
|---------------------------------|----------------|----------------|----------------|-------|---|------|----------|-----|
| Diesel Range Organics [C10-C28] | 66.7           | 59.92          |                | mg/Kg |   | 90   | 66 - 134 | 1   |
| Surrogate                       | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      | Limits   | RPD |
| <i>o-Terphenyl</i>              | 111            |                | 60 - 140       |       |   |      |          |     |

**Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 600-296298/1-A****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: Method Blank****Prep Type: Soluble**

| Analyte  | MB Result | MB Qualifier | MQL (Adj) | SDL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----------|-------|-------|---|----------|----------------|---------|
| Chloride | 0.534     | U            | 4.00      | 0.534 | mg/Kg |   |          | 06/10/20 09:17 | 1       |

**Lab Sample ID: LCS 600-296298/2-A****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec.    |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 200         | 181.7      |               | mg/Kg |   | 91   | 90 - 110 |

**Lab Sample ID: 600-205741-1 MS****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-1-S-0-6"-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|
| Chloride | 767           | F1               | 613         | 1517      | F1           | mg/Kg | ⊗ | 122  |

**Lab Sample ID: 600-205741-1 MSD****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-1-S-0-6"-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | RPD |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-----|
| Chloride | 767           | F1               | 613         | 1565       | F1            | mg/Kg | ⊗ | 130  | 3   |

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Method: 300.0 - Anions, Ion Chromatography (Continued)****Lab Sample ID: 600-205741-11 MS****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-------|
| Chloride | 734           | F1               | 2420        | 2316      | F1           | mg/Kg | ⊗ | 65   | 80 - 120     |     |       |

**Lab Sample ID: 600-205741-11 MSD****Matrix: Solid****Analysis Batch: 296246****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Chloride | 734           | F1               | 2420        | 2401       | F1            | mg/Kg | ⊗ | 69   | 80 - 120     | 4   | 20    |

**Method: 2540B - Percent Moisture****Lab Sample ID: 600-205741-8 DU****Matrix: Solid****Analysis Batch: 295535****Client Sample ID: SB-2-S-1-2'-20200526****Prep Type: Total/NA**

| Analyte          | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit | D |  | RPD | Limit |
|------------------|---------------|------------------|--|-----------|--------------|------|---|--|-----|-------|
| Percent Moisture | 10.9          |                  |  | 10.5      |              | %    |   |  | 4   | 20    |
| Percent Solids   | 89.1          |                  |  | 89.5      |              | %    |   |  | 0.4 | 20    |

**Lab Sample ID: 600-205741-11 DU****Matrix: Solid****Analysis Batch: 295535****Client Sample ID: SB-2-S-7-8'-20200526****Prep Type: Total/NA**

| Analyte          | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit | D |  | RPD | Limit |
|------------------|---------------|------------------|--|-----------|--------------|------|---|--|-----|-------|
| Percent Moisture | 17.5          |                  |  | 16.9      |              | %    |   |  | 4   | 20    |
| Percent Solids   | 82.5          |                  |  | 83.1      |              | %    |   |  | 0.7 | 20    |

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**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

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

Prep: 5030C

| 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: 8015D - Gasoline Range Organics (GRO) (GC)**

Prep: 5030C

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

**Method: 8015D - 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 |

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Leach: DI Leach

| Analyte  | MQL  | MDL   | Units |
|----------|------|-------|-------|
| Chloride | 4.00 | 0.534 | mg/Kg |

**General Chemistry**

| Analyte          | MQL | MDL | Units |
|------------------|-----|-----|-------|
| Percent Moisture | 1.0 | 1.0 | %     |
| Percent Solids   | 1.0 | 1.0 | %     |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC/MS VOA****Prep Batch: 295295**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-8  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-10 | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-11 | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-12 | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |

**Analysis Batch: 295568**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-2      | SB-1-S-1-2'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-3      | SB-1-S-3-4'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-5      | SB-1-S-7-8'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-6      | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-7      | SB-2-S-0-6"-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-8      | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-9      | SB-2-S-3-4'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-10     | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-11     | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8260C  | 295295     |
| 600-205741-12     | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8260C  | 295295     |
| MB 600-295568/6   | Method Blank           | Total/NA  | Solid  | 8260C  |            |
| LCS 600-295568/3  | Lab Control Sample     | Total/NA  | Solid  | 8260C  |            |
| LCSD 600-295568/4 | Lab Control Sample Dup | Total/NA  | Solid  | 8260C  |            |

**Analysis Batch: 295613**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-1      | SB-1-S-0-6"-20200526   | Total/NA  | Solid  | 8260C  | 295651     |
| 600-205741-4      | SB-1-S-5-6'-20200526   | Total/NA  | Solid  | 8260C  | 295651     |
| MB 600-295613/6   | Method Blank           | Total/NA  | Solid  | 8260C  |            |
| LCS 600-295613/3  | Lab Control Sample     | Total/NA  | Solid  | 8260C  |            |
| LCSD 600-295613/4 | Lab Control Sample Dup | Total/NA  | Solid  | 8260C  |            |

**Prep Batch: 295651**

| Lab Sample ID | Client Sample ID     | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-4  | SB-1-S-5-6'-20200526 | Total/NA  | Solid  | 5030C  |            |

**GC VOA****Prep Batch: 295090**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-4  | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 5030C  |            |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 5030C  |            |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 5030C  |            |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC VOA (Continued)****Prep Batch: 295090 (Continued)**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-8        | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-9        | SB-2-S-3-4'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-10       | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 5030C  |            |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 5030C  |            |
| MB 600-295090/3-A   | Method Blank           | Total/NA  | Solid  | 5030C  |            |
| LCS 600-295090/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5030C  |            |
| LCSD 600-295090/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5030C  |            |

**Analysis Batch: 295416**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-1        | SB-1-S-0-6"-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-2        | SB-1-S-1-2'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-3        | SB-1-S-3-4'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-4        | SB-1-S-5-6'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-5        | SB-1-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-6        | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-7        | SB-2-S-0-6"-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-8        | SB-2-S-1-2'-20200526   | Total/NA  | Solid  | 8015D  | 295090     |
| MB 600-295090/3-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 295090     |
| LCS 600-295090/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 295090     |
| LCSD 600-295090/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 295090     |

**Analysis Batch: 295498**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-10 | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-11 | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295090     |
| 600-205741-12 | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295090     |

