

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	NGRL1233232139
District RP	1RP-2874
Facility ID	30-025-01743
Application ID	pGRL1233232394

Release Notification

Responsible Party

INFORMATION ONLY

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Armando Martinez	Contact Telephone: 505-690-5408
Contact email: amarti@chevron.com	Incident # (assigned by OCD) NGRL1233232139
Contact mailing address: P.O. Box 469 Questa NM, 87564	

Location of Release Source

Latitude 32.57515 Longitude -103.67064
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: WTU #622	Site Type: Well head
Date Release Discovered: 11/16/2012	API# (if applicable): 30-025-01743

Unit Letter	Section	Township	Range	County
F	16	20S	33E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 15	Volume Recovered (bbls): 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

A ruptured line caused 15 bbls of produced water to leak onto the ground. 5 bbls produced water were recovered via vacuum truck and the line was repaired.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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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>185</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ <u>No</u>
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?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ <u>No</u>
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ <u>No</u>
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ <u>No</u>

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.

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. **Attached.**
Field data: **Attached.**
Data table of soil contaminant concentration data: **Attached.**
Depth to water determination: **>50 feet bgs**
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release: **None identified.**
Boring or excavation logs: **Boring Logs attached.**
Photographs including date and GIS information: **Photographic log attached.**
Topographic/Aerial maps; **Topographic map attached.**
Laboratory data including chain of custody: **Attached.**

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.

State of New Mexico
Oil Conservation Division

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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: Environmental Project Manager

Signature:  Date: 04/28/2022

email: amarti@chevron.com Telephone: 505-690-5408

OCD Only

Received by: _____ Date: _____



Adriane Gifford
Project Manager

Upstream Business Unit
Environmental Management Company
1500 Louisiana Street
Room 38108
Houston, Texas 77002
Tel 832-854-5620
agifford@chevron.com

August 12, 2020

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

Re: 2020 Assessment Report – WTU #622
Case No. 1RP-2874
Lea County, New Mexico

Dear New Mexico Oil Conservation Division:

Chevron Environmental Management Company (CEMC) submits herein the 2020 Soil Assessment Report for 1RP-2874, WTU #622, which is located approximately 32.4 miles southwest of Hobbs, in Unit F, Section 16, Township 20 South, Range 33 East in Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC. Based on the 2020 soil investigation data, additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan for review and approval to fully delineate chloride and total petroleum hydrocarbon (TPH) impacts that remain in soil.

If you have any questions regarding this submittal, please contact Scott Foord of Arcadis at (713) 953-4853 or me at (832) 854-5620.

Respectfully,

Chevron Environmental Management Company
on behalf of
Chevron U.S.A. Inc.

A handwritten signature in blue ink, appearing to read "Adriane Gifford".

Adriane Gifford
Project Manager

Encl.



Chevron Environmental Management Company

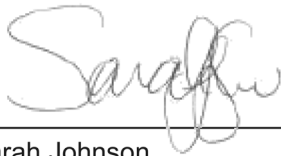
2020 SOIL ASSESSMENT REPORT

WTU #622

Case No. 1RP-2874

August 12, 2020

2020 SOIL ASSESSMENT REPORT



Sarah Johnson
Task Manager II



Scott Foord, PG
Certified Project Manager

**2020 SOIL
ASSESSMENT
REPORT**

WTU #622

Prepared for:

Adriane Gifford
Project Manager
Chevron Environmental Management
Company
1500 Louisiana Street
Houston, Texas 77002

Prepared by:

Arcadis U.S., Inc.
1004 North Big Spring Street
Suite 121
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401

Our Ref:

30049293

Date:

August 12, 2020

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2020 SOIL ASSESSMENT REPORT

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Figure 3. Soil Analytical Results Map

APPENDICES

Appendix A. Initial C-141 Form 1RP-2874
Appendix B. Boring Logs
Appendix C. Photograph Log
Appendix D. Laboratory Report

2020 SOIL ASSESSMENT REPORT

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing the soil assessment activities for the WTU #622 (Site).

2 PROJECT SUMMARY

The Site is located approximately 32.4 miles southwest from Hobbs, in Unit F, Section 16, Township 20 South, Range 33 East, Lea County, New Mexico.

On November 16, 2012, a ruptured line released 15 barrels (bbls) of produced water at the Site. Upon discovery, a vacuum truck was dispatched and recovered approximately 5 bbls of standing fluid and the line was repaired. According to the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form submitted on November 26, 2012, the affected areas measure approximately 115' by 10' and 190' by 30'. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well approximately 2.83 miles northwest of the Site with a depth to groundwater of 185 feet below ground surface (bgs). The Initial C-141 Form was approved with conditions and assigned remediation permit number 1RP-2874. The Initial C-141 Form is included as **Appendix A**.

3 SOIL ASSESSMENT

On May 20-21, 2020, Arcadis personnel met with Chevron Operations personnel familiar with the historical release at the Site. Arcadis collected soil samples at twenty locations (HA-1 through HA-20) within the release area. The soil samples were collected with a hand auger at depths ranging from the surface (0"-6") to approximately 6 feet below ground surface (bgs). Boring Logs are available in **Appendix B**. The sample locations were determined based on Chevron Operations personnel knowledge of the historical release associated with the remediation permit number 1RP-2874. 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), and 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. Soil sample locations are presented in **Figure 2**. A photograph log is presented in **Appendix C**.

4 SOIL ANALYTICAL RESULTS

The soil analytical results were compared to the New Mexico Administration Code (NMAC) screening levels for chloride, TPH and BTEX for a site with a depth to groundwater greater than 100 feet bgs. A summary of the soil sample analytical results is presented in **Table 1**. Copies of the certified analytical reports and chain-of-custody documentation from Eurofins TestAmerica are presented in **Appendix D**. The soil analytical map is presented in **Figure 3**.

2020 SOIL ASSESSMENT REPORT

4.1 Chloride

- Chloride concentrations were not reported above the revised NMAC Rule 19.15.29 screening limit of 20,000 milligrams per kilogram (mg/Kg) in any of the soil borings installed at the Site.
- Chloride concentrations exceeded the revised Rule (19.15.29.13) restoration screening criteria of 600 mg/Kg within the top 4 feet bgs of the soil column in 29 of the 47 soil samples collected, with concentrations ranging from 684 mg/Kg at HA-3 (0 – 6 inches bgs) to 14,800 mg/Kg at HA-12 (0 – 6 inches).

4.2 TPH

- Total GRO and DRO exceeded the NMAC screening standard of 1,000 mg/Kg in two of the 47 soil samples collected at the following concentrations:
 - 4,581 mg/Kg at HA-14 (0 – 6 inches bgs)
 - 4,622 mg/Kg at HA-20 (0 – 6 inches bgs)
- Total TPH exceeded the NMAC screening standard of 2,500 mg/Kg in two of the 47 soil samples collected at the following concentrations:
 - 22,949 mg/Kg at HA-14 (0 – 6 inches bgs)
 - 4,660 mg/Kg at HA-20 (0 – 6 inches bgs)

4.3 BTEX

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

5 SUMMARY

In summary, the 2020 soil investigation activities indicate the following:

- Chloride concentrations exceed the restoration screening criteria of 600 mg/kg within 29 of the 47 soil samples collected, however concentrations are below the revised NMOCD screening criteria of 20,000 mg/Kg for chloride in soil at a site with groundwater greater than 100 feet bgs.
- Total GRO and DRO have not been delineated in soil at the Site.
- Total TPH has not been delineated in soil at the Site.

6 RECOMMENDATION

Analytical results associated with recent assessment activities conducted in 2020 indicated that the horizontal and vertical delineation of chloride, total GRO and DRO, and total TPH impact in soil have not been fully delineated. Additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan that will be submitted to NMOCD for review and approval.

TABLES



Table 1
2020 Soil Analytical Results
Chevron Environmental Management Company
WTU # 622
Lea County, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Total GRO + DRO (mg/kg)	Oil Range Organics (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMAC Standards			10	--	--	--	50	--	--	1,000	--	2,500	20,000
Restoration Requirements													
HA-1	0 - 6"	05/20/20	0.00355 J	<0.00142	<0.00105	<0.00116	0.00718 J	<0.619	46.9	48	341	389	600*
	16"	05/20/20	0.00729 J	<0.00152	<0.00112	<0.00125	0.00518 J	<0.664	12.3 J	13 J	115	128 J	327 F1
	0 - 6"	05/20/20	0.000724 J	<0.00143	<0.00106	<0.00117	0.004384 J	<0.662	23.4	24	180	204	71
HA-2	2"	05/20/20	<0.000701	<0.00154	<0.00104	<0.00126	<0.00114	<0.636	16.8	17	98.8	116	179
	4"	05/20/20	<0.000689	<0.00151	<0.00112	<0.00124	<0.004559	<0.684	107	108	66.7	174	2,110
HA-3	0 - 6"	05/20/20	<0.000642	<0.00141	<0.00104	<0.00115	<0.004242	<0.608	<2.61	<3	<7.64	<11	4,750
	2"	05/20/20	<0.000637	<0.00150	<0.00111	<0.00123	<0.004527	<0.630	<2.78	<3	<8.13	<12	684
HA-4	0 - 6"	05/20/20	<0.000682	<0.00149	<0.00110	<0.00122	<0.004432	<0.664	<2.76	<3	<8.06	<12	11
	1"	05/20/20	<0.000938	<0.00205	<0.00182	<0.00168	<0.006188	<0.922	12.1 J F2 F1	13 J F2 F1	51.9	65 J F2 F1	237
HA-5	0 - 6"	05/20/20	<0.000782	<0.00171	<0.00127	<0.00140	<0.005162	<0.740	<3.20	<4	<9.34	<13	9
	1"	05/20/20	<0.000776	<0.00170	<0.00126	<0.00139	<0.005126	<0.705	13.4 J	14 J	<9.21	23 J	30.1 F1
HA-6	0 - 6"	05/20/20	<0.000651	<0.00143	<0.00105	<0.00117	<0.004301	<0.583	6.36 J	7 J	<7.63	15 J	76
	1"	05/20/20	<0.000665	<0.00146	<0.00108	<0.00119	<0.004395	<0.603	<2.75	<3	<8.03	<11	86
HA-7	0 - 6"	05/20/20	0.018	0.00184 J	<0.00105	<0.00116	0.02205 J	<0.614	61.1	61.1	202	263	114
	2"	05/20/20	0.00206 J	<0.00150	<0.00111	<0.00123	0.0059 J	<0.641	11.2 J	12 J	110	122 J	2,590
	4"	05/20/20	<0.000648	<0.00142	<0.00106	<0.00116	<0.004278	<0.677	<2.73	<3	55.2	59	2,940
	6"	05/20/20	<0.000894	<0.00196	<0.00145	<0.00160	<0.005904	<0.851	<3.71	<5	<10.8	<15	2,280
HA-8	0 - 6"	05/21/20	0.00112 J	<0.00187	<0.00138	<0.00153	0.0059 J	<0.864	48.0 H	49 H	186 H	234 H	10
	2"	05/21/20	0.00160 J	<0.00180	<0.00133	<0.00148	0.00621 J	<0.873	<3.53	<4	118	122	41
	0 - 6"	05/20/20	<0.000645	<0.00141	<0.00104	<0.00116	<0.004255	<0.634	35.2	36	62.7	99	3,530
HA-9	2"	05/20/20	0.00193 J	<0.00189	<0.00140	<0.00155	0.00677 J	<0.804	<3.48	<4	57.0	61	2,310
	4"	05/20/20	0.00144 J	<0.00182	<0.00134	<0.00149	0.00609 J	<0.865	<3.63	<4	102	106	1,860
HA-10	0 - 6"	05/20/20	0.000745 J	<0.00139	<0.00103	<0.00114	0.004305 J	<0.637	<2.82	<3	95.5	99	7,390
	0 - 6"	05/20/20	0.00103 J	<0.00145	<0.00107	<0.00118	0.00473 J	<0.618	57.2	58	458	516	6,300
HA-11	2"	05/20/20	0.00146 J	<0.00173	<0.00128	<0.00141	0.00588 J	<0.805	13.7 J	15 J	192	207 J	7,870
	4"	05/20/20	0.00101 J	<0.00195	<0.00134	<0.00160	0.006 J	<0.891	14.0 J	15 J	149	164 H	3,320
	0 - 6"	05/20/20	0.00127 J	<0.00146	<0.00108	<0.00119	0.005 J	<0.632	60.7	61	388	449	14,800
HA-12	2"	05/20/20	0.00218 J	<0.00188	<0.00139	<0.00154	0.00699 J	<0.898	26.1	27	165	192	4,920
	4"	05/20/20	<0.000768	<0.00168	<0.00124	<0.00138	<0.005068	<0.759	<3.19	<4	<9.34	<13	3,030
	0 - 6"	05/20/20	0.00719	<0.00134	<0.000991	<0.00110	0.010621	<0.616	6.21 J	7 J	116	123 J	718
HA-13	2"	05/20/20	0.000921 J	<0.00159	<0.00117	<0.00130	0.004981 J	<0.652	12.8 J	13 J	103	117 J	2,610
	4"	05/20/20	<0.000773	<0.00169	<0.00125	<0.00139	<0.005103	<0.715	<3.20	<4	<9.34	<13	2,890 F1
HA-14	0 - 6"	05/21/20	0.00298 J	<0.00144	<0.00106	<0.00118	0.00666 J	<0.669	4.580	4.581	17,700	22,949	78
	0 - 6"	05/21/20	0.00411 J	<0.00144	<0.00106	<0.00118	0.00779 J	<0.637	8.48 J	9	142	151 J	101
HA-15	2"	05/21/20	0.00106 J	<0.00210	<0.00155	<0.00172	0.00643 J	<0.892	12.3 J	13	156 J	158 J	3,490
	4"	05/21/20	0.000950 J	<0.00184	<0.00136	<0.00151	0.00566 J	<0.841	<3.48	4	<20.0 H	24 H	4,570
HA-16	0 - 6"	05/21/20	0.00186 J	<0.00148	<0.00110	<0.00121	0.00565 J	<0.629	4.36 J	5 J	104	109	15
	2"	05/21/20	0.000847 J	<0.00148	<0.00109	<0.00121	0.004621 J	<0.625	4.36 J	5 J	94.6	100	48
HA-17	0 - 6"	05/21/20	0.00201 J	<0.00145	<0.00107	<0.00118	0.00571 J	<0.661	5.49 J	6 J	114	120 J	6,870
	2"	05/21/20	<0.000646	<0.00142	<0.00105	<0.00116	<0.004276	<0.656	<1.85	<3	67.9	70	5,660 F1 F2
	4"	05/21/20	<0.000694	<0.00152	<0.00112	<0.00125	<0.004584	<0.684	<1.89	<3	65.4	<68	4,310
HA-18	0 - 6"	05/21/20	<0.000713	<0.00156	<0.00115	<0.00128	<0.004703	<0.663	<1.96	<3	77.8	80	2,550
	2"	05/21/20	<0.000707	<0.00155	<0.00114	<0.00127	<0.004667	<0.671	<1.93	<3	65.6	68	4,360
HA-19	0 - 6"	05/21/20	0.00343 J	<0.00147	<0.00109	<0.00121	0.0072 J	<0.598	25.2	26	205	231	3,930
	2"	05/21/20	<0.000756	<0.00166	<0.00122	<0.00136	<0.004996	<0.653	7.05 J	8 J	104	112 J	7,080
	4"	05/21/20	<0.000759	<0.00166	<0.00123	<0.00136	<0.005009	<0.757	<2.06	<3	<8.03	<9	10,700
HA-20	0 - 6"	05/20/20	<0.000738	<0.00162	<0.00119	<0.00132	<0.004868	41.9	4.580	4.622	37.8	4,660	219

Table 1 WTU 622_2020 Soil Analytical Data_SJ



Table 1
2020 Soil Analytical Results
Chevron Environmental Management Company
WTU # 622
Lea County, New Mexico