**GC Semi VOA****Analysis Batch: 293250**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-2 - DL  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC Semi VOA****Prep Batch: 295786**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-2 - DL  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 3546   |            |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 3546   |            |
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 3546   |            |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 3546   |            |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 3546   |            |

**Analysis Batch: 295826**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| MB 600-295786/1-A  | Method Blank          | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-295786/2-A | Lab Control Sample    | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MS    | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD   | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |

**Prep Batch: 296079**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 3546   |            |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 3546   |            |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 3546   |            |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 3546   |            |

**Analysis Batch: 296178**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 296079     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 296079     |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 296079     |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 296079     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 296079     |

**Analysis Batch: 296478**

| Lab Sample ID | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|---------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1  | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-2  | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-3  | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-4  | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-5  | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6  | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-7  | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-8  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-9  | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |

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**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**GC Semi VOA (Continued)****Analysis Batch: 296478 (Continued)**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205741-10       | SB-2-S-5-6'-20200526   | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-11       | SB-2-S-7-8'-20200526   | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-12       | SB-2-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 296079     |
| MB 600-295786/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 295786     |
| MB 600-296079/1-A   | Method Blank           | Total/NA  | Solid  | 8015D  | 296079     |
| LCS 600-295786/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 295786     |
| LCS 600-296079/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015D  | 296079     |
| LCSD 600-296079/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015D  | 296079     |
| 600-205741-6 MS     | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |
| 600-205741-6 MSD    | SB-1-S-9-10'-20200526  | Total/NA  | Solid  | 8015D  | 295786     |

**HPLC/IC****Analysis Batch: 296246**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-12      | SB-2-S-9-10'-20200526 | Soluble   | Solid  | 300.0  | 296298     |
| MB 600-296298/1-A  | Method Blank          | Soluble   | Solid  | 300.0  | 296298     |
| LCS 600-296298/2-A | Lab Control Sample    | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-1 MS    | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-1 MSD   | SB-1-S-0-6"-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11 MS   | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |
| 600-205741-11 MSD  | SB-2-S-7-8'-20200526  | Soluble   | Solid  | 300.0  | 296298     |

**Leach Batch: 296298**

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|-----------------------|-----------|--------|----------|------------|
| 600-205741-1       | SB-1-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-2       | SB-1-S-1-2'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-3       | SB-1-S-3-4'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-4       | SB-1-S-5-6'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-5       | SB-1-S-7-8'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-6       | SB-1-S-9-10'-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-7       | SB-2-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-8       | SB-2-S-1-2'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-9       | SB-2-S-3-4'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-10      | SB-2-S-5-6'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-11      | SB-2-S-7-8'-20200526  | Soluble   | Solid  | DI Leach |            |
| 600-205741-12      | SB-2-S-9-10'-20200526 | Soluble   | Solid  | DI Leach |            |
| MB 600-296298/1-A  | Method Blank          | Soluble   | Solid  | DI Leach |            |
| LCS 600-296298/2-A | Lab Control Sample    | Soluble   | Solid  | DI Leach |            |
| 600-205741-1 MS    | SB-1-S-0-6"-20200526  | Soluble   | Solid  | DI Leach |            |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**HPLC/IC (Continued)****Leach Batch: 296298 (Continued)**

| Lab Sample ID     | Client Sample ID     | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|----------------------|-----------|--------|----------|------------|
| 600-205741-1 MSD  | SB-1-S-0-6"-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-11 MS  | SB-2-S-7-8'-20200526 | Soluble   | Solid  | DI Leach |            |
| 600-205741-11 MSD | SB-2-S-7-8'-20200526 | Soluble   | Solid  | DI Leach |            |

**General Chemistry****Analysis Batch: 295535**

| Lab Sample ID    | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|------------------|-----------------------|-----------|--------|--------|------------|
| 600-205741-1     | SB-1-S-0-6"-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-2     | SB-1-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-3     | SB-1-S-3-4'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-4     | SB-1-S-5-6'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-5     | SB-1-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-6     | SB-1-S-9-10'-20200526 | Total/NA  | Solid  | 2540B  |            |
| 600-205741-7     | SB-2-S-0-6"-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-8     | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-9     | SB-2-S-3-4'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-10    | SB-2-S-5-6'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-11    | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-12    | SB-2-S-9-10'-20200526 | Total/NA  | Solid  | 2540B  |            |
| 600-205741-8 DU  | SB-2-S-1-2'-20200526  | Total/NA  | Solid  | 2540B  |            |
| 600-205741-11 DU | SB-2-S-7-8'-20200526  | Total/NA  | Solid  | 2540B  |            |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-0-6"-20200526****Lab Sample ID: 600-205741-1**

Date Collected: 05/26/20 11:31

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295651       | 06/02/20 09:58       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295613       | 06/02/20 10:39       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-0-6"-20200526****Lab Sample ID: 600-205741-1**

Date Collected: 05/26/20 11:31

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 81.6

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 14:42       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 13:50       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 13:22       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 17:06       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-1-2'-20200526****Lab Sample ID: 600-205741-2**

Date Collected: 05/26/20 11:40

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 18:01       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-1-2'-20200526****Lab Sample ID: 600-205741-2**

Date Collected: 05/26/20 11:40

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 97.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 15:07       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         | DL  |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        | DL  | 2               | 293250       | 06/04/20 20:15       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 2               | 296478       | 06/12/20 13:56       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:07       | W1N     | TAL HOU |

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**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-3-4'-20200526**  
Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-3**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 18:24       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-3-4'-20200526**  
Date Collected: 05/26/20 11:45  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-3**  
Matrix: Solid  
Percent Solids: 89.5

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 15:57       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 15:00       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 14:30       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:27       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-5-6'-20200526**  
Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-4**  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295651       | 06/02/20 09:58       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295613       | 06/02/20 11:02       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-5-6'-20200526**  
Date Collected: 05/26/20 11:50  
Date Received: 05/27/20 09:47

**Lab Sample ID: 600-205741-4**  
Matrix: Solid  
Percent Solids: 81.0

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 16:21       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 15:35       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 15:37       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 18:48       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-1-S-7-8'-20200526**  
**Date Collected: 05/26/20 11:55**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-5**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:10       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-7-8'-20200526**  
**Date Collected: 05/26/20 11:55**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-5**  
**Matrix: Solid**  
**Percent Solids: 86.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 16:46       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 16:10       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 16:12       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 19:08       | W1N     | TAL HOU |