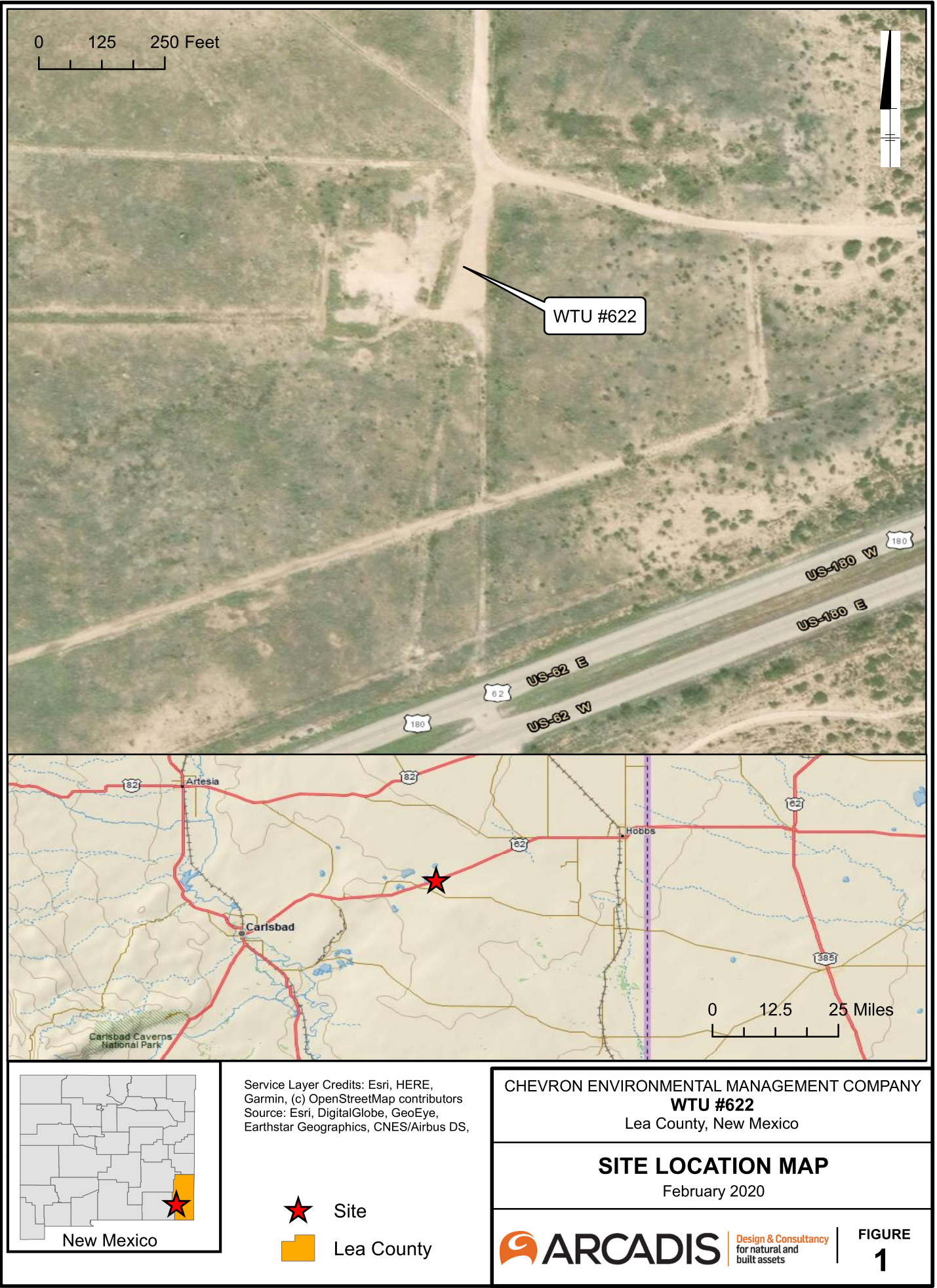
Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Total GRO + DRO (mg/kg)	Oil Range Organics (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMAC Standards			10	--	--	--	50	--	--	1,000	--	2,500	20,000
Legend:													
Any flags reported are indicated in bold													
F1: MS and/or MSD recovery exceeds control limits													
F2: MS/MSD RPD exceeds control limits													
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value													
H : Sample was prepped or analyzed beyond the specified holding time													
B: Compound was found in the blank and sample													
Analytes exceeding NMAC Standards are indicated in yellow													
< 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													
" " : Indicated inches													
*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018													

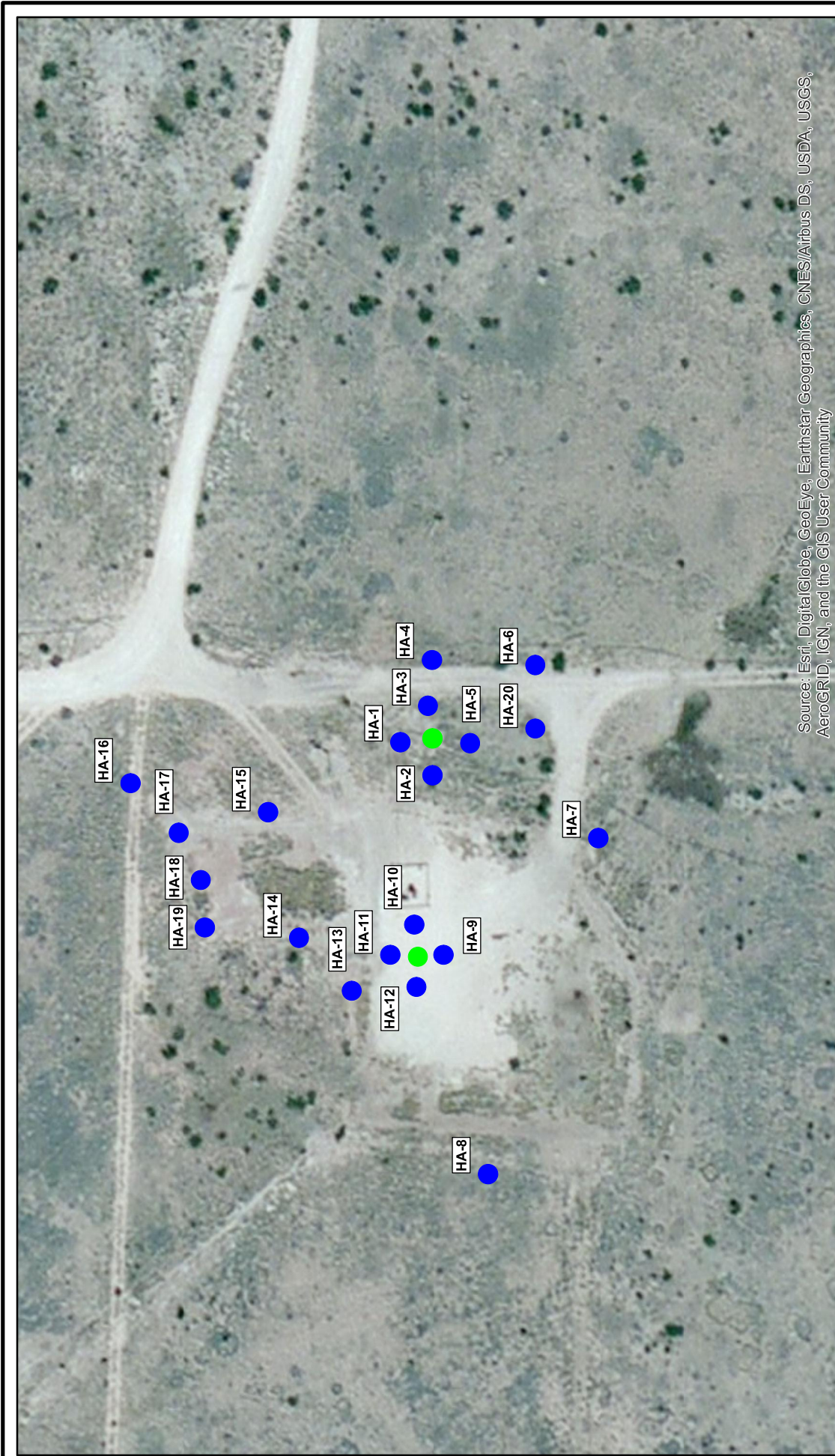
Notes:
1. Chloride analyzed by EPA Method 300
2. TPH analyzed by EPA Method 8015D
3. BTEX analyzed by EPA Method 8260C
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

FIGURES



City: Houston Div/Group: Remediation West-Air Group Created By: W Berry Last Saved By: wberry : Client (Project #)
D:\Arcadis\Land Services\z-Proposals\WTU_622\Chevron_WTU_622.mxd 2/10/2020 5:04:18 AM
G:\ENV\Chevron\Texas\TX8\HES Transfer\01 Project Management\2020\2_SOW Proposal\Scope\WDDU Battery (D)\SOW\GIS





CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WTU #622
LEA COUNTY, NEW MEXICO

SOIL SAMPLE LOCATIONS MAP

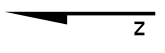
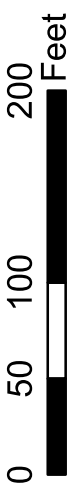
FIGURE
ARCADIS | 2

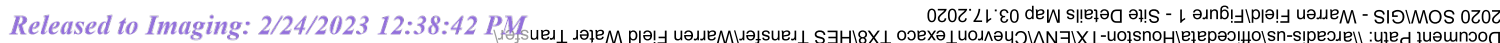
Legend

- Historical Sample Locations
- Soil Sample Locations

Note:

- 1. Datum: GCS_WGS_1984
- 2. Site Location: 32.574947°, -103.670457°





APPENDIX A

Initial C-141 Form 1RP-2874

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

HOBBS OCD

Form C-141
Revised October 10, 2003

NOV 26 2012

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chesapeake Operating, Inc.	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	WTU #622	Facility Type	Well location
Surface Owner	Mineral Owner	Lease No. API#30-025-01743	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	16	20S	33E	1980	North	1980	West	Lea County, NM

Latitude 32.57515° Longitude 103.67064°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	5 bbls
Source of Release	Broken line	Date and Hour of Occurrence	11/16/2012	Date and Hour of Discovery	11/16/2012
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Geoffrey Leking- NMOCD			
By Whom?	Cliff Brunson for Bradley Blevins	Date and Hour 11/19/2012 @ 4:19 pm			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A broken line caused 15 bbls of produced water to leak onto the ground. 5 bbls of produced water were recovered via vacuum truck and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The areas affected are approximately 115' x 10' and 190' x 30'. 5 bbls of produced water were recovered via vacuum truck. Further remediation will be performed in accordance with a NMOCD-approved remediation plan.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Bradley Blevins	Approved by District Supervisor  Environmental Specialist	
Title: EHS Specialist	Approval Date: 11/27/12	Expiration Date: 01/28/13
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval: SUBMIT FINAL	Attached ☐
Date: 11/26/12 Phone: (575) 391-1462	C-141 BY 01/28/13	IRP-11-12-2874

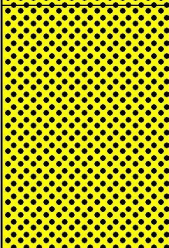
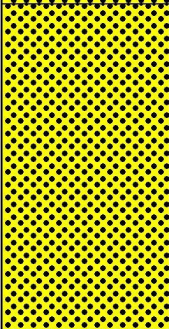
* Attach Additional Sheets If Necessary

APPENDIX B

Boring Logs

Date Start/Finish: 5/20/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 4' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-2 Client: CEMC Location: WTU #622 Lea County, NM
---	--	--

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand
2'			Chalky, dry fine sand
4'			Caliche, fine dry sand, refusal at 4'
5			End of boring 4' bgs

 ARCADIS <i>Infrastructure · Water · Environment · Buildings</i>	Remarks: Total Depth: 4' Below Ground Surface (bgs)
---	--

Project: 30049293
Data File: HA-2

Template: LPTEMPLATE_HA_1.lfdx
Date: 6/3/2020

Created/Edited by: AD

Page: 1 of 1

Date Start/Finish: 5/20/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 6' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-7 Client: CEMC Location: WTU #622 Lea County, NM
---	--	--

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand, no odor
1			Chalky, dry fine sand, no odor
2			
3			Chalky, dry fine sand, no odor
4			
5			Chalky, dry fine sand, no odor
6			
			End of boring 6' bgs

	Remarks: Total Depth: 6' Below Ground Surface (bgs)
---	--

Date Start/Finish: 5/21/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 4' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-15 Client: CEMC Location: WTU #622 Lea County, NM
---	--	---

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand, no odor
1			Chalky, dry fine sand, no odor
2			
3			Chalky, dry fine sand, no odor, Refusal at 4' - Hard Layer (caliche)
4			
5			End of boring 4' bgs

	Remarks: Total Depth: 4' Below Ground Surface (bgs)
---	--

Project: 30049293
Data File: HA-15

Template: LPTEMPLATE_HA_1.ldfx
Date: 6/3/2020

Created/Edited by: AD

Page: 1 of 1

Date Start/Finish: 5/21/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 4' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-17 Client: CEMC Location: WTU #622 Lea County, NM
---	--	---

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand, no odor
1			Chalky, dry fine sand, no odor
2			
3			Chalky, dry fine sand, no odor, Refusal at 4' - Hard Layer (caliche)
4			
5			End of boring 4' bgs

	Remarks: Total Depth: 4' Below Ground Surface (bgs)
---	--

Project: 30049293
Data File: HA-17

Template: LPTEMPLATE_HA_1.lfdx
Date: 6/3/2020

Created/Edited by: AD

Page: 1 of 1

Date Start/Finish: 5/21/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 4' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-18 Client: CEMC Location: WTU #622 Lea County, NM
---	--	---

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand, no odor
1			Chalky, dry fine sand, no odor
2			
3			Chalky, dry fine sand, no odor, Refusal at 4' - Hard Layer (caliche)
4			
5			End of boring 4' bgs

	Remarks: Total Depth: 4' Below Ground Surface (bgs)
---	--

Project: 30049293
Data File: HA-18

Template: LPTEMPLATE_HA_1.lfdx
Date: 6/3/2020

Created/Edited by: AD

Page: 1 of 1

Date Start/Finish: 5/21/2020 Drilling Company: Arcadis Drilling Method: Hand Auger Sampling Method: Hand Auger	Borehole Depth: 4' Surface Elevation: N/A Descriptions By: Justin Nixon	Well/Boring ID: HA-19 Client: CEMC Location: WTU #622 Lea County, NM
---	--	---

DEPTH	Sample Interval	Geologic Column	Stratigraphic Description
-------	-----------------	-----------------	---------------------------

0	0-0.5'		Chalky, dry fine sand, no odor
1			Chalky, dry fine sand, no odor
2			
3			Chalky, dry fine sand, no odor, Refusal at 4' - Hard Layer (caliche)
4			
5			End of boring 4' bgs

	Remarks: Total Depth: 4' Below Ground Surface (bgs)
---	--

Project: 30049293
Data File: HA-19

Template: LPTEMPLATE_HA_1.lfdx
Date: 6/3/2020

Created/Edited by: AD

Page: 1 of 1

APPENDIX C

Photograph Log

WTU #622 – 1RP-2874



Photo 1. Release area facing north.



Photo 2. Release area facing northwest.

WTU #622 – 1RP-2874



Photo 3. Release area facing southeast.



Photo 4. Release area facing south.

WTU #622 – 1RP-2874



Photo 5. Release area facing southwest.



Photo 6. Release area facing west.

APPENDIX D

Laboratory Report



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-205599-1

Client Project/Site: Chevron - WTU #622 Site
Revision: 1

For:

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

Attn: Sarah Johnson

Authorized for release by:
7/1/2020 11:20:39 AM

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

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Laboratory Job ID: 600-205599-1

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Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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 - WTU #622 Site

Job ID: 600-205599-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-205599-1	HA-1-0"-6"	Solid	05/20/20 10:40	05/22/20 10:10	
600-205599-2	HA-1-1'-6"	Solid	05/20/20 10:50	05/22/20 10:10	
600-205599-3	HA-2-0"-6"	Solid	05/20/20 11:10	05/22/20 10:10	
600-205599-4	HA-2-2'	Solid	05/20/20 11:20	05/22/20 10:10	
600-205599-5	HA-2-4'	Solid	05/20/20 11:30	05/22/20 10:10	
600-205599-6	HA-3-0"-6"	Solid	05/20/20 11:45	05/22/20 10:10	
600-205599-7	HA-3-2'	Solid	05/20/20 11:55	05/22/20 10:10	
600-205599-8	HA-4-0"-6"	Solid	05/20/20 12:10	05/22/20 10:10	
600-205599-9	HA-4-1'	Solid	05/20/20 12:20	05/22/20 10:10	
600-205599-10	HA-5-0"-6"	Solid	05/20/20 12:35	05/22/20 10:10	
600-205599-11	HA-5-1'	Solid	05/20/20 12:45	05/22/20 10:10	
600-205599-12	HA-6-0"-6"	Solid	05/20/20 13:00	05/22/20 10:10	
600-205599-13	HA-6-1'	Solid	05/20/20 13:10	05/22/20 10:10	
600-205599-14	HA-7-0"-6"	Solid	05/20/20 13:40	05/22/20 10:10	
600-205599-15	HA-7-2'	Solid	05/20/20 13:50	05/22/20 10:10	
600-205599-16	HA-7-4'	Solid	05/20/20 14:00	05/22/20 10:10	
600-205599-17	HA-7-6'	Solid	05/20/20 14:10	05/22/20 10:10	
600-205599-18	HA-20-0"-6"	Solid	05/20/20 13:25	05/22/20 10:10	
600-205599-19	HA-9-0"-6"	Solid	05/20/20 14:30	05/22/20 10:10	
600-205599-20	HA-9-2'	Solid	05/20/20 14:40	05/22/20 10:10	
600-205599-21	HA-9-4"	Solid	05/20/20 14:50	05/22/20 10:10	
600-205599-22	HA-10-0"-6"	Solid	05/20/20 15:05	05/22/20 10:10	
600-205599-23	HA-11-0"-6"	Solid	05/20/20 15:20	05/22/20 10:10	
600-205599-24	HA-11-2'	Solid	05/20/20 15:30	05/22/20 10:10	
600-205599-25	HA-11-4'	Solid	05/20/20 15:40	05/22/20 10:10	
600-205599-26	HA-12-0"-6"	Solid	05/20/20 15:45	05/22/20 10:10	
600-205599-27	HA-12-2'	Solid	05/20/20 15:55	05/22/20 10:10	
600-205599-28	HA-12-4'	Solid	05/20/20 16:05	05/22/20 10:10	
600-205599-29	HA-13-0"-6"	Solid	05/20/20 16:20	05/22/20 10:10	
600-205599-30	HA-13-2'	Solid	05/20/20 16:30	05/22/20 10:10	
600-205599-31	HA-13-3	Solid	05/20/20 16:40	05/22/20 10:10	
600-205599-32	HA-8-0"-6"	Solid	05/21/20 09:35	05/22/20 10:10	
600-205599-33	HA-8-2'	Solid	05/21/20 09:45	05/22/20 10:10	
600-205599-34	HA-14-0"-6"	Solid	05/21/20 10:00	05/22/20 10:10	
600-205599-35	HA-15-0"-6"	Solid	05/21/20 10:15	05/22/20 10:10	
600-205599-36	HA-15-2'	Solid	05/21/20 10:25	05/22/20 10:10	
600-205599-37	HA-15-4'	Solid	05/21/20 10:35	05/22/20 10:10	
600-205599-38	HA-16-0"-6"	Solid	05/21/20 10:50	05/22/20 10:10	
600-205599-39	HA-16-2'	Solid	05/21/20 11:00	05/22/20 10:10	
600-205599-40	HA-17-0"-6"	Solid	05/21/20 11:30	05/22/20 10:10	
600-205599-41	HA-17-2'	Solid	05/21/20 11:40	05/22/20 10:10	
600-205599-42	HA-17-4'	Solid	05/21/20 11:50	05/22/20 10:10	
600-205599-43	HA-18-0"-6"	Solid	05/21/20 12:30	05/22/20 10:10	
600-205599-44	HA-18-2'	Solid	05/21/20 12:40	05/22/20 10:10	
600-205599-45	HA-18-4'	Solid	05/21/20 12:50	05/22/20 10:10	
600-205599-46	HA-19-0"-6"	Solid	05/21/20 13:30	05/22/20 10:10	
600-205599-47	HA-19-2'	Solid	05/21/20 13:40	05/22/20 10:10	
600-205599-48	HA-19-4'	Solid	05/21/20 13:50	05/22/20 10:10	

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-1-0"-6"

Lab Sample ID: 600-205599-1

Date Collected: 05/20/20 10:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 97.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.55	J	5.13	0.647	ug/Kg	☼	05/26/20 17:13	05/27/20 14:25	1
Ethylbenzene	1.05	U	5.13	1.05	ug/Kg	☼	05/26/20 17:13	05/27/20 14:25	1
Toluene	1.42	U	5.13	1.42	ug/Kg	☼	05/26/20 17:13	05/27/20 14:25	1
Xylenes, Total	1.16	U	5.13	1.16	ug/Kg	☼	05/26/20 17:13	05/27/20 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130	05/26/20 17:13	05/27/20 14:25	1
4-Bromofluorobenzene	90		57 - 140	05/26/20 17:13	05/27/20 14:25	1
Dibromofluoromethane	82		68 - 140	05/26/20 17:13	05/27/20 14:25	1
Toluene-d8 (Surr)	97		50 - 130	05/26/20 17:13	05/27/20 14:25	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]	0.619	U	1.06	0.619	mg/Kg	☼	05/23/20 07:38	05/23/20 09:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	05/23/20 07:38	05/23/20 09:12	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]	46.9		12.7	2.62	mg/Kg	☼	06/02/20 08:02	06/02/20 16:41	1
Oil Range Organics (C28-C36)	341		12.7	7.67	mg/Kg	☼	06/02/20 08:02	06/02/20 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	105		60 - 140	06/02/20 08:02	06/02/20 16:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.7	F1	8.24	1.10	mg/Kg	☼		06/03/20 17:02	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	97.0		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-1-1'-6"

Lab Sample ID: 600-205599-2

Date Collected: 05/20/20 10:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 91.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.29	J	5.51	0.695	ug/Kg	☼	05/26/20 17:13	05/27/20 15:38	1
Ethylbenzene	1.12	U	5.51	1.12	ug/Kg	☼	05/26/20 17:13	05/27/20 15:38	1
Toluene	1.52	U	5.51	1.52	ug/Kg	☼	05/26/20 17:13	05/27/20 15:38	1
Xylenes, Total	1.25	U	5.51	1.25	ug/Kg	☼	05/26/20 17:13	05/27/20 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130	05/26/20 17:13	05/27/20 15:38	1
4-Bromofluorobenzene	103		57 - 140	05/26/20 17:13	05/27/20 15:38	1
Dibromofluoromethane	80		68 - 140	05/26/20 17:13	05/27/20 15:38	1
Toluene-d8 (Surr)	103		50 - 130	05/26/20 17:13	05/27/20 15:38	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-1-1'-6"

Lab Sample ID: 600-205599-2

Date Collected: 05/20/20 10:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 91.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.664	U	1.13	0.664	mg/Kg	☼	05/23/20 07:38	05/23/20 09:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 130				05/23/20 07:38	05/23/20 09:36	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]	12.3	J	13.5	2.79	mg/Kg	☼	06/02/20 08:02	06/02/20 17:14	1
Oil Range Organics (C28-C36)	115		13.5	8.15	mg/Kg	☼	06/02/20 08:02	06/02/20 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		60 - 140				06/02/20 08:02	06/02/20 17:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		8.75	1.17	mg/Kg	☼		06/03/20 18:03	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.6		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	91.4		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-2-0"-6"

Lab Sample ID: 600-205599-3

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.724	J	5.18	0.653	ug/Kg	☼	05/26/20 17:13	05/27/20 16:03	1
Ethylbenzene	1.06	U	5.18	1.06	ug/Kg	☼	05/26/20 17:13	05/27/20 16:03	1
Toluene	1.43	U	5.18	1.43	ug/Kg	☼	05/26/20 17:13	05/27/20 16:03	1
Xylenes, Total	1.17	U	5.18	1.17	ug/Kg	☼	05/26/20 17:13	05/27/20 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 130				05/26/20 17:13	05/27/20 16:03	1
4-Bromofluorobenzene	95		57 - 140				05/26/20 17:13	05/27/20 16:03	1
Dibromofluoromethane	95		68 - 140				05/26/20 17:13	05/27/20 16:03	1
Toluene-d8 (Surr)	98		50 - 130				05/26/20 17:13	05/27/20 16:03	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]	0.662	U	1.13	0.662	mg/Kg	☼	05/23/20 07:38	05/23/20 10:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130				05/23/20 07:38	05/23/20 10:01	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]	23.4		12.9	2.65	mg/Kg	☼	06/02/20 08:02	06/03/20 08:37	1
Oil Range Organics (C28-C36)	180		12.9	7.75	mg/Kg	☼	06/02/20 08:02	06/03/20 08:37	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-2-0"-6"

Lab Sample ID: 600-205599-3

Date Collected: 05/20/20 11:10

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.3

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	121		60 - 140				06/02/20 08:02	06/03/20 08:37	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		8.31	1.11	mg/Kg	☼		06/03/20 18:24	2
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.7		1.0	1.0	%	-		05/27/20 09:47	1
Percent Solids	96.3		1.0	1.0	%	-		05/27/20 09:47	1

Client Sample ID: HA-2-2'

Lab Sample ID: 600-205599-4

Date Collected: 05/20/20 11:20

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.701	U	5.57	0.701	ug/Kg	☼	05/27/20 17:00	05/30/20 14:21	1
Ethylbenzene	1.14	U	5.57	1.14	ug/Kg	☼	05/27/20 17:00	05/30/20 14:21	1
Toluene	1.54	U	5.57	1.54	ug/Kg	☼	05/27/20 17:00	05/30/20 14:21	1
Xylenes, Total	1.26	U	5.57	1.26	ug/Kg	☼	05/27/20 17:00	05/30/20 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		61 - 130				05/27/20 17:00	05/30/20 14:21	1
4-Bromofluorobenzene	89		57 - 140				05/27/20 17:00	05/30/20 14:21	1
Dibromofluoromethane	89		68 - 140				05/27/20 17:00	05/30/20 14:21	1
Toluene-d8 (Surr)	104		50 - 130				05/27/20 17:00	05/30/20 14:21	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]	0.636	U	1.09	0.636	mg/Kg	☼	05/23/20 07:38	05/23/20 10:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				05/23/20 07:38	05/23/20 10:25	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]	16.8		13.7	2.83	mg/Kg	☼	06/02/20 08:02	06/03/20 09:10	1
Oil Range Organics (C28-C36)	98.8		13.7	8.27	mg/Kg	☼	06/02/20 08:02	06/03/20 09:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	109		60 - 140				06/02/20 08:02	06/03/20 09:10	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		44.5	5.94	mg/Kg	☼		06/03/20 18:44	10
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	89.8		1.0	1.0	%			05/27/20 09:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-2-4'

Date Collected: 05/20/20 11:30

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-5

Matrix: Solid

Percent Solids: 84.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.689	U	5.47	0.689	ug/Kg	☼	05/27/20 17:00	05/30/20 14:46	1
Ethylbenzene	1.12	U	5.47	1.12	ug/Kg	☼	05/27/20 17:00	05/30/20 14:46	1
Toluene	1.51	U	5.47	1.51	ug/Kg	☼	05/27/20 17:00	05/30/20 14:46	1
Xylenes, Total	1.24	U	5.47	1.24	ug/Kg	☼	05/27/20 17:00	05/30/20 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 17:00	05/30/20 14:46	1
4-Bromofluorobenzene	89		57 - 140	05/27/20 17:00	05/30/20 14:46	1
Dibromofluoromethane	88		68 - 140	05/27/20 17:00	05/30/20 14:46	1
Toluene-d8 (Surr)	104		50 - 130	05/27/20 17:00	05/30/20 14:46	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]	0.684	U	1.17	0.684	mg/Kg	☼	05/23/20 07:38	05/23/20 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130	05/23/20 07:38	05/23/20 10:49	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]	107		14.7	3.02	mg/Kg	☼	06/02/20 08:02	06/02/20 17:48	1
Oil Range Organics (C28-C36)	66.7		14.7	8.83	mg/Kg	☼	06/02/20 08:02	06/02/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		60 - 140	06/02/20 08:02	06/02/20 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4750		471	62.9	mg/Kg	☼		06/03/20 19:05	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	84.9		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-3-0"-6"

Date Collected: 05/20/20 11:45

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-6

Matrix: Solid

Percent Solids: 97.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.642	U	5.10	0.642	ug/Kg	☼	05/27/20 17:00	05/30/20 15:10	1
Ethylbenzene	1.04	U	5.10	1.04	ug/Kg	☼	05/27/20 17:00	05/30/20 15:10	1
Toluene	1.41	U	5.10	1.41	ug/Kg	☼	05/27/20 17:00	05/30/20 15:10	1
Xylenes, Total	1.15	U	5.10	1.15	ug/Kg	☼	05/27/20 17:00	05/30/20 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/27/20 17:00	05/30/20 15:10	1
4-Bromofluorobenzene	108		57 - 140	05/27/20 17:00	05/30/20 15:10	1
Dibromofluoromethane	93		68 - 140	05/27/20 17:00	05/30/20 15:10	1
Toluene-d8 (Surr)	109		50 - 130	05/27/20 17:00	05/30/20 15:10	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-3-0"-6"

Lab Sample ID: 600-205599-6

Date Collected: 05/20/20 11:45

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 97.9

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	☼	05/23/20 07:38	05/23/20 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	109		70 - 130	05/23/20 07:38	05/23/20 11:13	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]	2.61	U	12.7	2.61	mg/Kg	☼	06/02/20 08:02	06/02/20 18:21	1

Oil Range Organics (C28-C36)	7.64	U	12.7	7.64	mg/Kg	☼	06/02/20 08:02	06/02/20 18:21	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	108		60 - 140	06/02/20 08:02	06/02/20 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684		20.4	2.73	mg/Kg	☼		06/03/20 19:25	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
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Percent Moisture	2.1		1.0	1.0	%			05/27/20 09:47	1
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Percent Solids	97.9		1.0	1.0	%			05/27/20 09:47	1
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Client Sample ID: HA-3-2'

Lab Sample ID: 600-205599-7

Date Collected: 05/20/20 11:55

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.687	U	5.45	0.687	ug/Kg	☼	05/26/20 17:13	05/30/20 15:34	1
Ethylbenzene	1.11	U	5.45	1.11	ug/Kg	☼	05/26/20 17:13	05/30/20 15:34	1
Toluene	1.50	U	5.45	1.50	ug/Kg	☼	05/26/20 17:13	05/30/20 15:34	1
Xylenes, Total	1.23	U	5.45	1.23	ug/Kg	☼	05/26/20 17:13	05/30/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/26/20 17:13	05/30/20 15:34	1
4-Bromofluorobenzene	100		57 - 140	05/26/20 17:13	05/30/20 15:34	1
Dibromofluoromethane	87		68 - 140	05/26/20 17:13	05/30/20 15:34	1
Toluene-d8 (Surr)	100		50 - 130	05/26/20 17:13	05/30/20 15:34	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]	0.630	U	1.07	0.630	mg/Kg	☼	05/23/20 07:38	05/23/20 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	05/23/20 07:38	05/23/20 11:38	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]	2.78	U	13.5	2.78	mg/Kg	☼	06/02/20 08:02	06/02/20 18:55	1

Oil Range Organics (C28-C36)	8.13	U	13.5	8.13	mg/Kg	☼	06/02/20 08:02	06/02/20 18:55	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-3-2'

Date Collected: 05/20/20 11:55

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-7

Matrix: Solid

Percent Solids: 92.1

Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	96		60 - 140					06/02/20 08:02	06/02/20 18:55	1
Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2120		43.4	5.80	mg/Kg	☼		06/03/20 20:26	10	
General Chemistry										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture	7.9		1.0	1.0	%	—		05/27/20 09:47	1	
Percent Solids	92.1		1.0	1.0	%	—		05/27/20 09:47	1	

Client Sample ID: HA-4-0"-6"

Date Collected: 05/20/20 12:10

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-8

Matrix: Solid

Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.682	U	5.41	0.682	ug/Kg	☼	05/26/20 17:13	05/30/20 15:58	1
Ethylbenzene	1.10	U	5.41	1.10	ug/Kg	☼	05/26/20 17:13	05/30/20 15:58	1
Toluene	1.49	U	5.41	1.49	ug/Kg	☼	05/26/20 17:13	05/30/20 15:58	1
Xylenes, Total	1.22	U	5.41	1.22	ug/Kg	☼	05/26/20 17:13	05/30/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/26/20 17:13	05/30/20 15:58	1
4-Bromofluorobenzene	114		57 - 140	05/26/20 17:13	05/30/20 15:58	1
Dibromofluoromethane	85		68 - 140	05/26/20 17:13	05/30/20 15:58	1
Toluene-d8 (Surr)	92		50 - 130	05/26/20 17:13	05/30/20 15:58	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]	0.664	U	1.13	0.664	mg/Kg	☼	05/23/20 07:38	05/23/20 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	116		70 - 130	05/23/20 07:38	05/23/20 12:02	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]	2.76	U	13.4	2.76	mg/Kg	☼	06/02/20 08:02	06/02/20 19:29	1
Oil Range Organics (C28-C36)	8.06	U	13.4	8.06	mg/Kg	☼	06/02/20 08:02	06/02/20 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		60 - 140	06/02/20 08:02	06/02/20 19:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		4.33	0.578	mg/Kg	☼		06/03/20 20:47	1

General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	92.3		1.0	1.0	%	—		05/27/20 09:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-4-1'

Lab Sample ID: 600-205599-9

Date Collected: 05/20/20 12:20

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 67.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.938	U	7.44	0.938	ug/Kg	☼	05/26/20 17:13	05/30/20 16:23	1
Ethylbenzene	1.52	U	7.44	1.52	ug/Kg	☼	05/26/20 17:13	05/30/20 16:23	1
Toluene	2.05	U	7.44	2.05	ug/Kg	☼	05/26/20 17:13	05/30/20 16:23	1
Xylenes, Total	1.68	U	7.44	1.68	ug/Kg	☼	05/26/20 17:13	05/30/20 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/26/20 17:13	05/30/20 16:23	1
4-Bromofluorobenzene	95		57 - 140	05/26/20 17:13	05/30/20 16:23	1
Dibromofluoromethane	85		68 - 140	05/26/20 17:13	05/30/20 16:23	1
Toluene-d8 (Surr)	93		50 - 130	05/26/20 17:13	05/30/20 16:23	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]	0.922	U	1.57	0.922	mg/Kg	☼	05/23/20 07:38	05/23/20 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130	05/23/20 07:38	05/23/20 12:26	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]	12.1	J F2 F1	18.3	3.77	mg/Kg	☼	06/02/20 08:02	06/02/20 20:02	1
Oil Range Organics (C28-C36)	51.9		18.3	11.0	mg/Kg	☼	06/02/20 08:02	06/02/20 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	94		60 - 140	06/02/20 08:02	06/02/20 20:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		11.9	1.58	mg/Kg	☼		06/03/20 21:07	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	32.6		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	67.4		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-5-0"-6"