**Client Sample ID: SB-1-S-9-10'-20200526**  
**Date Collected: 05/26/20 12:00**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-6**  
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:32       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-1-S-9-10'-20200526**  
**Date Collected: 05/26/20 12:00**  
**Date Received: 05/27/20 09:47**

**Lab Sample ID: 600-205741-6**  
**Matrix: Solid**  
**Percent Solids: 83.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:10       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 12:06       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 16:47       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 19:28       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-0-6"-20200526****Lab Sample ID: 600-205741-7**

Date Collected: 05/26/20 12:20

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 19:55       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-0-6"-20200526****Lab Sample ID: 600-205741-7**

Date Collected: 05/26/20 12:20

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 84.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:35       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 17:21       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 18:33       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 20:30       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-1-2'-20200526****Lab Sample ID: 600-205741-8**

Date Collected: 05/26/20 12:25

Matrix: Solid

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 20:18       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-1-2'-20200526****Lab Sample ID: 600-205741-8**

Date Collected: 05/26/20 12:25

Matrix: Solid

Date Received: 05/27/20 09:47

Percent Solids: 89.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295416       | 05/29/20 17:59       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 17:56       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 19:08       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 5               | 296246       | 06/10/20 20:50       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-3-4'-20200526****Lab Sample ID: 600-205741-9**

Matrix: Solid

Date Collected: 05/26/20 12:30

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 20:40       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-3-4'-20200526****Lab Sample ID: 600-205741-9**

Matrix: Solid

Date Collected: 05/26/20 12:30

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/28/20 10:22       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 08:13       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 18:30       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 19:43       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:10       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Matrix: Solid

Date Collected: 05/26/20 12:35

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:03       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-5-6'-20200526****Lab Sample ID: 600-205741-10**

Matrix: Solid

Date Collected: 05/26/20 12:35

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 08:37       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 293250       | 06/04/20 19:06       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 20:18       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:31       | W1N     | TAL HOU |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Matrix: Solid

Date Collected: 05/26/20 12:40

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:26       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-7-8'-20200526****Lab Sample ID: 600-205741-11**

Matrix: Solid

Date Collected: 05/26/20 12:40

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 09:01       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296178       | 06/09/20 15:15       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 295786       | 06/03/20 15:12       | SMB     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 23:10       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 20              | 296246       | 06/10/20 21:51       | W1N     | TAL HOU |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Matrix: Solid

Date Collected: 05/26/20 12:45

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295295       | 05/27/20 16:00       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 8260C        |     | 1               | 295568       | 06/01/20 21:48       | KLV     | TAL HOU |
| Total/NA  | Analysis   | 2540B        |     | 1               | 295535       | 06/01/20 09:21       | AAZ     | TAL HOU |

**Client Sample ID: SB-2-S-9-10'-20200526****Lab Sample ID: 600-205741-12**

Matrix: Solid

Date Collected: 05/26/20 12:45

Date Received: 05/27/20 09:47

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5030C        |     |                 | 295090       | 05/29/20 11:16       | WS1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295498       | 05/30/20 09:26       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296178       | 06/09/20 15:51       | RJV     | TAL HOU |
| Total/NA  | Prep       | 3546         |     |                 | 296079       | 06/08/20 12:04       | EAT     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/12/20 23:44       | RJV     | TAL HOU |
| Soluble   | Leach      | DI Leach     |     |                 | 296298       | 06/10/20 14:13       | DTN     | TAL HOU |
| Soluble   | Analysis   | 300.0        |     | 10              | 296246       | 06/10/20 22:52       | W1N     | TAL HOU |

**Laboratory References:**

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

Eurofins TestAmerica, Houston

## Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Chevron Onsurez #2

Job ID: 600-205741-1

### 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   |
| 8015D           | 3546        | Solid  | C28-C36          |



 eurofins Environment Testing America

Environmental Testing  
Appendix

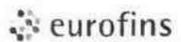
Chain of Custody Record

Eurofins TestAmerica, Houston

6310 Rothway Street  
Houston, TX 77040

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

Chain of Cust  
Steinmann Justin 6019 851 8792

Loc: 600  
205741Environment Testing  
TestAmerica

Eurofins TestAmerica Houston

**Sample Receipt Checklist**

20 MAY 27 9:47

JOB NUMBER: \_\_\_\_\_

Date/Time Received: \_\_\_\_\_

UNPACKED BY: \_\_\_\_\_

CLIENT: \_\_\_\_\_

CARRIER/DRIVER: \_\_\_\_\_

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) |
|-----------|------------|------------|--------------------|----------|----------|---------------------|
| 8726      | Y / N      | Y / N      | 1.9                | 678      | -0.1     | 1.8                 |
|           | 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  NOLABORATORY PRESERVATION OF SAMPLES REQUIRED:  NO  YESBase samples are >pH 12:  YES  NO Acid preserved are <pH 2:  YES  NOTX1005 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# 1001743 |

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-205741-1

**Login Number: 205741****List Source: Eurofins TestAmerica, Houston****List Number: 1****Creator: Rubio, Yuri**

| <b>Question</b>  | <b>Answer</b> | <b>Comment</b>                              |
|--|---------------|---|
| 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   |
| 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. |



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 600-205909-1  
Client Project/Site: Chevron Onsurez #2

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

Attn: Sarah Johnson

Sachin Kudchadkar

Authorized for release by:  
6/18/2020 1:27:12 PM  
Sachin Kudchadkar, Senior Project Manager  
(713)690-4444  
sachin.kudchadkar@testamericainc.com

### LINKS

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

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Laboratory Job ID: 600-205909-1

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**Method Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

| <b>Method</b> | <b>Method Description</b>                    | <b>Protocol</b> | <b>Laboratory</b> |
|---------------|--|-----------------|-------------------|
| 8260C         | Volatile Organic Compounds by GC/MS          | SW846           | TAL HOU           |
| 8015D         | Gasoline Range Organics (GRO) (GC)           | SW846           | TAL HOU           |
| 8015D         | Diesel Range Organics (DRO) (GC)             | SW846           | TAL HOU           |
| 300.0         | Anions, Ion Chromatography                   | MCAWW           | TAL HOU           |
| 3510C         | Liquid-Liquid Extraction (Separatory Funnel) | SW846           | TAL HOU           |
| 5030C         | Purge and Trap                               | SW846           | TAL HOU           |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.  
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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 Onsurez #2