Lab Sample ID: 600-205599-10

Date Collected: 05/20/20 12:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.782	U	6.20	0.782	ug/Kg	☼	05/26/20 17:13	05/30/20 16:47	1
Ethylbenzene	1.27	U	6.20	1.27	ug/Kg	☼	05/26/20 17:13	05/30/20 16:47	1
Toluene	1.71	U	6.20	1.71	ug/Kg	☼	05/26/20 17:13	05/30/20 16:47	1
Xylenes, Total	1.40	U	6.20	1.40	ug/Kg	☼	05/26/20 17:13	05/30/20 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 130	05/26/20 17:13	05/30/20 16:47	1
4-Bromofluorobenzene	103		57 - 140	05/26/20 17:13	05/30/20 16:47	1
Dibromofluoromethane	89		68 - 140	05/26/20 17:13	05/30/20 16:47	1
Toluene-d8 (Surr)	80		50 - 130	05/26/20 17:13	05/30/20 16:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-5-0"-6"

Lab Sample ID: 600-205599-10

Date Collected: 05/20/20 12:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.740	U	1.26	0.740	mg/Kg	☼	05/23/20 07:38	05/23/20 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		70 - 130	05/23/20 07:38	05/23/20 12:51	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]	3.20	U	15.5	3.20	mg/Kg	☼	06/02/20 08:02	06/02/20 22:15	1

Oil Range Organics (C28-C36)	9.34	U	15.5	9.34	mg/Kg	☼	06/02/20 08:02	06/02/20 22:15	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	120		60 - 140	06/02/20 08:02	06/02/20 22:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.86		4.99	0.667	mg/Kg	☼		06/03/20 21:27	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.9		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	80.1		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-5-1'

Lab Sample ID: 600-205599-11

Date Collected: 05/20/20 12:45

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 81.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.776	U	6.16	0.776	ug/Kg	☼	05/26/20 17:13	05/30/20 17:11	1
Ethylbenzene	1.26	U	6.16	1.26	ug/Kg	☼	05/26/20 17:13	05/30/20 17:11	1
Toluene	1.70	U	6.16	1.70	ug/Kg	☼	05/26/20 17:13	05/30/20 17:11	1
Xylenes, Total	1.39	U	6.16	1.39	ug/Kg	☼	05/26/20 17:13	05/30/20 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130	05/26/20 17:13	05/30/20 17:11	1
4-Bromofluorobenzene	102		57 - 140	05/26/20 17:13	05/30/20 17:11	1
Dibromofluoromethane	87		68 - 140	05/26/20 17:13	05/30/20 17:11	1
Toluene-d8 (Surr)	106		50 - 130	05/26/20 17:13	05/30/20 17:11	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]	0.705	U	1.20	0.705	mg/Kg	☼	05/23/20 07:38	05/23/20 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	81		70 - 130	05/23/20 07:38	05/23/20 13:39	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]	13.4	J	15.3	3.15	mg/Kg	☼	06/02/20 08:02	06/02/20 22:48	1

Oil Range Organics (C28-C36)	9.21	U	15.3	9.21	mg/Kg	☼	06/02/20 08:02	06/02/20 22:48	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-5-1'

Date Collected: 05/20/20 12:45

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-11

Matrix: Solid

Percent Solids: 81.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		60 - 140	06/02/20 08:02	06/02/20 22:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1	F1	4.93	0.658	mg/Kg	☼		06/03/20 21:48	1

General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	81.1		1.0	1.0	%	—		05/27/20 09:47	1

Client Sample ID: HA-6-0"-6"

Date Collected: 05/20/20 13:00

Date Received: 05/22/20 10:10

Lab Sample ID: 600-205599-12

Matrix: Solid

Percent Solids: 97.5

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.651	U	5.17	0.651	ug/Kg	☼	05/27/20 12:00	05/30/20 17:35	1
Ethylbenzene	1.05	U	5.17	1.05	ug/Kg	☼	05/27/20 12:00	05/30/20 17:35	1
Toluene	1.43	U	5.17	1.43	ug/Kg	☼	05/27/20 12:00	05/30/20 17:35	1
Xylenes, Total	1.17	U	5.17	1.17	ug/Kg	☼	05/27/20 12:00	05/30/20 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 12:00	05/30/20 17:35	1
4-Bromofluorobenzene	110		57 - 140	05/27/20 12:00	05/30/20 17:35	1
Dibromofluoromethane	84		68 - 140	05/27/20 12:00	05/30/20 17:35	1
Toluene-d8 (Surr)	81		50 - 130	05/27/20 12:00	05/30/20 17:35	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]	0.583	U	0.995	0.583	mg/Kg	☼	05/23/20 07:38	05/23/20 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	107		70 - 130	05/23/20 07:38	05/23/20 14:04	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]	6.36	J	12.7	2.61	mg/Kg	☼	06/02/20 08:02	06/02/20 23:21	1
Oil Range Organics (C28-C36)	7.63	U	12.7	7.63	mg/Kg	☼	06/02/20 08:02	06/02/20 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	116		60 - 140	06/02/20 08:02	06/02/20 23:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4		8.21	1.10	mg/Kg	☼		06/03/20 22:49	2

General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.5		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	97.5		1.0	1.0	%	—		05/27/20 09:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-6-1'

Lab Sample ID: 600-205599-13

Date Collected: 05/20/20 13:10

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.665	U	5.27	0.665	ug/Kg	☼	05/27/20 12:00	05/30/20 18:00	1
Ethylbenzene	1.08	U	5.27	1.08	ug/Kg	☼	05/27/20 12:00	05/30/20 18:00	1
Toluene	1.46	U	5.27	1.46	ug/Kg	☼	05/27/20 12:00	05/30/20 18:00	1
Xylenes, Total	1.19	U	5.27	1.19	ug/Kg	☼	05/27/20 12:00	05/30/20 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130	05/27/20 12:00	05/30/20 18:00	1
4-Bromofluorobenzene	114		57 - 140	05/27/20 12:00	05/30/20 18:00	1
Dibromofluoromethane	87		68 - 140	05/27/20 12:00	05/30/20 18:00	1
Toluene-d8 (Surr)	109		50 - 130	05/27/20 12:00	05/30/20 18:00	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]	0.603	U	1.03	0.603	mg/Kg	☼	05/23/20 07:38	05/23/20 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		70 - 130	05/23/20 07:38	05/23/20 14:28	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]	2.75	U	13.3	2.75	mg/Kg	☼	06/02/20 08:02	06/02/20 23:54	1
Oil Range Organics (C28-C36)	8.03	U	13.3	8.03	mg/Kg	☼	06/02/20 08:02	06/02/20 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	119		60 - 140	06/02/20 08:02	06/02/20 23:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.6		8.64	1.15	mg/Kg	☼		06/03/20 23:09	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	92.6		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-7-0"-6"

Lab Sample ID: 600-205599-14

Date Collected: 05/20/20 13:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 98.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.0		5.14	0.647	ug/Kg	☼	05/27/20 12:00	05/30/20 18:24	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	☼	05/27/20 12:00	05/30/20 18:24	1
Toluene	1.84	J	5.14	1.42	ug/Kg	☼	05/27/20 12:00	05/30/20 18:24	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	☼	05/27/20 12:00	05/30/20 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 12:00	05/30/20 18:24	1
4-Bromofluorobenzene	101		57 - 140	05/27/20 12:00	05/30/20 18:24	1
Dibromofluoromethane	80		68 - 140	05/27/20 12:00	05/30/20 18:24	1
Toluene-d8 (Surr)	105		50 - 130	05/27/20 12:00	05/30/20 18:24	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-7-0"-6"

Lab Sample ID: 600-205599-14

Date Collected: 05/20/20 13:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 98.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.614	U	1.05	0.614	mg/Kg	☼	05/23/20 07:38	05/23/20 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	114		70 - 130				05/23/20 07:38	05/23/20 14:53	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]	61.1		12.6	2.59	mg/Kg	☼	06/02/20 08:02	06/03/20 00:27	1
Oil Range Organics (C28-C36)	202		12.6	7.58	mg/Kg	☼	06/02/20 08:02	06/03/20 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	106		60 - 140				06/02/20 08:02	06/03/20 00:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		8.15	1.09	mg/Kg	☼		06/03/20 23:30	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	98.1		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-7-2'

Lab Sample ID: 600-205599-15

Date Collected: 05/20/20 13:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 91.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.06	J	5.44	0.686	ug/Kg	☼	05/27/20 12:00	05/30/20 18:48	1
Ethylbenzene	1.11	U	5.44	1.11	ug/Kg	☼	05/27/20 12:00	05/30/20 18:48	1
Toluene	1.50	U	5.44	1.50	ug/Kg	☼	05/27/20 12:00	05/30/20 18:48	1
Xylenes, Total	1.23	U	5.44	1.23	ug/Kg	☼	05/27/20 12:00	05/30/20 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130				05/27/20 12:00	05/30/20 18:48	1
4-Bromofluorobenzene	101		57 - 140				05/27/20 12:00	05/30/20 18:48	1
Dibromofluoromethane	85		68 - 140				05/27/20 12:00	05/30/20 18:48	1
Toluene-d8 (Surr)	98		50 - 130				05/27/20 12:00	05/30/20 18:48	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]	0.641	U	1.09	0.641	mg/Kg	☼	05/23/20 07:38	05/23/20 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	110		70 - 130				05/23/20 07:38	05/23/20 15:18	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]	11.2	J	13.5	2.78	mg/Kg	☼	06/02/20 08:02	06/03/20 01:00	1
Oil Range Organics (C28-C36)	110		13.5	8.13	mg/Kg	☼	06/02/20 08:02	06/03/20 01:00	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-7-2'

Lab Sample ID: 600-205599-15

Date Collected: 05/20/20 13:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	120		60 - 140				06/02/20 08:02	06/03/20 01:00	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2590		43.7	5.83	mg/Kg	☼		06/04/20 00:31	10
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	91.5		1.0	1.0	%	—		05/27/20 09:47	1

Client Sample ID: HA-7-4'

Lab Sample ID: 600-205599-16

Date Collected: 05/20/20 14:00

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.648	U	5.14	0.648	ug/Kg	☼	05/27/20 12:00	05/30/20 19:13	1
Ethylbenzene	1.05	U	5.14	1.05	ug/Kg	☼	05/27/20 12:00	05/30/20 19:13	1
Toluene	1.42	U	5.14	1.42	ug/Kg	☼	05/27/20 12:00	05/30/20 19:13	1
Xylenes, Total	1.16	U	5.14	1.16	ug/Kg	☼	05/27/20 12:00	05/30/20 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		61 - 130				05/27/20 12:00	05/30/20 19:13	1
4-Bromofluorobenzene	97		57 - 140				05/27/20 12:00	05/30/20 19:13	1
Dibromofluoromethane	83		68 - 140				05/27/20 12:00	05/30/20 19:13	1
Toluene-d8 (Surr)	112		50 - 130				05/27/20 12:00	05/30/20 19:13	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]	0.677	U	1.16	0.677	mg/Kg	☼	05/23/20 07:38	05/23/20 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130				05/23/20 07:38	05/23/20 15:42	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]	2.73	U	13.2	2.73	mg/Kg	☼	06/02/20 08:02	06/03/20 01:33	1
Oil Range Organics (C28-C36)	55.2		13.2	7.98	mg/Kg	☼	06/02/20 08:02	06/03/20 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	112		60 - 140				06/02/20 08:02	06/03/20 01:33	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940		42.8	5.71	mg/Kg	☼		06/04/20 00:52	10
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.5		1.0	1.0	%	—		05/27/20 09:47	1
Percent Solids	93.5		1.0	1.0	%	—		05/27/20 09:47	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-7-6'

Lab Sample ID: 600-205599-17

Date Collected: 05/20/20 14:10

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 68.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.894	U	7.09	0.894	ug/Kg	☼	05/27/20 12:00	05/30/20 19:37	1
Ethylbenzene	1.45	U	7.09	1.45	ug/Kg	☼	05/27/20 12:00	05/30/20 19:37	1
Toluene	1.96	U	7.09	1.96	ug/Kg	☼	05/27/20 12:00	05/30/20 19:37	1
Xylenes, Total	1.60	U	7.09	1.60	ug/Kg	☼	05/27/20 12:00	05/30/20 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 12:00	05/30/20 19:37	1
4-Bromofluorobenzene	102		57 - 140	05/27/20 12:00	05/30/20 19:37	1
Dibromofluoromethane	85		68 - 140	05/27/20 12:00	05/30/20 19:37	1
Toluene-d8 (Surr)	113		50 - 130	05/27/20 12:00	05/30/20 19:37	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]	0.851	U	1.45	0.851	mg/Kg	☼	05/23/20 07:38	05/23/20 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	05/23/20 07:38	05/23/20 16:07	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]	3.71	U	18.0	3.71	mg/Kg	☼	06/02/20 08:02	06/03/20 02:06	1
Oil Range Organics (C28-C36)	10.8	U	18.0	10.8	mg/Kg	☼	06/02/20 08:02	06/03/20 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	51	X	60 - 140	06/02/20 08:02	06/03/20 02:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		29.1	3.89	mg/Kg	☼		06/04/20 01:12	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.3		1.0	1.0	%			05/27/20 09:47	1
Percent Solids	68.7		1.0	1.0	%			05/27/20 09:47	1

Client Sample ID: HA-20-0"-6"

Lab Sample ID: 600-205599-18

Date Collected: 05/20/20 13:25

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.738	U	5.85	0.738	ug/Kg	☼	05/27/20 12:00	05/30/20 20:01	1
Ethylbenzene	1.19	U	5.85	1.19	ug/Kg	☼	05/27/20 12:00	05/30/20 20:01	1
Toluene	1.62	U	5.85	1.62	ug/Kg	☼	05/27/20 12:00	05/30/20 20:01	1
Xylenes, Total	1.32	U	5.85	1.32	ug/Kg	☼	05/27/20 12:00	05/30/20 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/27/20 12:00	05/30/20 20:01	1
4-Bromofluorobenzene	104		57 - 140	05/27/20 12:00	05/30/20 20:01	1
Dibromofluoromethane	88		68 - 140	05/27/20 12:00	05/30/20 20:01	1
Toluene-d8 (Surr)	97		50 - 130	05/27/20 12:00	05/30/20 20:01	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-20-0"-6"

Lab Sample ID: 600-205599-18

Date Collected: 05/20/20 13:25

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 82.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.671	U	1.15	0.671	mg/Kg	☼	05/23/20 07:38	05/23/20 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		70 - 130				05/23/20 07:38	05/23/20 16:32	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]	41.9		15.1	3.11	mg/Kg	☼	06/02/20 08:02	06/03/20 02:40	1
Oil Range Organics (C28-C36)	37.8		15.1	9.10	mg/Kg	☼	06/02/20 08:02	06/03/20 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		60 - 140				06/02/20 08:02	06/03/20 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		9.72	1.30	mg/Kg	☼		06/04/20 01:32	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.7		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	82.3		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-9-0"-6"

Lab Sample ID: 600-205599-19

Date Collected: 05/20/20 14:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.645	U	5.12	0.645	ug/Kg	☼	05/27/20 12:00	05/30/20 20:25	1
Ethylbenzene	1.04	U	5.12	1.04	ug/Kg	☼	05/27/20 12:00	05/30/20 20:25	1
Toluene	1.41	U	5.12	1.41	ug/Kg	☼	05/27/20 12:00	05/30/20 20:25	1
Xylenes, Total	1.16	U	5.12	1.16	ug/Kg	☼	05/27/20 12:00	05/30/20 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		61 - 130				05/27/20 12:00	05/30/20 20:25	1
4-Bromofluorobenzene	86		57 - 140				05/27/20 12:00	05/30/20 20:25	1
Dibromofluoromethane	83		68 - 140				05/27/20 12:00	05/30/20 20:25	1
Toluene-d8 (Surr)	116		50 - 130				05/27/20 12:00	05/30/20 20:25	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]	0.634	U	1.08	0.634	mg/Kg	☼	05/23/20 07:38	05/23/20 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 130				05/23/20 07:38	05/23/20 16:56	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]	35.2		12.8	2.63	mg/Kg	☼	06/02/20 08:02	06/03/20 03:46	1
Oil Range Organics (C28-C36)	62.7		12.8	7.69	mg/Kg	☼	06/02/20 08:02	06/03/20 03:46	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-9-0"-6"

Lab Sample ID: 600-205599-19

Date Collected: 05/20/20 14:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.8

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		60 - 140				06/02/20 08:02	06/03/20 03:46	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		413	55.2	mg/Kg	☼		06/04/20 01:53	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		1.0	1.0	%	—		05/27/20 10:02	1
Percent Solids	96.8		1.0	1.0	%	—		05/27/20 10:02	1

Client Sample ID: HA-9-2'

Lab Sample ID: 600-205599-20

Date Collected: 05/20/20 14:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 73.3

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.93	J	6.84	0.862	ug/Kg	☼	05/27/20 12:00	05/30/20 09:00	1
Ethylbenzene	1.40	U	6.84	1.40	ug/Kg	☼	05/27/20 12:00	05/30/20 09:00	1
Toluene	1.89	U	6.84	1.89	ug/Kg	☼	05/27/20 12:00	05/30/20 09:00	1
Xylenes, Total	1.55	U	6.84	1.55	ug/Kg	☼	05/27/20 12:00	05/30/20 09:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		61 - 130				05/27/20 12:00	05/30/20 09:00	1
4-Bromofluorobenzene	104		57 - 140				05/27/20 12:00	05/30/20 09:00	1
Dibromofluoromethane	83		68 - 140				05/27/20 12:00	05/30/20 09:00	1
Toluene-d8 (Surr)	89		50 - 130				05/27/20 12:00	05/30/20 09:00	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]	0.804	U	1.37	0.804	mg/Kg	☼	05/23/20 07:38	05/23/20 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	88		70 - 130				05/23/20 07:38	05/23/20 17:21	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]	3.48	U	16.9	3.48	mg/Kg	☼	06/02/20 08:02	06/03/20 04:19	1
Oil Range Organics (C28-C36)	57.0		16.9	10.2	mg/Kg	☼	06/02/20 08:02	06/03/20 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		60 - 140				06/02/20 08:02	06/03/20 04:19	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		109	14.6	mg/Kg	☼		06/04/20 02:13	20
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		1.0	1.0	%	—		05/27/20 10:02	1
Percent Solids	73.3		1.0	1.0	%	—		05/27/20 10:02	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-9-4"

Lab Sample ID: 600-205599-21

Date Collected: 05/20/20 14:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 70.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.44	J	6.58	0.829	ug/Kg	☼	05/27/20 12:00	05/30/20 09:22	1
Ethylbenzene	1.34	U	6.58	1.34	ug/Kg	☼	05/27/20 12:00	05/30/20 09:22	1
Toluene	1.82	U	6.58	1.82	ug/Kg	☼	05/27/20 12:00	05/30/20 09:22	1
Xylenes, Total	1.49	U	6.58	1.49	ug/Kg	☼	05/27/20 12:00	05/30/20 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		61 - 130	05/27/20 12:00	05/30/20 09:22	1
4-Bromofluorobenzene	104		57 - 140	05/27/20 12:00	05/30/20 09:22	1
Dibromofluoromethane	81		68 - 140	05/27/20 12:00	05/30/20 09:22	1
Toluene-d8 (Surr)	92		50 - 130	05/27/20 12:00	05/30/20 09:22	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]	0.865	U	1.48	0.865	mg/Kg	☼	05/23/20 10:19	05/28/20 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130	05/23/20 10:19	05/28/20 13:49	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]	3.63	U	17.6	3.63	mg/Kg	☼	06/02/20 15:07	06/03/20 16:38	1
Oil Range Organics (C28-C36)	102		17.6	10.6	mg/Kg	☼	06/02/20 15:07	06/03/20 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	61		60 - 140	06/02/20 15:07	06/03/20 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1860		56.7	7.57	mg/Kg	☼		06/04/20 14:11	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.4		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	70.6		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-10-0"-6"

Lab Sample ID: 600-205599-22

Date Collected: 05/20/20 15:05

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 98.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.745	J	5.05	0.636	ug/Kg	☼	05/27/20 12:00	05/30/20 09:44	1
Ethylbenzene	1.03	U	5.05	1.03	ug/Kg	☼	05/27/20 12:00	05/30/20 09:44	1
Toluene	1.39	U	5.05	1.39	ug/Kg	☼	05/27/20 12:00	05/30/20 09:44	1
Xylenes, Total	1.14	U	5.05	1.14	ug/Kg	☼	05/27/20 12:00	05/30/20 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130	05/27/20 12:00	05/30/20 09:44	1
4-Bromofluorobenzene	106		57 - 140	05/27/20 12:00	05/30/20 09:44	1
Dibromofluoromethane	83		68 - 140	05/27/20 12:00	05/30/20 09:44	1
Toluene-d8 (Surr)	89		50 - 130	05/27/20 12:00	05/30/20 09:44	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-10-0"-6"

Lab Sample ID: 600-205599-22

Date Collected: 05/20/20 15:05

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 98.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.637	U	1.09	0.637	mg/Kg	☼	05/23/20 10:19	05/28/20 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	112		70 - 130	05/23/20 10:19	05/28/20 14:13	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]	2.62	U	12.7	2.62	mg/Kg	☼	06/02/20 15:07	06/03/20 18:21	1

Oil Range Organics (C28-C36)	95.5		12.7	7.65	mg/Kg	☼	06/02/20 15:07	06/03/20 18:21	1
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	96		60 - 140	06/02/20 15:07	06/03/20 18:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7390		408	54.5	mg/Kg	☼		06/04/20 15:11	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	98.0		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-11-0"-6"

Lab Sample ID: 600-205599-23

Date Collected: 05/20/20 15:20

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 93.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.03	J	5.24	0.660	ug/Kg	☼	05/27/20 12:00	05/30/20 10:07	1
Ethylbenzene	1.07	U	5.24	1.07	ug/Kg	☼	05/27/20 12:00	05/30/20 10:07	1
Toluene	1.45	U	5.24	1.45	ug/Kg	☼	05/27/20 12:00	05/30/20 10:07	1
Xylenes, Total	1.18	U	5.24	1.18	ug/Kg	☼	05/27/20 12:00	05/30/20 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		61 - 130	05/27/20 12:00	05/30/20 10:07	1
4-Bromofluorobenzene	104		57 - 140	05/27/20 12:00	05/30/20 10:07	1
Dibromofluoromethane	82		68 - 140	05/27/20 12:00	05/30/20 10:07	1
Toluene-d8 (Surr)	87		50 - 130	05/27/20 12:00	05/30/20 10:07	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]	0.618	U	1.05	0.618	mg/Kg	☼	05/23/20 10:19	05/28/20 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	05/23/20 10:19	05/28/20 14:38	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]	57.2		13.2	2.71	mg/Kg	☼	06/02/20 15:07	06/03/20 18:56	1

Oil Range Organics (C28-C36)	458		13.2	7.92	mg/Kg	☼	06/02/20 15:07	06/03/20 18:56	1
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Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-11-0"-6"

Lab Sample ID: 600-205599-23

Date Collected: 05/20/20 15:20

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 93.9

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	103		60 - 140				06/02/20 15:07	06/03/20 18:56	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6300		426	56.9	mg/Kg	☼		06/04/20 15:32	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.1		1.0	1.0	%	-		05/27/20 10:02	1
Percent Solids	93.9		1.0	1.0	%	-		05/27/20 10:02	1

Client Sample ID: HA-11-2'

Lab Sample ID: 600-205599-24

Date Collected: 05/20/20 15:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.46	J	6.25	0.788	ug/Kg	☼	05/27/20 12:00	05/30/20 10:29	1
Ethylbenzene	1.28	U	6.25	1.28	ug/Kg	☼	05/27/20 12:00	05/30/20 10:29	1
Toluene	1.73	U	6.25	1.73	ug/Kg	☼	05/27/20 12:00	05/30/20 10:29	1
Xylenes, Total	1.41	U	6.25	1.41	ug/Kg	☼	05/27/20 12:00	05/30/20 10:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130				05/27/20 12:00	05/30/20 10:29	1
4-Bromofluorobenzene	106		57 - 140				05/27/20 12:00	05/30/20 10:29	1
Dibromofluoromethane	83		68 - 140				05/27/20 12:00	05/30/20 10:29	1
Toluene-d8 (Surr)	89		50 - 130				05/27/20 12:00	05/30/20 10:29	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]	0.805	U	1.37	0.805	mg/Kg	☼	05/23/20 10:19	05/28/20 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		70 - 130				05/23/20 10:19	05/28/20 15:02	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]	13.7	J	15.8	3.25	mg/Kg	☼	06/02/20 15:07	06/03/20 19:30	1
Oil Range Organics (C28-C36)	192		15.8	9.52	mg/Kg	☼	06/02/20 15:07	06/03/20 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		60 - 140				06/02/20 15:07	06/03/20 19:30	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7870		511	68.2	mg/Kg	☼		06/04/20 15:52	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.7		1.0	1.0	%	—		05/27/20 10:02	1
Percent Solids	78.3		1.0	1.0	%			05/27/20 10:02	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-11-4'

Lab Sample ID: 600-205599-25

Date Collected: 05/20/20 15:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 69.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.01	J	7.06	0.890	ug/Kg	☼	05/27/20 12:00	05/30/20 10:51	1
Ethylbenzene	1.44	U	7.06	1.44	ug/Kg	☼	05/27/20 12:00	05/30/20 10:51	1
Toluene	1.95	U	7.06	1.95	ug/Kg	☼	05/27/20 12:00	05/30/20 10:51	1
Xylenes, Total	1.60	U	7.06	1.60	ug/Kg	☼	05/27/20 12:00	05/30/20 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		61 - 130				05/27/20 12:00	05/30/20 10:51	1
4-Bromofluorobenzene	103		57 - 140				05/27/20 12:00	05/30/20 10:51	1
Dibromofluoromethane	80		68 - 140				05/27/20 12:00	05/30/20 10:51	1
Toluene-d8 (Surr)	89		50 - 130				05/27/20 12:00	05/30/20 10:51	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]	0.891	U	1.52	0.891	mg/Kg	☼	05/23/20 10:19	05/28/20 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130				05/23/20 10:19	05/28/20 15:34	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]	14.0	J	17.8	3.67	mg/Kg	☼	06/02/20 15:07	06/03/20 20:05	1
Diesel Range Organics [C10-C28]	7.36	U H	35.7	7.36	mg/Kg	☼	06/08/20 12:04	06/09/20 16:26	1
Oil Range Organics (C28-C36)	149		17.8	10.7	mg/Kg	☼	06/02/20 15:07	06/03/20 20:05	1
Oil Range Organics (C28-C36)	127	H	35.7	21.5	mg/Kg	☼	06/08/20 12:04	06/09/20 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	40	X	60 - 140				06/02/20 15:07	06/03/20 20:05	1
o-Terphenyl	100		60 - 140				06/08/20 12:04	06/09/20 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3920		144	19.2	mg/Kg	☼		06/04/20 16:13	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.3		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	69.7		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-12-0"-6"

Lab Sample ID: 600-205599-26

Date Collected: 05/20/20 15:45

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.27	J	5.28	0.665	ug/Kg	☼	05/27/20 12:00	05/30/20 11:13	1
Ethylbenzene	1.08	U	5.28	1.08	ug/Kg	☼	05/27/20 12:00	05/30/20 11:13	1
Toluene	1.46	U	5.28	1.46	ug/Kg	☼	05/27/20 12:00	05/30/20 11:13	1
Xylenes, Total	1.19	U	5.28	1.19	ug/Kg	☼	05/27/20 12:00	05/30/20 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130				05/27/20 12:00	05/30/20 11:13	1
4-Bromofluorobenzene	105		57 - 140				05/27/20 12:00	05/30/20 11:13	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-12-0"-6"

Lab Sample ID: 600-205599-26

Date Collected: 05/20/20 15:45

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	82		68 - 140	05/27/20 12:00	05/30/20 11:13	1
Toluene-d8 (Surr)	90		50 - 130	05/27/20 12:00	05/30/20 11:13	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]	0.632	U	1.08	0.632	mg/Kg	☼	05/23/20 10:19	05/28/20 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	112		70 - 130	05/23/20 10:19	05/28/20 15:58	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]	60.7		13.1	2.69	mg/Kg	☼	06/02/20 15:07	06/03/20 20:39	1
Oil Range Organics (C28-C36)	388		13.1	7.87	mg/Kg	☼	06/02/20 15:07	06/03/20 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		60 - 140	06/02/20 15:07	06/03/20 20:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14800		845	113	mg/Kg	☼		06/04/20 16:33	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.3		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	94.7		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-12-2'

Lab Sample ID: 600-205599-27

Date Collected: 05/20/20 15:55

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 69.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.18	J	6.81	0.857	ug/Kg	☼	05/27/20 12:00	05/30/20 11:36	1
Ethylbenzene	1.39	U	6.81	1.39	ug/Kg	☼	05/27/20 12:00	05/30/20 11:36	1
Toluene	1.88	U	6.81	1.88	ug/Kg	☼	05/27/20 12:00	05/30/20 11:36	1
Xylenes, Total	1.54	U	6.81	1.54	ug/Kg	☼	05/27/20 12:00	05/30/20 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		61 - 130	05/27/20 12:00	05/30/20 11:36	1
4-Bromofluorobenzene	105		57 - 140	05/27/20 12:00	05/30/20 11:36	1
Dibromofluoromethane	84		68 - 140	05/27/20 12:00	05/30/20 11:36	1
Toluene-d8 (Surr)	90		50 - 130	05/27/20 12:00	05/30/20 11:36	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]	0.898	U	1.53	0.898	mg/Kg	☼	05/23/20 10:19	05/28/20 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		70 - 130	05/23/20 10:19	05/28/20 16:23	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-12-2'

Lab Sample ID: 600-205599-27

Date Collected: 05/20/20 15:55

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 69.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	26.1		17.9	3.69	mg/Kg	☼	06/02/20 15:07	06/03/20 21:47	1
Oil Range Organics (C28-C36)	165		17.9	10.8	mg/Kg	☼	06/02/20 15:07	06/03/20 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		60 - 140				06/02/20 15:07	06/03/20 21:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4920		287	38.4	mg/Kg	☼		06/04/20 17:34	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.4		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	69.6		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-12-4'

Lab Sample ID: 600-205599-28

Date Collected: 05/20/20 16:05

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.768	U	6.09	0.768	ug/Kg	☼	05/27/20 12:00	05/30/20 11:58	1
Ethylbenzene	1.24	U	6.09	1.24	ug/Kg	☼	05/27/20 12:00	05/30/20 11:58	1
Toluene	1.68	U	6.09	1.68	ug/Kg	☼	05/27/20 12:00	05/30/20 11:58	1
Xylenes, Total	1.38	U	6.09	1.38	ug/Kg	☼	05/27/20 12:00	05/30/20 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		61 - 130				05/27/20 12:00	05/30/20 11:58	1
4-Bromofluorobenzene	99		57 - 140				05/27/20 12:00	05/30/20 11:58	1
Dibromofluoromethane	79		68 - 140				05/27/20 12:00	05/30/20 11:58	1
Toluene-d8 (Surr)	83		50 - 130				05/27/20 12:00	05/30/20 11:58	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]	0.759	U	1.30	0.759	mg/Kg	☼	05/23/20 10:19	05/28/20 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130				05/23/20 10:19	05/28/20 17:12	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]	3.19	U	15.5	3.19	mg/Kg	☼	06/02/20 15:07	06/03/20 22:21	1
Oil Range Organics (C28-C36)	9.34	U	15.5	9.34	mg/Kg	☼	06/02/20 15:07	06/03/20 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		60 - 140				06/02/20 15:07	06/03/20 22:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3030		125	16.6	mg/Kg	☼		06/04/20 17:55	25

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-12-4'

Lab Sample ID: 600-205599-28

Date Collected: 05/20/20 16:05

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.3

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.7		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	80.3		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-13-0"-6"

Lab Sample ID: 600-205599-29

Date Collected: 05/20/20 16:20

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 97.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.19		4.86	0.612	ug/Kg	☼	05/27/20 12:00	05/30/20 12:20	1
Ethylbenzene	0.991	U	4.86	0.991	ug/Kg	☼	05/27/20 12:00	05/30/20 12:20	1
Toluene	1.34	U	4.86	1.34	ug/Kg	☼	05/27/20 12:00	05/30/20 12:20	1
Xylenes, Total	1.10	U	4.86	1.10	ug/Kg	☼	05/27/20 12:00	05/30/20 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		61 - 130	05/27/20 12:00	05/30/20 12:20	1
4-Bromofluorobenzene	106		57 - 140	05/27/20 12:00	05/30/20 12:20	1
Dibromofluoromethane	82		68 - 140	05/27/20 12:00	05/30/20 12:20	1
Toluene-d8 (Surr)	87		50 - 130	05/27/20 12:00	05/30/20 12:20	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]	0.616	U	1.05	0.616	mg/Kg	☼	05/23/20 10:19	05/28/20 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	111		70 - 130	05/23/20 10:19	05/28/20 17:37	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]	6.21	J	12.8	2.65	mg/Kg	☼	06/02/20 15:07	06/03/20 22:56	1
Oil Range Organics (C28-C36)	116		12.8	7.74	mg/Kg	☼	06/02/20 15:07	06/03/20 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		60 - 140	06/02/20 15:07	06/03/20 22:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	718		20.6	2.75	mg/Kg	☼		06/04/20 18:15	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	97.0		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-13-2'