Job ID: 600-205909-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 600-205909-1  | POD-2-W-20200529 | Water  | 05/29/20 12:41 | 05/30/20 10:26 |          |
| 600-205909-2  | DUP-1-W-20200529 | Water  | 05/29/20 00:00 | 05/30/20 10:26 |          |
| 600-205909-3  | POD-3-W-20200529 | Water  | 05/29/20 13:50 | 05/30/20 10:26 |          |

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**Client Sample ID: POD-2-W-20200529**  
**Date Collected: 05/29/20 12:41**  
**Date Received: 05/30/20 10:26**

**Lab Sample ID: 600-205909-1**  
**Matrix: Water**

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
| Benzene        | 0.560  | U         | 5.00      | 0.560 | ug/L |   |          | 06/02/20 14:12 | 1       |
| Ethylbenzene   | 1.29   | U         | 5.00      | 1.29  | ug/L |   |          | 06/02/20 14:12 | 1       |
| Toluene        | 0.550  | U         | 5.00      | 0.550 | ug/L |   |          | 06/02/20 14:12 | 1       |
| Xylenes, Total | 1.98   | U         | 5.00      | 1.98  | ug/L |   |          | 06/02/20 14:12 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 76        |           | 50 - 134 |          | 06/02/20 14:12 | 1       |
| 4-Bromofluorobenzene         | 97        |           | 67 - 139 |          | 06/02/20 14:12 | 1       |
| Dibromofluoromethane         | 82        |           | 62 - 130 |          | 06/02/20 14:12 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 70 - 130 |          | 06/02/20 14:12 | 1       |

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

| Analyte                            | Result    | Qualifier | MQL (Adj) | SDL      | Unit           | D       | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|-----------|----------|----------------|---------|----------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.0230    | U         | 0.0500    | 0.0230   | mg/L           |         |          | 06/02/20 11:22 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits    | Prepared | Analyzed       | Dil Fac |          |                |         |
| <i>a,a,a-Trifluorotoluene</i>      | 101       |           | 70 - 130  |          | 06/02/20 11:22 | 1       |          |                |         |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result    | Qualifier | MQL (Adj) | SDL      | Unit           | D              | Prepared | Analyzed       | Dil Fac        |
|---------------------------------|-----------|-----------|-----------|----------|----------------|----------------|----------|----------------|----------------|
| Diesel Range Organics [C10-C28] | 0.0464    | U         | 0.258     | 0.0464   | mg/L           |                |          | 06/05/20 08:55 | 06/13/20 03:07 |
| C28-C36                         | 0.155     | U         | 0.258     | 0.155    | mg/L           |                |          | 06/05/20 08:55 | 06/13/20 03:07 |
| Surrogate                       | %Recovery | Qualifier | Limits    | Prepared | Analyzed       | Dil Fac        |          |                |                |
| <i>o-Terphenyl</i>              | 70        |           | 60 - 140  |          | 06/05/20 08:55 | 06/13/20 03:07 | 1        |                |                |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 992    | F1        | 40.0      | 5.34 | mg/L |   |          | 06/08/20 15:30 | 100     |

**Client Sample ID: DUP-1-W-20200529****Lab Sample ID: 600-205909-2**

Matrix: Water

Date Collected: 05/29/20 00:00

Date Received: 05/30/20 10:26

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

| Analyte                      | Result    | Qualifier | MQL (Adj) | SDL      | Unit           | D       | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|-----------|----------|----------------|---------|----------|----------------|---------|
| Benzene                      | 0.560     | U         | 5.00      | 0.560    | ug/L           |         |          | 06/02/20 14:39 | 1       |
| Ethylbenzene                 | 1.29      | U         | 5.00      | 1.29     | ug/L           |         |          | 06/02/20 14:39 | 1       |
| Toluene                      | 0.550     | U         | 5.00      | 0.550    | ug/L           |         |          | 06/02/20 14:39 | 1       |
| Xylenes, Total               | 1.98      | U         | 5.00      | 1.98     | ug/L           |         |          | 06/02/20 14:39 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits    | Prepared | Analyzed       | Dil Fac |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 73        |           | 50 - 134  |          | 06/02/20 14:39 | 1       |          |                |         |
| 4-Bromofluorobenzene         | 98        |           | 67 - 139  |          | 06/02/20 14:39 | 1       |          |                |         |
| Dibromofluoromethane         | 84        |           | 62 - 130  |          | 06/02/20 14:39 | 1       |          |                |         |
| Toluene-d8 (Surr)            | 102       |           | 70 - 130  |          | 06/02/20 14:39 | 1       |          |                |         |

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

| Analyte                            | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|-----------|--------|------|---|----------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.0230 | U         | 0.0500    | 0.0230 | mg/L |   |          | 06/02/20 11:47 | 1       |

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**Client Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**Client Sample ID: DUP-1-W-20200529****Lab Sample ID: 600-205909-2**

Matrix: Water

Date Collected: 05/29/20 00:00  
Date Received: 05/30/20 10:26

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene | 102       |           | 70 - 130 |          | 06/02/20 11:47 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|--------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.0459 | U         | 0.255     | 0.0459 | mg/L |   | 06/05/20 08:55 | 06/13/20 04:14 | 1       |
| C28-C36                         | 0.153  | U         | 0.255     | 0.153  | mg/L |   | 06/05/20 08:55 | 06/13/20 04:14 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac        |
|-------------|-----------|-----------|----------|----------|----------------|----------------|
| o-Terphenyl | 67        |           | 60 - 140 |          | 06/05/20 08:55 | 06/13/20 04:14 |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------------|----------|---------|
| Chloride | 1440   |           | 40.0      | 5.34 | mg/L |   | 06/08/20 16:03 |          | 100     |