Lab Sample ID: 600-205599-30

Date Collected: 05/20/20 16:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 87.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.921	J	5.76	0.726	ug/Kg	☼	05/27/20 12:00	05/30/20 12:43	1
Ethylbenzene	1.17	U	5.76	1.17	ug/Kg	☼	05/27/20 12:00	05/30/20 12:43	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-13-2'

Lab Sample ID: 600-205599-30

Date Collected: 05/20/20 16:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 87.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.59	U	5.76	1.59	ug/Kg	☼	05/27/20 12:00	05/30/20 12:43	1
Xylenes, Total	1.30	U	5.76	1.30	ug/Kg	☼	05/27/20 12:00	05/30/20 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130				05/27/20 12:00	05/30/20 12:43	1
4-Bromofluorobenzene	106		57 - 140				05/27/20 12:00	05/30/20 12:43	1
Dibromofluoromethane	86		68 - 140				05/27/20 12:00	05/30/20 12:43	1
Toluene-d8 (Surr)	89		50 - 130				05/27/20 12:00	05/30/20 12:43	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]	0.652	U	1.11	0.652	mg/Kg	☼	05/23/20 10:19	05/28/20 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				05/23/20 10:19	05/28/20 18:01	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]	12.8	J	14.2	2.92	mg/Kg	☼	06/02/20 15:07	06/03/20 23:30	1
Oil Range Organics (C28-C36)	103		14.2	8.54	mg/Kg	☼	06/02/20 15:07	06/03/20 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	90		60 - 140				06/02/20 15:07	06/03/20 23:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		458	61.1	mg/Kg	☼		06/04/20 18:36	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.7		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	87.3		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-13-3

Lab Sample ID: 600-205599-31

Date Collected: 05/20/20 16:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.773	U	6.13	0.773	ug/Kg	☼	05/27/20 14:00	05/30/20 13:05	1
Ethylbenzene	1.25	U	6.13	1.25	ug/Kg	☼	05/27/20 14:00	05/30/20 13:05	1
Toluene	1.69	U	6.13	1.69	ug/Kg	☼	05/27/20 14:00	05/30/20 13:05	1
Xylenes, Total	1.39	U	6.13	1.39	ug/Kg	☼	05/27/20 14:00	05/30/20 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130				05/27/20 14:00	05/30/20 13:05	1
4-Bromofluorobenzene	107		57 - 140				05/27/20 14:00	05/30/20 13:05	1
Dibromofluoromethane	86		68 - 140				05/27/20 14:00	05/30/20 13:05	1
Toluene-d8 (Surr)	88		50 - 130				05/27/20 14:00	05/30/20 13:05	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-13-3

Lab Sample ID: 600-205599-31

Date Collected: 05/20/20 16:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 80.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.715	U	1.22	0.715	mg/Kg	☼	05/23/20 10:19	05/28/20 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130	05/23/20 10:19	05/28/20 18:26	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]	3.20	U	15.5	3.20	mg/Kg	☼	06/02/20 15:07	06/04/20 00:04	1
Oil Range Organics (C28-C36)	9.34	U	15.5	9.34	mg/Kg	☼	06/02/20 15:07	06/04/20 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		60 - 140	06/02/20 15:07	06/04/20 00:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2890	F1	125	16.6	mg/Kg	☼		06/04/20 18:56	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.7		1.0	1.0	%			05/27/20 10:02	1
Percent Solids	80.3		1.0	1.0	%			05/27/20 10:02	1

Client Sample ID: HA-8-0"-6"

Lab Sample ID: 600-205599-32

Date Collected: 05/21/20 09:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 72.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.12	J	6.78	0.854	ug/Kg	☼	05/27/20 14:00	05/30/20 13:28	1
Ethylbenzene	1.38	U	6.78	1.38	ug/Kg	☼	05/27/20 14:00	05/30/20 13:28	1
Toluene	1.87	U	6.78	1.87	ug/Kg	☼	05/27/20 14:00	05/30/20 13:28	1
Xylenes, Total	1.53	U	6.78	1.53	ug/Kg	☼	05/27/20 14:00	05/30/20 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 14:00	05/30/20 13:28	1
4-Bromofluorobenzene	104		57 - 140	05/27/20 14:00	05/30/20 13:28	1
Dibromofluoromethane	86		68 - 140	05/27/20 14:00	05/30/20 13:28	1
Toluene-d8 (Surr)	88		50 - 130	05/27/20 14:00	05/30/20 13:28	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]	0.864	U	1.47	0.864	mg/Kg	☼	05/23/20 10:19	05/28/20 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	05/23/20 10:19	05/28/20 18:50	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]	3.53	U	17.1	3.53	mg/Kg	☼	06/02/20 15:07	06/04/20 00:39	1
Diesel Range Organics [C10-C28]	48.0	H	34.0	7.01	mg/Kg	☼	06/08/20 12:04	06/09/20 17:02	1
Oil Range Organics (C28-C36)	10.3	U	17.1	10.3	mg/Kg	☼	06/02/20 15:07	06/04/20 00:39	1
Oil Range Organics (C28-C36)	186	H	34.0	20.5	mg/Kg	☼	06/08/20 12:04	06/09/20 17:02	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-8-0"-6"

Lab Sample ID: 600-205599-32

Date Collected: 05/21/20 09:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 72.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58	X	60 - 140	06/02/20 15:07	06/04/20 00:39	1
o-Terphenyl	99		60 - 140	06/08/20 12:04	06/09/20 17:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.82		5.55	0.741	mg/Kg	☼		06/04/20 19:57	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.9		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	72.1		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-8-2'

Lab Sample ID: 600-205599-33

Date Collected: 05/21/20 09:45

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 72.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.60	J	6.53	0.822	ug/Kg	☼	05/27/20 14:00	05/30/20 13:50	1
Ethylbenzene	1.33	U	6.53	1.33	ug/Kg	☼	05/27/20 14:00	05/30/20 13:50	1
Toluene	1.80	U	6.53	1.80	ug/Kg	☼	05/27/20 14:00	05/30/20 13:50	1
Xylenes, Total	1.48	U	6.53	1.48	ug/Kg	☼	05/27/20 14:00	05/30/20 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130	05/27/20 14:00	05/30/20 13:50	1
4-Bromofluorobenzene	100		57 - 140	05/27/20 14:00	05/30/20 13:50	1
Dibromofluoromethane	81		68 - 140	05/27/20 14:00	05/30/20 13:50	1
Toluene-d8 (Surr)	89		50 - 130	05/27/20 14:00	05/30/20 13:50	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]	0.875	U	1.49	0.875	mg/Kg	☼	05/23/20 10:19	05/28/20 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		70 - 130	05/23/20 10:19	05/28/20 19:15	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]	3.53	U	17.1	3.53	mg/Kg	☼	06/02/20 15:07	06/04/20 01:13	1
Oil Range Organics (C28-C36)	118		17.1	10.3	mg/Kg	☼	06/02/20 15:07	06/04/20 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	105		60 - 140	06/02/20 15:07	06/04/20 01:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.3		11.0	1.47	mg/Kg	☼		06/04/20 20:18	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.3		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	72.7		1.0	1.0	%			05/27/20 10:03	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-14-0"-6"

Lab Sample ID: 600-205599-34

Date Collected: 05/21/20 10:00

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.98	J	5.21	0.657	ug/Kg	☼	05/27/20 14:00	05/30/20 14:13	1
Ethylbenzene	1.06	U	5.21	1.06	ug/Kg	☼	05/27/20 14:00	05/30/20 14:13	1
Toluene	1.44	U	5.21	1.44	ug/Kg	☼	05/27/20 14:00	05/30/20 14:13	1
Xylenes, Total	1.18	U	5.21	1.18	ug/Kg	☼	05/27/20 14:00	05/30/20 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		61 - 130	05/27/20 14:00	05/30/20 14:13	1
4-Bromofluorobenzene	121		57 - 140	05/27/20 14:00	05/30/20 14:13	1
Dibromofluoromethane	87		68 - 140	05/27/20 14:00	05/30/20 14:13	1
Toluene-d8 (Surr)	95		50 - 130	05/27/20 14:00	05/30/20 14:13	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]	0.669	U	1.14	0.669	mg/Kg	☼	05/23/20 10:19	05/28/20 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	05/23/20 10:19	05/28/20 19:39	1

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]	4580		664	137	mg/Kg	☼	06/02/20 15:07	06/04/20 01:48	50
Oil Range Organics (C28-C36)	17700		664	400	mg/Kg	☼	06/02/20 15:07	06/04/20 01:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	60 - 140	06/02/20 15:07	06/04/20 01:48	50

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.4		43.0	5.75	mg/Kg	☼		06/04/20 20:38	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	92.9		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-15-0"-6"

Lab Sample ID: 600-205599-35

Date Collected: 05/21/20 10:15

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.11	J	5.21	0.657	ug/Kg	☼	05/27/20 14:00	05/30/20 14:36	1
Ethylbenzene	1.06	U	5.21	1.06	ug/Kg	☼	05/27/20 14:00	05/30/20 14:36	1
Toluene	1.44	U	5.21	1.44	ug/Kg	☼	05/27/20 14:00	05/30/20 14:36	1
Xylenes, Total	1.18	U	5.21	1.18	ug/Kg	☼	05/27/20 14:00	05/30/20 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		61 - 130	05/27/20 14:00	05/30/20 14:36	1
4-Bromofluorobenzene	107		57 - 140	05/27/20 14:00	05/30/20 14:36	1
Dibromofluoromethane	87		68 - 140	05/27/20 14:00	05/30/20 14:36	1
Toluene-d8 (Surr)	92		50 - 130	05/27/20 14:00	05/30/20 14:36	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-15-0"-6"

Lab Sample ID: 600-205599-35

Date Collected: 05/21/20 10:15

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 96.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.637	U	1.09	0.637	mg/Kg	☼	05/23/20 10:19	05/28/20 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130				05/23/20 10:19	05/28/20 20:04	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]	8.48	J	12.9	2.65	mg/Kg	☼	06/02/20 15:07	06/04/20 02:22	1
Oil Range Organics (C28-C36)	142		12.9	7.75	mg/Kg	☼	06/02/20 15:07	06/04/20 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	105		60 - 140				06/02/20 15:07	06/04/20 02:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		8.32	1.11	mg/Kg	☼		06/04/20 21:39	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.9		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	96.1		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-15-2'

Lab Sample ID: 600-205599-36

Date Collected: 05/21/20 10:25

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 65.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.06	J	7.61	0.959	ug/Kg	☼	05/27/20 14:00	05/30/20 14:59	1
Ethylbenzene	1.55	U	7.61	1.55	ug/Kg	☼	05/27/20 14:00	05/30/20 14:59	1
Toluene	2.10	U	7.61	2.10	ug/Kg	☼	05/27/20 14:00	05/30/20 14:59	1
Xylenes, Total	1.72	U	7.61	1.72	ug/Kg	☼	05/27/20 14:00	05/30/20 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130				05/27/20 14:00	05/30/20 14:59	1
4-Bromofluorobenzene	105		57 - 140				05/27/20 14:00	05/30/20 14:59	1
Dibromofluoromethane	83		68 - 140				05/27/20 14:00	05/30/20 14:59	1
Toluene-d8 (Surr)	90		50 - 130				05/27/20 14:00	05/30/20 14:59	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]	0.892	U	1.52	0.892	mg/Kg	☼	05/23/20 10:19	05/28/20 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		70 - 130				05/23/20 10:19	05/28/20 20:28	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]	12.3	J	18.9	3.89	mg/Kg	☼	06/02/20 15:07	06/04/20 02:56	1
Diesel Range Organics [C10-C28]	164	H	62.3	12.8	mg/Kg	☼	06/08/20 12:04	06/09/20 17:37	1
Oil Range Organics (C28-C36)	144		18.9	11.4	mg/Kg	☼	06/02/20 15:07	06/04/20 02:56	1
Oil Range Organics (C28-C36)	173	H	62.3	37.5	mg/Kg	☼	06/08/20 12:04	06/09/20 17:37	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-15-2'

Lab Sample ID: 600-205599-36

Date Collected: 05/21/20 10:25

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 65.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57	X	60 - 140	06/02/20 15:07	06/04/20 02:56	1
<i>o</i> -Terphenyl	94		60 - 140	06/08/20 12:04	06/09/20 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3490		153	20.4	mg/Kg	☼		06/04/20 22:00	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	34.4		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	65.6		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-15-4'

Lab Sample ID: 600-205599-37

Date Collected: 05/21/20 10:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 73.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.950	J	6.66	0.839	ug/Kg	☼	05/27/20 14:00	05/30/20 15:23	1
Ethylbenzene	1.36	U	6.66	1.36	ug/Kg	☼	05/27/20 14:00	05/30/20 15:23	1
Toluene	1.84	U	6.66	1.84	ug/Kg	☼	05/27/20 14:00	05/30/20 15:23	1
Xylenes, Total	1.51	U	6.66	1.51	ug/Kg	☼	05/27/20 14:00	05/30/20 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130	05/27/20 14:00	05/30/20 15:23	1
4-Bromofluorobenzene	102		57 - 140	05/27/20 14:00	05/30/20 15:23	1
Dibromofluoromethane	83		68 - 140	05/27/20 14:00	05/30/20 15:23	1
Toluene-d8 (Surr)	90		50 - 130	05/27/20 14:00	05/30/20 15:23	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]	0.841	U	1.44	0.841	mg/Kg	☼	05/23/20 10:19	05/29/20 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	94		70 - 130	05/23/20 10:19	05/29/20 12:40	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]	3.48	U	16.9	3.48	mg/Kg	☼	06/02/20 15:07	06/04/20 04:05	1
Diesel Range Organics [C10-C28]	6.84	U H	33.2	6.84	mg/Kg	☼	06/08/20 12:04	06/09/20 18:13	1
Oil Range Organics (C28-C36)	10.2	U	16.9	10.2	mg/Kg	☼	06/02/20 15:07	06/04/20 04:05	1
Oil Range Organics (C28-C36)	20.0	U H	33.2	20.0	mg/Kg	☼	06/08/20 12:04	06/09/20 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	14	X	60 - 140	06/02/20 15:07	06/04/20 04:05	1
<i>o</i> -Terphenyl	71		60 - 140	06/08/20 12:04	06/09/20 18:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4570		271	36.2	mg/Kg	☼		06/04/20 22:20	50

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-15-4'

Lab Sample ID: 600-205599-37

Date Collected: 05/21/20 10:35

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 73.7

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.3		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	73.7		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-16-0"-6"

Lab Sample ID: 600-205599-38

Date Collected: 05/21/20 10:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.86	J	5.37	0.677	ug/Kg	☼	05/27/20 14:00	05/30/20 15:46	1
Ethylbenzene	1.10	U	5.37	1.10	ug/Kg	☼	05/27/20 14:00	05/30/20 15:46	1
Toluene	1.48	U	5.37	1.48	ug/Kg	☼	05/27/20 14:00	05/30/20 15:46	1
Xylenes, Total	1.21	U	5.37	1.21	ug/Kg	☼	05/27/20 14:00	05/30/20 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		61 - 130	05/27/20 14:00	05/30/20 15:46	1
4-Bromofluorobenzene	108		57 - 140	05/27/20 14:00	05/30/20 15:46	1
Dibromofluoromethane	85		68 - 140	05/27/20 14:00	05/30/20 15:46	1
Toluene-d8 (Surr)	92		50 - 130	05/27/20 14:00	05/30/20 15:46	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]	0.629	U	1.07	0.629	mg/Kg	☼	05/23/20 10:20	05/29/20 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130	05/23/20 10:20	05/29/20 13:04	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]	4.36	J	13.2	2.72	mg/Kg	☼	06/02/20 15:07	06/04/20 04:40	1
Oil Range Organics (C28-C36)	104		13.2	7.96	mg/Kg	☼	06/02/20 15:07	06/04/20 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	116		60 - 140	06/02/20 15:07	06/04/20 04:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		4.25	0.568	mg/Kg	☼		06/04/20 22:41	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	94.1		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-16-2'

Lab Sample ID: 600-205599-39

Date Collected: 05/21/20 11:00

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 93.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.847	J	5.35	0.674	ug/Kg	☼	05/27/20 14:00	05/30/20 16:09	1
Ethylbenzene	1.09	U	5.35	1.09	ug/Kg	☼	05/27/20 14:00	05/30/20 16:09	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-16-2'

Lab Sample ID: 600-205599-39

Date Collected: 05/21/20 11:00

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 93.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.48	U	5.35	1.48	ug/Kg	☼	05/27/20 14:00	05/30/20 16:09	1
Xylenes, Total	1.21	U	5.35	1.21	ug/Kg	☼	05/27/20 14:00	05/30/20 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		61 - 130				05/27/20 14:00	05/30/20 16:09	1
4-Bromofluorobenzene	105		57 - 140				05/27/20 14:00	05/30/20 16:09	1
Dibromofluoromethane	83		68 - 140				05/27/20 14:00	05/30/20 16:09	1
Toluene-d8 (Surr)	90		50 - 130				05/27/20 14:00	05/30/20 16:09	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]	0.625	U	1.07	0.625	mg/Kg	☼	05/23/20 10:20	05/29/20 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130				05/23/20 10:20	05/29/20 13:53	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]	4.36	J	13.3	2.73	mg/Kg	☼	06/02/20 15:07	06/04/20 05:14	1
Oil Range Organics (C28-C36)	94.6		13.3	8.00	mg/Kg	☼	06/02/20 15:07	06/04/20 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	96		60 - 140				06/02/20 15:07	06/04/20 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		8.57	1.14	mg/Kg	☼		06/04/20 23:01	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	93.3		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-17-0"-6"

Lab Sample ID: 600-205599-40

Date Collected: 05/21/20 11:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.01	J	5.24	0.660	ug/Kg	☼	05/27/20 14:00	05/30/20 20:49	1
Ethylbenzene	1.07	U	5.24	1.07	ug/Kg	☼	05/27/20 14:00	05/30/20 20:49	1
Toluene	1.45	U	5.24	1.45	ug/Kg	☼	05/27/20 14:00	05/30/20 20:49	1
Xylenes, Total	1.18	U	5.24	1.18	ug/Kg	☼	05/27/20 14:00	05/30/20 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130				05/27/20 14:00	05/30/20 20:49	1
4-Bromofluorobenzene	117		57 - 140				05/27/20 14:00	05/30/20 20:49	1
Dibromofluoromethane	90		68 - 140				05/27/20 14:00	05/30/20 20:49	1
Toluene-d8 (Surr)	113		50 - 130				05/27/20 14:00	05/30/20 20:49	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-17-0"-6"

Lab Sample ID: 600-205599-40

Date Collected: 05/21/20 11:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.661	U	1.13	0.661	mg/Kg	☼	05/23/20 10:20	05/29/20 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	107		70 - 130				05/23/20 10:20	05/29/20 14:18	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]	5.49	J	13.1	2.70	mg/Kg	☼	06/02/20 15:07	06/04/20 05:48	1
Oil Range Organics (C28-C36)	114		13.1	7.90	mg/Kg	☼	06/02/20 15:07	06/04/20 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	108		60 - 140				06/02/20 15:07	06/04/20 05:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6870		422	56.3	mg/Kg	☼		06/04/20 23:21	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.1		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	94.9		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-17-2'

Lab Sample ID: 600-205599-41

Date Collected: 05/21/20 11:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.646	U	5.13	0.646	ug/Kg	☼	05/27/20 14:00	05/30/20 21:13	1
Ethylbenzene	1.05	U	5.13	1.05	ug/Kg	☼	05/27/20 14:00	05/30/20 21:13	1
Toluene	1.42	U	5.13	1.42	ug/Kg	☼	05/27/20 14:00	05/30/20 21:13	1
Xylenes, Total	1.16	U	5.13	1.16	ug/Kg	☼	05/27/20 14:00	05/30/20 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130				05/27/20 14:00	05/30/20 21:13	1
4-Bromofluorobenzene	112		57 - 140				05/27/20 14:00	05/30/20 21:13	1
Dibromofluoromethane	86		68 - 140				05/27/20 14:00	05/30/20 21:13	1
Toluene-d8 (Surr)	112		50 - 130				05/27/20 14:00	05/30/20 21:13	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]	0.656	U	1.12	0.656	mg/Kg	☼	05/28/20 10:22	05/29/20 09:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				05/28/20 10:22	05/29/20 09:25	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]	1.85	U	9.00	1.85	mg/Kg	☼	06/03/20 15:12	06/04/20 11:32	1
Oil Range Organics (C28-C36)	67.9		9.00	5.42	mg/Kg	☼	06/03/20 15:12	06/04/20 11:32	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-17-2'

Lab Sample ID: 600-205599-41

Date Collected: 05/21/20 11:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.0

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	114		60 - 140				06/03/20 15:12	06/04/20 11:32	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5660	F1 F2	435	58.0	mg/Kg	☼		06/05/20 00:23	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	92.0		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-17-4'

Lab Sample ID: 600-205599-42

Date Collected: 05/21/20 11:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 89.9

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.694	U	5.51	0.694	ug/Kg	☼	05/27/20 14:00	05/30/20 21:37	1
Ethylbenzene	1.12	U	5.51	1.12	ug/Kg	☼	05/27/20 14:00	05/30/20 21:37	1
Toluene	1.52	U	5.51	1.52	ug/Kg	☼	05/27/20 14:00	05/30/20 21:37	1
Xylenes, Total	1.25	U	5.51	1.25	ug/Kg	☼	05/27/20 14:00	05/30/20 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		61 - 130				05/27/20 14:00	05/30/20 21:37	1
4-Bromofluorobenzene	113		57 - 140				05/27/20 14:00	05/30/20 21:37	1
Dibromofluoromethane	84		68 - 140				05/27/20 14:00	05/30/20 21:37	1
Toluene-d8 (Surr)	112		50 - 130				05/27/20 14:00	05/30/20 21:37	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]	0.684	U	1.17	0.684	mg/Kg	☼	05/28/20 10:22	05/29/20 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				05/28/20 10:22	05/29/20 09:49	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]	1.89	U	9.19	1.89	mg/Kg	☼	06/03/20 15:12	06/04/20 12:06	1
Oil Range Organics (C28-C36)	65.4		9.19	5.54	mg/Kg	☼	06/03/20 15:12	06/04/20 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	119		60 - 140				06/03/20 15:12	06/04/20 12:06	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4310		445	59.4	mg/Kg	☼		06/05/20 02:05	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	89.9		1.0	1.0	%			05/27/20 10:03	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-18-0"-6"

Lab Sample ID: 600-205599-43

Date Collected: 05/21/20 12:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 87.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.709	U	5.63	0.709	ug/Kg	☼	05/27/20 14:00	06/01/20 15:22	1
Ethylbenzene	1.15	U	5.63	1.15	ug/Kg	☼	05/27/20 14:00	06/01/20 15:22	1
Toluene	1.55	U	5.63	1.55	ug/Kg	☼	05/27/20 14:00	06/01/20 15:22	1
Xylenes, Total	1.27	U	5.63	1.27	ug/Kg	☼	05/27/20 14:00	06/01/20 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/27/20 14:00	06/01/20 15:22	1
4-Bromofluorobenzene	102		57 - 140	05/27/20 14:00	06/01/20 15:22	1
Dibromofluoromethane	86		68 - 140	05/27/20 14:00	06/01/20 15:22	1
Toluene-d8 (Surr)	86		50 - 130	05/27/20 14:00	06/01/20 15:22	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]	0.684	U	1.17	0.684	mg/Kg	☼	05/28/20 10:22	05/29/20 10:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		70 - 130	05/28/20 10:22	05/29/20 10:14	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]	11.3		9.47	1.95	mg/Kg	☼	06/03/20 15:12	06/04/20 12:41	1
Oil Range Organics (C28-C36)	118		9.47	5.71	mg/Kg	☼	06/03/20 15:12	06/04/20 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	110		60 - 140	06/03/20 15:12	06/04/20 12:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	605		91.5	12.2	mg/Kg	☼		06/05/20 02:25	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	87.4		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-18-2'

Lab Sample ID: 600-205599-44

Date Collected: 05/21/20 12:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 86.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.713	U	5.66	0.713	ug/Kg	☼	05/27/20 14:00	06/01/20 15:44	1
Ethylbenzene	1.15	U	5.66	1.15	ug/Kg	☼	05/27/20 14:00	06/01/20 15:44	1
Toluene	1.56	U	5.66	1.56	ug/Kg	☼	05/27/20 14:00	06/01/20 15:44	1
Xylenes, Total	1.28	U	5.66	1.28	ug/Kg	☼	05/27/20 14:00	06/01/20 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130	05/27/20 14:00	06/01/20 15:44	1
4-Bromofluorobenzene	105		57 - 140	05/27/20 14:00	06/01/20 15:44	1
Dibromofluoromethane	84		68 - 140	05/27/20 14:00	06/01/20 15:44	1
Toluene-d8 (Surr)	89		50 - 130	05/27/20 14:00	06/01/20 15:44	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-18-2'

Lab Sample ID: 600-205599-44

Date Collected: 05/21/20 12:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 86.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.663	U	1.13	0.663	mg/Kg	☼	05/28/20 10:22	05/29/20 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130				05/28/20 10:22	05/29/20 10:38	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]	1.96	U	9.54	1.96	mg/Kg	☼	06/03/20 15:12	06/04/20 13:16	1
Oil Range Organics (C28-C36)	77.8		9.54	5.74	mg/Kg	☼	06/03/20 15:12	06/04/20 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	85		60 - 140				06/03/20 15:12	06/04/20 13:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2850		115	15.4	mg/Kg	☼		06/05/20 02:46	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		1.0	1.0	%			05/27/20 10:03	1
Percent Solids	86.8		1.0	1.0	%			05/27/20 10:03	1

Client Sample ID: HA-18-4'

Lab Sample ID: 600-205599-45

Date Collected: 05/21/20 12:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 88.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.707	U	5.61	0.707	ug/Kg	☼	05/27/20 14:00	06/01/20 16:07	1
Ethylbenzene	1.14	U	5.61	1.14	ug/Kg	☼	05/27/20 14:00	06/01/20 16:07	1
Toluene	1.55	U	5.61	1.55	ug/Kg	☼	05/27/20 14:00	06/01/20 16:07	1
Xylenes, Total	1.27	U	5.61	1.27	ug/Kg	☼	05/27/20 14:00	06/01/20 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130				05/27/20 14:00	06/01/20 16:07	1
4-Bromofluorobenzene	108		57 - 140				05/27/20 14:00	06/01/20 16:07	1
Dibromofluoromethane	85		68 - 140				05/27/20 14:00	06/01/20 16:07	1
Toluene-d8 (Surr)	86		50 - 130				05/27/20 14:00	06/01/20 16:07	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]	0.671	U	1.14	0.671	mg/Kg	☼	05/28/20 10:22	05/29/20 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130				05/28/20 10:22	05/29/20 11:02	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]	1.93	U	9.35	1.93	mg/Kg	☼	06/03/20 15:12	06/04/20 13:50	1
Oil Range Organics (C28-C36)	65.6		9.35	5.63	mg/Kg	☼	06/03/20 15:12	06/04/20 13:50	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-18-4'

Lab Sample ID: 600-205599-45

Date Collected: 05/21/20 12:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 88.4

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	117		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	4360		452	60.4	mg/Kg	☼		06/05/20 03:06	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.6		1.0	1.0	%	—		05/27/20 10:05	1
Percent Solids	88.4		1.0	1.0	%	—		05/27/20 10:05	1

Client Sample ID: HA-19-0"-6"

Lab Sample ID: 600-205599-46

Date Collected: 05/21/20 13:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.6

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.43	J	5.34	0.672	ug/Kg	☼	05/27/20 14:00	06/01/20 16:29	1
Ethylbenzene	1.09	U	5.34	1.09	ug/Kg	☼	05/27/20 14:00	06/01/20 16:29	1
Toluene	1.47	U	5.34	1.47	ug/Kg	☼	05/27/20 14:00	06/01/20 16:29	1
Xylenes, Total	1.21	U	5.34	1.21	ug/Kg	☼	05/27/20 14:00	06/01/20 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130				05/27/20 14:00	06/01/20 16:29	1
4-Bromofluorobenzene	108		57 - 140				05/27/20 14:00	06/01/20 16:29	1
Dibromofluoromethane	85		68 - 140				05/27/20 14:00	06/01/20 16:29	1
Toluene-d8 (Surr)	90		50 - 130				05/27/20 14:00	06/01/20 16:29	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]	0.598	U	1.02	0.598	mg/Kg	☼	05/28/20 10:22	05/29/20 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 130				05/28/20 10:22	05/29/20 11:27	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]	25.2		8.75	1.80	mg/Kg	☼	06/03/20 15:12	06/04/20 14:25	1
Oil Range Organics (C28-C36)	205		8.75	5.27	mg/Kg	☼	06/03/20 15:12	06/04/20 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	105		60 - 140				06/03/20 15:12	06/04/20 14:25	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3930		423	56.4	mg/Kg	☼		06/05/20 03:26	100
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.4		1.0	1.0	%	—		05/27/20 10:05	1
Percent Solids	94.6		1.0	1.0	%	—		05/27/20 10:05	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-19-2'

Lab Sample ID: 600-205599-47

Date Collected: 05/21/20 13:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 83.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.756	U	6.00	0.756	ug/Kg	☼	05/27/20 14:00	06/01/20 16:52	1
Ethylbenzene	1.22	U	6.00	1.22	ug/Kg	☼	05/27/20 14:00	06/01/20 16:52	1
Toluene	1.66	U	6.00	1.66	ug/Kg	☼	05/27/20 14:00	06/01/20 16:52	1
Xylenes, Total	1.36	U	6.00	1.36	ug/Kg	☼	05/27/20 14:00	06/01/20 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	05/27/20 14:00	06/01/20 16:52	1
4-Bromofluorobenzene	107		57 - 140	05/27/20 14:00	06/01/20 16:52	1
Dibromofluoromethane	87		68 - 140	05/27/20 14:00	06/01/20 16:52	1
Toluene-d8 (Surr)	89		50 - 130	05/27/20 14:00	06/01/20 16:52	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]	0.653	U	1.11	0.653	mg/Kg	☼	05/28/20 10:22	05/29/20 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130	05/28/20 10:22	05/29/20 11:51	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]	7.05	J	9.93	2.05	mg/Kg	☼	06/03/20 15:12	06/04/20 15:00	1
Oil Range Organics (C28-C36)	104		9.93	5.98	mg/Kg	☼	06/03/20 15:12	06/04/20 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	121		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	7080		480	64.1	mg/Kg	☼		06/05/20 03:47	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		1.0	1.0	%			05/27/20 10:05	1
Percent Solids	83.3		1.0	1.0	%			05/27/20 10:05	1

Client Sample ID: HA-19-4'

Lab Sample ID: 600-205599-48

Date Collected: 05/21/20 13:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.759	U	6.03	0.759	ug/Kg	☼	05/27/20 14:00	06/01/20 17:15	1
Ethylbenzene	1.23	U	6.03	1.23	ug/Kg	☼	05/27/20 14:00	06/01/20 17:15	1
Toluene	1.66	U	6.03	1.66	ug/Kg	☼	05/27/20 14:00	06/01/20 17:15	1
Xylenes, Total	1.36	U	6.03	1.36	ug/Kg	☼	05/27/20 14:00	06/01/20 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 130	05/27/20 14:00	06/01/20 17:15	1
4-Bromofluorobenzene	107		57 - 140	05/27/20 14:00	06/01/20 17:15	1
Dibromofluoromethane	86		68 - 140	05/27/20 14:00	06/01/20 17:15	1
Toluene-d8 (Surr)	88		50 - 130	05/27/20 14:00	06/01/20 17:15	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-19-4'

Lab Sample ID: 600-205599-48

Date Collected: 05/21/20 13:50

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 82.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.757	U	1.29	0.757	mg/Kg	☼	05/28/20 10:22	05/29/20 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130	05/28/20 10:22	05/29/20 12:15	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]	2.06	U	10.0	2.06	mg/Kg	☼	06/03/20 15:12	06/04/20 15:35	1
Oil Range Organics (C28-C36)	6.03	U	10.0	6.03	mg/Kg	☼	06/03/20 15:12	06/04/20 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	113		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	10700		484	64.6	mg/Kg	☼		06/05/20 04:07	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.4		1.0	1.0	%			05/27/20 10:05	1
Percent Solids	82.6		1.0	1.0	%			05/27/20 10:05	1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
α	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