**Client Sample ID: POD-3-W-20200529****Lab Sample ID: 600-205909-3**

Matrix: Water

Date Collected: 05/29/20 13:50  
Date Received: 05/30/20 10:26

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

| Analyte        | Result | Qualifier | MQL (Adj) | SDL   | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------------|----------|---------|
| Benzene        | 0.560  | U         | 5.00      | 0.560 | ug/L |   | 06/02/20 15:05 |          | 1       |
| Ethylbenzene   | 1.29   | U         | 5.00      | 1.29  | ug/L |   | 06/02/20 15:05 |          | 1       |
| Toluene        | 0.550  | U         | 5.00      | 0.550 | ug/L |   | 06/02/20 15:05 |          | 1       |
| Xylenes, Total | 1.98   | U         | 5.00      | 1.98  | ug/L |   | 06/02/20 15:05 |          | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 77        |           | 50 - 134 |          | 06/02/20 15:05 | 1       |
| 4-Bromofluorobenzene         | 89        |           | 67 - 139 |          | 06/02/20 15:05 | 1       |
| Dibromofluoromethane         | 84        |           | 62 - 130 |          | 06/02/20 15:05 | 1       |
| Toluene-d8 (Surr)            | 102       |           | 70 - 130 |          | 06/02/20 15:05 | 1       |

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

| Analyte                            | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared       | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-----------|--------|------|---|----------------|----------|---------|
| Gasoline Range Organics [C6 - C10] | 0.0230 | U         | 0.0500    | 0.0230 | mg/L |   | 06/02/20 12:11 |          | 1       |

| Surrogate              | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene | 101       |           | 70 - 130 |          | 06/02/20 12:11 | 1       |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

| Analyte                         | Result | Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|-----------|--------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.0459 | U         | 0.255     | 0.0459 | mg/L |   | 06/05/20 08:55 | 06/13/20 04:47 | 1       |
| C28-C36                         | 0.153  | U         | 0.255     | 0.153  | mg/L |   | 06/05/20 08:55 | 06/13/20 04:47 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac        |
|-------------|-----------|-----------|----------|----------|----------------|----------------|
| o-Terphenyl | 64        |           | 60 - 140 |          | 06/05/20 08:55 | 06/13/20 04:47 |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | Result | Qualifier | MQL (Adj) | SDL  | Unit | D | Prepared       | Analyzed | Dil Fac |
|----------|--------|-----------|-----------|------|------|---|----------------|----------|---------|
| Chloride | 1180   |           | 40.0      | 5.34 | mg/L |   | 06/08/20 16:13 |          | 100     |

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## Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

#### HPLC/IC

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| U         | Indicates the analyte was analyzed for but not detected. |

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

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

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**Surrogate Summary**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|-------------------|------------------------|--|-----------------|------------------|-----------------|
|                   |                        | DCA<br>(50-134)                                | BFB<br>(67-139) | DBFM<br>(62-130) | TOL<br>(70-130) |
| 600-205909-1      | POD-2-W-20200529       | 76   | 97              | 82               | 102             |
| 600-205909-2      | DUP-1-W-20200529       | 73   | 98              | 84               | 102             |
| 600-205909-3      | POD-3-W-20200529       | 77   | 89              | 84               | 102             |
| LCS 600-295647/4  | Lab Control Sample     | 80   | 90              | 90               | 105             |
| LCSD 600-295647/5 | Lab Control Sample Dup | 79   | 89              | 86               | 95              |
| MB 600-295647/7   | Method Blank           | 74   | 93              | 83               | 111             |

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |
|-------------------|------------------------|--|--|
|                   |                        | TFT1<br>(70-130)                               |  |
| 600-205909-1      | POD-2-W-20200529       | 101  |  |
| 600-205909-2      | DUP-1-W-20200529       | 102  |  |
| 600-205909-3      | POD-3-W-20200529       | 101  |  |
| LCS 600-295615/5  | Lab Control Sample     | 102  |  |
| LCSD 600-295615/6 | Lab Control Sample Dup | 102  |  |
| MB 600-295615/7   | Method Blank           | 100  |  |

**Surrogate Legend**

TFT = a,a,a-Trifluorotoluene

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |  |
|---------------------|------------------------|--|--|
|                     |                        | OTPH<br>(60-140)                               |  |
| 600-205909-1        | POD-2-W-20200529       | 70   |  |
| 600-205909-2        | DUP-1-W-20200529       | 67   |  |
| 600-205909-3        | POD-3-W-20200529       | 64   |  |
| LCS 600-295943/2-A  | Lab Control Sample     | 88   |  |
| LCSD 600-295943/3-A | Lab Control Sample Dup | 98   |  |
| MB 600-295943/1-A   | Method Blank           | 67   |  |

**Surrogate Legend**

OTPH = o-Terphenyl

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**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**Method: 8260C - Volatile Organic Compounds by GC/MS****Lab Sample ID: MB 600-295647/7****Matrix: Water****Analysis Batch: 295647**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte        | MB     |           | MQL (Adj) | SDL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----------|-------|------|---|----------|----------------|---------|
|                | Result | Qualifier |           |       |      |   |          |                |         |
| Benzene        | 0.560  | U         | 5.00      | 0.560 | ug/L |   |          | 06/02/20 12:54 | 1       |
| Ethylbenzene   | 1.29   | U         | 5.00      | 1.29  | ug/L |   |          | 06/02/20 12:54 | 1       |
| Toluene        | 0.550  | U         | 5.00      | 0.550 | ug/L |   |          | 06/02/20 12:54 | 1       |
| Xylenes, Total | 1.98   | U         | 5.00      | 1.98  | ug/L |   |          | 06/02/20 12:54 | 1       |

**MB****MB**

| Surrogate                    | MB        |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 74        |           | 50 - 134 |          | 06/02/20 12:54 | 1       |
| 4-Bromofluorobenzene         | 93        |           | 67 - 139 |          | 06/02/20 12:54 | 1       |
| Dibromofluoromethane         | 83        |           | 62 - 130 |          | 06/02/20 12:54 | 1       |
| Toluene-d8 (Surr)            | 111       |           | 70 - 130 |          | 06/02/20 12:54 | 1       |

**Lab Sample ID: LCS 600-295647/4****Matrix: Water****Analysis Batch: 295647**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte             | Spike |  | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec.    | Limits |
|---------------------|-------|--|------------|---------------|------|---|------|----------|--------|
|                     | Added |  |            |               |      |   |      |          |        |
| Benzene             | 50.0  |  | 44.62      |               | ug/L |   | 89   | 70 - 131 |        |
| Ethylbenzene        | 50.0  |  | 55.37      |               | ug/L |   | 111  | 70 - 130 |        |
| Toluene             | 50.0  |  | 53.09      |               | ug/L |   | 106  | 70 - 130 |        |
| Xylenes, Total      | 100   |  | 107.8      |               | ug/L |   | 108  | 70 - 130 |        |
| m-Xylene & p-Xylene | 50.0  |  | 54.97      |               | ug/L |   | 110  | 70 - 130 |        |
| o-Xylene            | 50.0  |  | 52.81      |               | ug/L |   | 106  | 69 - 130 |        |

**LCS****LCS**

| Surrogate                    | LCS       |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 80        |           | 50 - 134 |          | 06/02/20 12:54 | 1       |
| 4-Bromofluorobenzene         | 90        |           | 67 - 139 |          | 06/02/20 12:54 | 1       |
| Dibromofluoromethane         | 90        |           | 62 - 130 |          | 06/02/20 12:54 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 70 - 130 |          | 06/02/20 12:54 | 1       |

**Lab Sample ID: LCSD 600-295647/5****Matrix: Water****Analysis Batch: 295647**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte             | Spike |  | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec.    | RPD | RPD Limit |
|---------------------|-------|--|-------------|----------------|------|---|------|----------|-----|-----------|
|                     | Added |  |             |                |      |   |      |          |     |           |
| Benzene             | 50.0  |  | 43.17       |                | ug/L |   | 86   | 70 - 131 | 3   | 20        |
| Ethylbenzene        | 50.0  |  | 50.00       |                | ug/L |   | 100  | 70 - 130 | 10  | 20        |
| Toluene             | 50.0  |  | 49.73       |                | ug/L |   | 99   | 70 - 130 | 7   | 20        |
| Xylenes, Total      | 100   |  | 97.91       |                | ug/L |   | 98   | 70 - 130 | 10  | 20        |
| m-Xylene & p-Xylene | 50.0  |  | 49.66       |                | ug/L |   | 99   | 70 - 130 | 10  | 20        |
| o-Xylene            | 50.0  |  | 48.25       |                | ug/L |   | 97   | 69 - 130 | 9   | 20        |

**LCSD****LCSD**

| Surrogate                    | LCSD      |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 79        |           | 50 - 134 |          | 06/02/20 12:54 | 1       |
| 4-Bromofluorobenzene         | 89        |           | 67 - 139 |          | 06/02/20 12:54 | 1       |
| Dibromofluoromethane         | 86        |           | 62 - 130 |          | 06/02/20 12:54 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 70 - 130 |          | 06/02/20 12:54 | 1       |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**Method: 8015D - Gasoline Range Organics (GRO) (GC)****Lab Sample ID: MB 600-295615/7****Matrix: Water****Analysis Batch: 295615**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                            | MB<br>Result    | MB<br>Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------------|-----------------|-----------------|-----------|--------|------|---|----------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | 0.0230          | U               | 0.0500    | 0.0230 | mg/L | D |          | 06/02/20 10:09 | 1       |
| Surrogate                          | MB<br>%Recovery | MB<br>Qualifier | Limits    |        |      |   | Prepared | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene             | 100             |                 | 70 - 130  |        |      |   |          | 06/02/20 10:09 | 1       |

**Lab Sample ID: LCS 600-295615/5****Matrix: Water****Analysis Batch: 295615**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                            |  | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit | D | %Rec. |          |
|------------------------------------|--|------------------|------------------|------------------|------|---|-------|----------|
| Gasoline Range Organics [C6 - C10] |  | 0.252            | 0.2797           |                  | mg/L | D | 111   | 70 - 130 |
| Surrogate                          |  | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |      |   |       |          |
| a,a,a-Trifluorotoluene             |  | 102              |                  | 70 - 130         |      |   |       |          |

**Lab Sample ID: LCSD 600-295615/6****Matrix: Water****Analysis Batch: 295615**
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte                            |  | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit | D | %Rec. |          | RPD | RPD Limit |
|------------------------------------|--|-------------------|-------------------|-------------------|------|---|-------|----------|-----|-----------|
| Gasoline Range Organics [C6 - C10] |  | 0.252             | 0.2714            |                   | mg/L | D | 108   | 70 - 130 | 3   | 30        |
| Surrogate                          |  | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |      |   |       |          |     |           |
| a,a,a-Trifluorotoluene             |  | 102               |                   | 70 - 130          |      |   |       |          |     |           |

**Method: 8015D - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 600-295943/1-A****Matrix: Water****Analysis Batch: 296478**
**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 295943**

| Analyte                         | MB<br>Result    | MB<br>Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-----------------|-----------------|-----------|--------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.0450          | U               | 0.250     | 0.0450 | mg/L | D | 06/05/20 08:55 | 06/13/20 00:18 | 1       |
| C28-C36                         | 0.150           | U               | 0.250     | 0.150  | mg/L | D | 06/05/20 08:55 | 06/13/20 00:18 | 1       |
| Surrogate                       | MB<br>%Recovery | MB<br>Qualifier | Limits    |        |      |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl                     | 67              |                 | 60 - 140  |        |      |   | 06/05/20 08:55 | 06/13/20 00:18 | 1       |

**Lab Sample ID: LCS 600-295943/2-A****Matrix: Water****Analysis Batch: 296478**
**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 295943**

| Analyte                         |  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec. |          |
|---------------------------------|--|----------------|---------------|------------------|------|---|-------|----------|
| Diesel Range Organics [C10-C28] |  | 1.00           | 0.8867        |                  | mg/L | D | 89    | 70 - 130 |

Eurofins TestAmerica, Houston

**QC Sample Results**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

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

Lab Sample ID: LCS 600-295943/2-A

Matrix: Water

Analysis Batch: 296478

| Surrogate   | LCS | LCS | %Recovery | Qualifier | Limits   |
|-------------|-----|-----|-----------|-----------|----------|
| o-Terphenyl |     |     | 88        |           | 60 - 140 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295943

Lab Sample ID: LCSD 600-295943/3-A

Matrix: Water

Analysis Batch: 296478

| Analyte                            | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit      | D        | %Rec.    | RPD | Limit |
|------------------------------------|----------------|----------------|-------------------|-----------|----------|----------|-----|-------|
| Diesel Range Organics<br>[C10-C28] | 1.00           | 0.8922         |                   | mg/L      | 89       | 70 - 130 | 1   | 30    |
| Surrogate                          |                |                | LCSD              | LCSD      |          |          |     |       |
| o-Terphenyl                        |                |                | %Recovery         | Qualifier | Limits   |          |     |       |
|                                    |                |                | 98                |           | 60 - 140 |          |     |       |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 295943

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 600-296028/6

Matrix: Water

Analysis Batch: 296028

| Analyte  | MB<br>Result | MB<br>Qualifier | MQL (Adj) | SDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----------|--------|------|---|----------|----------------|---------|
| Chloride | 0.0534       | U               | 0.400     | 0.0534 | mg/L |   |          | 06/08/20 09:31 | 1       |

Lab Sample ID: LCS 600-296028/7

Matrix: Water

Analysis Batch: 296028

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D  | %Rec.    | Limit |
|----------|----------------|---------------|------------------|------|----|----------|-------|
| Chloride | 20.0           | 19.74         |                  | mg/L | 99 | 90 - 110 |       |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Lab Sample ID: 600-205909-1 MS

Matrix: Water

Analysis Batch: 296028

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D   | %Rec.    | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|-----|----------|-------|
| Chloride | 992              | F1                  | 1000           | 2812         | F1              | mg/L | 182 | 80 - 120 |       |

Client Sample ID: POD-2-W-20200529

Prep Type: Total/NA

Lab Sample ID: 600-205909-1 MSD

Matrix: Water

Analysis Batch: 296028

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D   | %Rec.    | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|------|-----|----------|-----|-------|
| Chloride | 992              | F1                  | 1000           | 2780          | F1               | mg/L | 179 | 80 - 120 | 1   | 20    |

Client Sample ID: POD-2-W-20200529

Prep Type: Total/NA

Eurofins TestAmerica, Houston

**Unadjusted Detection Limits**

Client: ARCADIS U.S., Inc.  
 Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

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

| Analyte        | MQL  | MDL   | Units |
|----------------|------|-------|-------|
| Benzene        | 5.00 | 0.560 | ug/L  |
| Ethylbenzene   | 5.00 | 1.29  | ug/L  |
| Toluene        | 5.00 | 0.550 | ug/L  |
| Xylenes, Total | 5.00 | 1.98  | ug/L  |

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

| Analyte                            | MQL    | MDL    | Units |
|------------------------------------|--------|--------|-------|
| Gasoline Range Organics [C6 - C10] | 0.0500 | 0.0230 | mg/L  |

**Method: 8015D - Diesel Range Organics (DRO) (GC)**

Prep: 3510C

| Analyte                         | MQL   | MDL    | Units |
|---------------------------------|-------|--------|-------|
| C28-C36                         | 0.250 | 0.150  | mg/L  |
| Diesel Range Organics [C10-C28] | 0.250 | 0.0450 | mg/L  |

**Method: 300.0 - Anions, Ion Chromatography**

| Analyte  | MQL   | MDL    | Units |
|----------|-------|--------|-------|
| Chloride | 0.400 | 0.0534 | mg/L  |

Eurofins TestAmerica, Houston

**QC Association Summary**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**GC/MS VOA****Analysis Batch: 295647**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205909-1      | POD-2-W-20200529       | Total/NA  | Water  | 8260C  |            |
| 600-205909-2      | DUP-1-W-20200529       | Total/NA  | Water  | 8260C  |            |
| 600-205909-3      | POD-3-W-20200529       | Total/NA  | Water  | 8260C  |            |
| MB 600-295647/7   | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 600-295647/4  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 600-295647/5 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

**GC VOA****Analysis Batch: 295615**

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 600-205909-1      | POD-2-W-20200529       | Total/NA  | Water  | 8015D  |            |
| 600-205909-2      | DUP-1-W-20200529       | Total/NA  | Water  | 8015D  |            |
| 600-205909-3      | POD-3-W-20200529       | Total/NA  | Water  | 8015D  |            |
| MB 600-295615/7   | Method Blank           | Total/NA  | Water  | 8015D  |            |
| LCS 600-295615/5  | Lab Control Sample     | Total/NA  | Water  | 8015D  |            |
| LCSD 600-295615/6 | Lab Control Sample Dup | Total/NA  | Water  | 8015D  |            |

**GC Semi VOA****Prep Batch: 295943**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205909-1        | POD-2-W-20200529       | Total/NA  | Water  | 3510C  |            |
| 600-205909-2        | DUP-1-W-20200529       | Total/NA  | Water  | 3510C  |            |
| 600-205909-3        | POD-3-W-20200529       | Total/NA  | Water  | 3510C  |            |
| MB 600-295943/1-A   | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 600-295943/2-A  | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| LCSD 600-295943/3-A | Lab Control Sample Dup | Total/NA  | Water  | 3510C  |            |

**Analysis Batch: 296478**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 600-205909-1        | POD-2-W-20200529       | Total/NA  | Water  | 8015D  | 295943     |
| 600-205909-2        | DUP-1-W-20200529       | Total/NA  | Water  | 8015D  | 295943     |
| 600-205909-3        | POD-3-W-20200529       | Total/NA  | Water  | 8015D  | 295943     |
| MB 600-295943/1-A   | Method Blank           | Total/NA  | Water  | 8015D  | 295943     |
| LCS 600-295943/2-A  | Lab Control Sample     | Total/NA  | Water  | 8015D  | 295943     |
| LCSD 600-295943/3-A | Lab Control Sample Dup | Total/NA  | Water  | 8015D  | 295943     |

**HPLC/IC****Analysis Batch: 296028**

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 600-205909-1     | POD-2-W-20200529   | Total/NA  | Water  | 300.0  |            |
| 600-205909-2     | DUP-1-W-20200529   | Total/NA  | Water  | 300.0  |            |
| 600-205909-3     | POD-3-W-20200529   | Total/NA  | Water  | 300.0  |            |
| MB 600-296028/6  | Method Blank       | Total/NA  | Water  | 300.0  |            |
| LCS 600-296028/7 | Lab Control Sample | Total/NA  | Water  | 300.0  |            |
| 600-205909-1 MS  | POD-2-W-20200529   | Total/NA  | Water  | 300.0  |            |
| 600-205909-1 MSD | POD-2-W-20200529   | Total/NA  | Water  | 300.0  |            |

Eurofins TestAmerica, Houston

**Lab Chronicle**

Client: ARCADIS U.S., Inc.  
Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

**Client Sample ID: POD-2-W-20200529****Lab Sample ID: 600-205909-1**

Matrix: Water

Date Collected: 05/29/20 12:41

Date Received: 05/30/20 10:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 295647       | 06/02/20 14:12       | DT1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295615       | 06/02/20 11:22       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3510C        |     |                 | 295943       | 06/05/20 08:55       | RLK     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/13/20 03:07       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 300.0        |     | 100             | 296028       | 06/08/20 15:30       | W1N     | TAL HOU |

**Client Sample ID: DUP-1-W-20200529****Lab Sample ID: 600-205909-2**

Matrix: Water

Date Collected: 05/29/20 00:00

Date Received: 05/30/20 10:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 295647       | 06/02/20 14:39       | DT1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295615       | 06/02/20 11:47       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3510C        |     |                 | 295943       | 06/05/20 08:55       | RLK     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/13/20 04:14       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 300.0        |     | 100             | 296028       | 06/08/20 16:03       | W1N     | TAL HOU |

**Client Sample ID: POD-3-W-20200529****Lab Sample ID: 600-205909-3**

Matrix: Water

Date Collected: 05/29/20 13:50

Date Received: 05/30/20 10:26

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 295647       | 06/02/20 15:05       | DT1     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 295615       | 06/02/20 12:11       | WS1     | TAL HOU |
| Total/NA  | Prep       | 3510C        |     |                 | 295943       | 06/05/20 08:55       | RLK     | TAL HOU |
| Total/NA  | Analysis   | 8015D        |     | 1               | 296478       | 06/13/20 04:47       | RJV     | TAL HOU |
| Total/NA  | Analysis   | 300.0        |     | 100             | 296028       | 06/08/20 16:13       | W1N     | TAL HOU |

**Laboratory References:**

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

Eurofins TestAmerica, Houston

## Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Chevron Onsurez #2

Job ID: 600-205909-1

### 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  |
|-----------------|-------------|--------|----------|
| 300.0           |             | Water  | Chloride |
| 8015D           | 3510C       | Water  | C28-C36  |

Eurofins TestAmerica, Houston





## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-205909-1

**Login Number:** 205909**List Source:** Eurofins TestAmerica, Houston**List Number:** 1**Creator:** Rubio, Yuri

| <b>Question</b>  | <b>Answer</b> | <b>Comment</b>                              |
|--|---------------|---|
| 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          | 0.6   |
| 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. |

# APPENDIX I

New Mexico Office of the State Engineer Transaction Summary





# New Mexico Office of the State Engineer

## Transaction Summary

### APPRO Application to Appropriate

Transaction Number: 194329

Transaction Desc: SP 1955

File Date: 05/22/1931

Primary Status: PMT Permit

Secondary Status: CRT Certificate of Construction

Person Assigned: \*\*\*\*\*

Applicant: E.T. CARTER

Applicant: W.A. MOORE

Events

| Date       | Type | Description                    | Comment | Processed By |
|------------|------|--------------------------------|---------|--------------|
| 05/22/1931 | APP  | Application Received           | *       | *****        |
| 05/22/1931 | NFP  | Notice for Publication         |         | *****        |
| 07/15/1931 | AOP  | Affidavit of Publication rcv   |         | *****        |
| 07/23/1931 | PUC  | PBU/PCW Approval               |         | *****        |
| 07/23/1931 | FIN  | Final Action on application    |         | *****        |
| 09/14/1932 | PCW  | Proof Completion of Well/Works | *       | *****        |
| 09/14/1932 | PCW  | Proof Completion of Well/Works |         | *****        |
| 09/25/1933 | PBU  | Proof of Beneficial Use        | *       | *****        |
| 10/05/1933 | CRT  | Certificate of Construction    | *       | *****        |

Water Right Information

| WR File Nbr | Acres | Diversion | Consumptive | Purpose of Use |
|-------------|-------|-----------|-------------|----------------|
| SP 01955    | 37.7  | 150.8     |             | IRR IRRIGATION |

\*\*Point of Diversion

|          |        |          |  |
|----------|--------|----------|--|
| SP 01955 | 570282 | 3590059* |  |
|----------|--------|----------|--|

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

\*\*Place of Use

| Q<br>256 | Q<br>64 | Q<br>16 | Q<br>4 | Sec | Tws | Rng | Acres | Diversion | Consumptive | Use  | Priority | Status | Other Loc Desc |
|----------|---------|---------|--------|-----|-----|-----|-------|-----------|-------------|------|----------|--------|----------------|
|          |         |         |        | NW  | SW  | 25  | 21S   | 26E       | 15          | 60   | IRR      | PMT    |                |
|          |         |         |        | SE  | SW  | 25  | 21S   | 26E       | 12.75       | 51   | IRR      | PMT    |                |
|          |         |         |        | SW  | SE  | 25  | 21S   | 26E       | 4.25        | 17   | IRR      | PMT    |                |
|          |         |         |        | SE  | NE  | SE  | 26    | 21S       | 26E         | 2.5  | 10       | IRR    | PMT            |
|          |         |         |        | SE  | SE  | 26  | 21S   | 26E       | 3.2         | 12.8 | IRR      | PMT    |                |

Remarks

THIS APPLICATION IS TO APPROPRIATE 150.8 AF/AN FROM AN UNNAMED SPRING BRANCH, TRIBUTARY TO THE PECOS RIVER FOR IRRIGATION OF 37.7 ACRES OF LAND AND FOR DOMESTIC PURPOSES.

Action of the State Engineer

THIS APPLICATION IS APPROVED SUBJECT TO THE ADJUDICATION OF THE WATERS OF THE PECOS STREAM SYSTEM IN CAUSE NUMBER 712,

EQUITY IN THE DISTRICT COURT OF THE UNITED STATES DISTRICT OF NEW MEXICO, ENTITLED USA, PLAINTIFF VS HOPE COMM. DITCH, ET AL.

**\*\* See Image For Any Additional Conditions of Approval \*\***

**Approval Code:** A - Approved

**Action Date:** 07/23/1931

**PCW Due Date:** 10/23/1932

**PBU Due Date:** 10/23/1933

**State Engineer:**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/7/20 12:59 PM

TRANSACTION  
SUMMARY



Arcadis U.S., Inc.

1004 North Big Spring Street  
Suite 121  
Midland, Texas 79701  
Tel 432 687 5400  
Fax 432 687 5401

[www.arcadis.com](http://www.arcadis.com)

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**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 83030

#### CONDITIONS

|  |   |
|--|---|
| Operator:<br><br>CHEVRON U S A INC<br>6301 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>4323  |
|  | Action Number:<br>83030                                   |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

#### CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| bbillings  | None      | 10/25/2022     |