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

1
2
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14

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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 (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
600-205599-1	HA-1-0"-6"	92	90	82	97
600-205599-2	HA-1-1'-6"	83	103	80	103
600-205599-3	HA-2-0"-6"	105	95	95	98
600-205599-4	HA-2-2'	85	89	89	104
600-205599-5	HA-2-4'	87	89	88	104
600-205599-6	HA-3-0"-6"	88	108	93	109
600-205599-7	HA-3-2'	87	100	87	100
600-205599-8	HA-4-0"-6"	88	114	85	92
600-205599-9	HA-4-1'	88	95	85	93
600-205599-10	HA-5-0"-6"	86	103	89	80
600-205599-11	HA-5-1'	93	102	87	106
600-205599-12	HA-6-0"-6"	87	110	84	81
600-205599-13	HA-6-1'	93	114	87	109
600-205599-14	HA-7-0"-6"	87	101	80	105
600-205599-15	HA-7-2'	88	101	85	98
600-205599-16	HA-7-4'	89	97	83	112
600-205599-17	HA-7-6'	87	102	85	113
600-205599-18	HA-20-0"-6"	88	104	88	97
600-205599-19	HA-9-0"-6"	78	86	83	116
600-205599-20	HA-9-2'	78	104	83	89
600-205599-21	HA-9-4"	72	104	81	92
600-205599-22	HA-10-0"-6"	82	106	83	89
600-205599-23	HA-11-0"-6"	80	104	82	87
600-205599-24	HA-11-2'	81	106	83	89
600-205599-25	HA-11-4'	78	103	80	89
600-205599-26	HA-12-0"-6"	83	105	82	90
600-205599-27	HA-12-2'	85	105	84	90
600-205599-28	HA-12-4'	77	99	79	83
600-205599-29	HA-13-0"-6"	80	106	82	87
600-205599-30	HA-13-2'	83	106	86	89
600-205599-31	HA-13-3	87	107	86	88
600-205599-32	HA-8-0"-6"	87	104	86	88
600-205599-33	HA-8-2'	82	100	81	89
600-205599-34	HA-14-0"-6"	90	121	87	95
600-205599-35	HA-15-0"-6"	91	107	87	92
600-205599-36	HA-15-2'	81	105	83	90
600-205599-37	HA-15-4'	83	102	83	90
600-205599-38	HA-16-0"-6"	87	108	85	92
600-205599-39	HA-16-2'	82	105	83	90
600-205599-40	HA-17-0"-6"	88	117	90	113
600-205599-41	HA-17-2'	84	112	86	112
600-205599-42	HA-17-4'	79	113	84	112
600-205599-43	HA-18-0"-6"	88	102	86	86
600-205599-44	HA-18-2'	81	105	84	89
600-205599-45	HA-18-4'	83	108	85	86
600-205599-46	HA-19-0"-6"	84	108	85	90
600-205599-47	HA-19-2'	88	107	87	89
600-205599-48	HA-19-4'	86	107	86	88
LCS 600-295244/4	Lab Control Sample	89	96	91	91

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-205599-1

Project/Site: Chevron - WTU #622 Site

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
LCS 600-295497/3	Lab Control Sample	96	110	91	90
LCS 600-295504/4	Lab Control Sample	87	101	93	100
LCS 600-295568/3	Lab Control Sample	85	111	88	92
LCSD 600-295244/5	Lab Control Sample Dup	82	108	88	94
LCSD 600-295497/4	Lab Control Sample Dup	95	107	90	90
LCSD 600-295504/5	Lab Control Sample Dup	81	91	87	86
LCSD 600-295568/4	Lab Control Sample Dup	80	101	84	90
MB 600-295244/7	Method Blank	93	109	93	117
MB 600-295497/6	Method Blank	103	105	90	88
MB 600-295504/7	Method Blank	95	108	102	112
MB 600-295568/6	Method Blank	85	108	83	89

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 (70-130)			
600-205599-1	HA-1-0"-6"	103			
600-205599-2	HA-1-1'-6"	106			
600-205599-3	HA-2-0"-6"	108			
600-205599-4	HA-2-2'	104			
600-205599-5	HA-2-4'	101			
600-205599-6	HA-3-0"-6"	109			
600-205599-7	HA-3-2'	103			
600-205599-8	HA-4-0"-6"	116			
600-205599-9	HA-4-1'	94			
600-205599-10	HA-5-0"-6"	96			
600-205599-11	HA-5-1'	81			
600-205599-12	HA-6-0"-6"	107			
600-205599-13	HA-6-1'	107			
600-205599-14	HA-7-0"-6"	114			
600-205599-15	HA-7-2'	110			
600-205599-16	HA-7-4'	102			
600-205599-17	HA-7-6'	104			
600-205599-18	HA-20-0"-6"	92			
600-205599-19	HA-9-0"-6"	106			
600-205599-20	HA-9-2'	88			
600-205599-21	HA-9-4"	88			
600-205599-22	HA-10-0"-6"	112			
600-205599-23	HA-11-0"-6"	104			
600-205599-24	HA-11-2'	89			
600-205599-25	HA-11-4'	94			
600-205599-26	HA-12-0"-6"	112			
600-205599-27	HA-12-2'	91			

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-205599-1

Project/Site: Chevron - WTU #622 Site

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-205599-28	HA-12-4'	99
600-205599-29	HA-13-0"-6"	111
600-205599-30	HA-13-2'	104
600-205599-31	HA-13-3	100
600-205599-32	HA-8-0"-6"	103
600-205599-33	HA-8-2'	90
600-205599-34	HA-14-0"-6"	103
600-205599-35	HA-15-0"-6"	108
600-205599-36	HA-15-2'	97
600-205599-37	HA-15-4'	94
600-205599-38	HA-16-0"-6"	105
600-205599-39	HA-16-2'	108
600-205599-40	HA-17-0"-6"	107
600-205599-41	HA-17-2'	104
600-205599-42	HA-17-4'	104
600-205599-43	HA-18-0"-6"	108
600-205599-44	HA-18-2'	100
600-205599-45	HA-18-4'	99
600-205599-46	HA-19-0"-6"	106
600-205599-47	HA-19-2'	99
600-205599-48	HA-19-4'	100
LCS 600-295085/1-A	Lab Control Sample	95
LCS 600-295089/1-A	Lab Control Sample	95
LCS 600-295090/1-A	Lab Control Sample	95
LCSD 600-295085/2-A	Lab Control Sample Dup	95
LCSD 600-295089/2-A	Lab Control Sample Dup	97
LCSD 600-295090/2-A	Lab Control Sample Dup	94
MB 600-295085/3-A	Method Blank	93
MB 600-295089/3-A	Method Blank	95
MB 600-295090/3-A	Method Blank	93

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTPH (60-140)
600-205599-1	HA-1-0"-6"	105
600-205599-2	HA-1-1'-6"	85
600-205599-3	HA-2-0"-6"	121
600-205599-4	HA-2-2'	109
600-205599-5	HA-2-4'	93
600-205599-6	HA-3-0"-6"	108
600-205599-7	HA-3-2'	96
600-205599-8	HA-4-0"-6"	77
600-205599-9	HA-4-1'	94
600-205599-9 MS	HA-4-1'	82
600-205599-9 MSD	HA-4-1'	108

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-205599-1

Project/Site: Chevron - WTU #622 Site

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTPH (60-140)
600-205599-10	HA-5-0"-6"	120
600-205599-11	HA-5-1'	81
600-205599-12	HA-6-0"-6"	116
600-205599-13	HA-6-1'	119
600-205599-14	HA-7-0"-6"	106
600-205599-15	HA-7-2'	120
600-205599-16	HA-7-4'	112
600-205599-17	HA-7-6'	51 X
600-205599-18	HA-20-0"-6"	78
600-205599-19	HA-9-0"-6"	82
600-205599-20	HA-9-2'	63
600-205599-21	HA-9-4"	61
600-205599-21 MS	HA-9-4"	105
600-205599-21 MSD	HA-9-4"	110
600-205599-22	HA-10-0"-6"	96
600-205599-23	HA-11-0"-6"	103
600-205599-24	HA-11-2'	90
600-205599-25	HA-11-4'	40 X
600-205599-25	HA-11-4'	100
600-205599-26	HA-12-0"-6"	97
600-205599-27	HA-12-2'	65
600-205599-28	HA-12-4'	99
600-205599-29	HA-13-0"-6"	102
600-205599-30	HA-13-2'	90
600-205599-31	HA-13-3	85
600-205599-32	HA-8-0"-6"	58 X
600-205599-32	HA-8-0"-6"	99
600-205599-33	HA-8-2'	105
600-205599-34 - DL	HA-14-0"-6"	0 X
600-205599-35	HA-15-0"-6"	105
600-205599-36	HA-15-2'	57 X
600-205599-36	HA-15-2'	94
600-205599-37	HA-15-4'	14 X
600-205599-37	HA-15-4'	71
600-205599-38	HA-16-0"-6"	116
600-205599-39	HA-16-2'	96
600-205599-40	HA-17-0"-6"	108
600-205599-41	HA-17-2'	114
600-205599-42	HA-17-4'	119
600-205599-43	HA-18-0"-6"	110
600-205599-44	HA-18-2'	85
600-205599-45	HA-18-4'	117
600-205599-46	HA-19-0"-6"	105
600-205599-47	HA-19-2'	121
600-205599-48	HA-19-4'	113
LCS 600-295621/2-A	Lab Control Sample	137
LCS 600-295690/2-A	Lab Control Sample	131
LCS 600-295786/2-A	Lab Control Sample	132
LCS 600-296079/2-A	Lab Control Sample	103
LCSD 600-296079/3-A	Lab Control Sample Dup	103

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 600-205599-1

Project/Site: Chevron - WTU #622 Site

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	OTPH (60-140)
MB 600-295621/1-A	Method Blank	117
MB 600-295690/1-A	Method Blank	77
MB 600-295786/1-A	Method Blank	123
MB 600-296079/1-A	Method Blank	101
Surrogate Legend		
OTPH = o-Terphenyl		

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295244/7

Matrix: Solid

Analysis Batch: 295244

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			05/27/20 13:36	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			05/27/20 13:36	1
Toluene	1.38	U	5.00	1.38	ug/Kg			05/27/20 13:36	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			05/27/20 13:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130		05/27/20 13:36	1
4-Bromofluorobenzene	109		57 - 140		05/27/20 13:36	1
Dibromofluoromethane	93		68 - 140		05/27/20 13:36	1
Toluene-d8 (Surr)	117		50 - 130		05/27/20 13:36	1

Lab Sample ID: LCS 600-295244/4

Matrix: Solid

Analysis Batch: 295244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.02		ug/Kg		110	70 - 131
Ethylbenzene	50.0	53.69		ug/Kg		107	66 - 130
m-Xylene & p-Xylene	50.0	53.05		ug/Kg		106	64 - 130
o-Xylene	50.0	52.47		ug/Kg		105	62 - 130
Toluene	50.0	51.47		ug/Kg		103	67 - 130
Xylenes, Total	100	105.5		ug/Kg		106	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
4-Bromofluorobenzene	96		57 - 140
Dibromofluoromethane	91		68 - 140
Toluene-d8 (Surr)	91		50 - 130

Lab Sample ID: LCSD 600-295244/5

Matrix: Solid

Analysis Batch: 295244

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.62		ug/Kg		99	70 - 131	10	30
Ethylbenzene	50.0	49.70		ug/Kg		99	66 - 130	8	30
m-Xylene & p-Xylene	50.0	50.17		ug/Kg		100	64 - 130	6	30
o-Xylene	50.0	48.15		ug/Kg		96	62 - 130	9	30
Toluene	50.0	48.89		ug/Kg		98	67 - 130	5	30
Xylenes, Total	100	98.32		ug/Kg		98	63 - 130	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		61 - 130
4-Bromofluorobenzene	108		57 - 140
Dibromofluoromethane	88		68 - 140
Toluene-d8 (Surr)	94		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295497/6

Matrix: Solid

Analysis Batch: 295497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			05/30/20 08:38	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			05/30/20 08:38	1
Toluene	1.38	U	5.00	1.38	ug/Kg			05/30/20 08:38	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			05/30/20 08:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		61 - 130		05/30/20 08:38	1
4-Bromofluorobenzene	105		57 - 140		05/30/20 08:38	1
Dibromofluoromethane	90		68 - 140		05/30/20 08:38	1
Toluene-d8 (Surr)	88		50 - 130		05/30/20 08:38	1

Lab Sample ID: LCS 600-295497/3

Matrix: Solid

Analysis Batch: 295497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.56		ug/Kg		91	70 - 131
Ethylbenzene	50.0	41.98		ug/Kg		84	66 - 130
m-Xylene & p-Xylene	50.0	42.32		ug/Kg		85	64 - 130
o-Xylene	50.0	42.93		ug/Kg		86	62 - 130
Toluene	50.0	41.53		ug/Kg		83	67 - 130
Xylenes, Total	100	85.25		ug/Kg		85	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		61 - 130
4-Bromofluorobenzene	110		57 - 140
Dibromofluoromethane	91		68 - 140
Toluene-d8 (Surr)	90		50 - 130

Lab Sample ID: LCSD 600-295497/4

Matrix: Solid

Analysis Batch: 295497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.08		ug/Kg		102	70 - 131	11	30
Ethylbenzene	50.0	47.95		ug/Kg		96	66 - 130	13	30
m-Xylene & p-Xylene	50.0	48.30		ug/Kg		97	64 - 130	13	30
o-Xylene	50.0	47.55		ug/Kg		95	62 - 130	10	30
Toluene	50.0	47.37		ug/Kg		95	67 - 130	13	30
Xylenes, Total	100	95.85		ug/Kg		96	63 - 130	12	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		61 - 130
4-Bromofluorobenzene	107		57 - 140
Dibromofluoromethane	90		68 - 140
Toluene-d8 (Surr)	90		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295504/7

Matrix: Solid

Analysis Batch: 295504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			05/30/20 13:33	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			05/30/20 13:33	1
Toluene	1.38	U	5.00	1.38	ug/Kg			05/30/20 13:33	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			05/30/20 13:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		61 - 130		05/30/20 13:33	1
4-Bromofluorobenzene	108		57 - 140		05/30/20 13:33	1
Dibromofluoromethane	102		68 - 140		05/30/20 13:33	1
Toluene-d8 (Surr)	112		50 - 130		05/30/20 13:33	1

Lab Sample ID: LCS 600-295504/4

Matrix: Solid

Analysis Batch: 295504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.18		ug/Kg		98	70 - 131
Ethylbenzene	50.0	48.99		ug/Kg		98	66 - 130
m-Xylene & p-Xylene	50.0	50.31		ug/Kg		101	64 - 130
o-Xylene	50.0	49.32		ug/Kg		99	62 - 130
Toluene	50.0	50.06		ug/Kg		100	67 - 130
Xylenes, Total	100	99.63		ug/Kg		100	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		61 - 130
4-Bromofluorobenzene	101		57 - 140
Dibromofluoromethane	93		68 - 140
Toluene-d8 (Surr)	100		50 - 130

Lab Sample ID: LCSD 600-295504/5

Matrix: Solid

Analysis Batch: 295504

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	45.06		ug/Kg		90	70 - 131	9	30
Ethylbenzene	50.0	45.01		ug/Kg		90	66 - 130	8	30
m-Xylene & p-Xylene	50.0	44.39		ug/Kg		89	64 - 130	12	30
o-Xylene	50.0	42.76		ug/Kg		86	62 - 130	14	30
Toluene	50.0	42.70		ug/Kg		85	67 - 130	16	30
Xylenes, Total	100	87.15		ug/Kg		87	63 - 130	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		61 - 130
4-Bromofluorobenzene	91		57 - 140
Dibromofluoromethane	87		68 - 140
Toluene-d8 (Surr)	86		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295568/6

Matrix: Solid

Analysis Batch: 295568

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			06/01/20 14:59	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			06/01/20 14:59	1
Toluene	1.38	U	5.00	1.38	ug/Kg			06/01/20 14:59	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			06/01/20 14:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.08		ug/Kg		90	70 - 131
Ethylbenzene	50.0	44.10		ug/Kg		88	66 - 130
m-Xylene & p-Xylene	50.0	43.59		ug/Kg		87	64 - 130
o-Xylene	50.0	44.28		ug/Kg		89	62 - 130
Toluene	50.0	43.45		ug/Kg		87	67 - 130
Xylenes, Total	100	87.87		ug/Kg		88	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
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 Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	43.99		ug/Kg		88	70 - 131	2	30
Ethylbenzene	50.0	40.94		ug/Kg		82	66 - 130	7	30
m-Xylene & p-Xylene	50.0	42.58		ug/Kg		85	64 - 130	2	30
o-Xylene	50.0	42.66		ug/Kg		85	62 - 130	4	30
Toluene	50.0	41.70		ug/Kg		83	67 - 130	4	30
Xylenes, Total	100	85.24		ug/Kg		85	63 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
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 - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295085/3-A

Matrix: Solid

Analysis Batch: 295084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295085

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg	-	05/23/20 06:38	05/23/20 08:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130				05/23/20 06:38	05/23/20 08:48	1

Lab Sample ID: LCS 600-295085/1-A

Matrix: Solid

Analysis Batch: 295084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]			5.04	5.740		mg/Kg	-	114	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	95		70 - 130						

Lab Sample ID: LCSD 600-295085/2-A

Matrix: Solid

Analysis Batch: 295084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 295085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]			5.04	5.982		mg/Kg	-	119	70 - 130	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
a,a,a-Trifluorotoluene	95		70 - 130								

Lab Sample ID: MB 600-295089/3-A

Matrix: Solid

Analysis Batch: 295336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295089

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg	-	05/23/20 10:19	05/28/20 11:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130				05/23/20 10:19	05/28/20 11:58	1

Lab Sample ID: LCS 600-295089/1-A

Matrix: Solid

Analysis Batch: 295336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295089

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]			5.04	5.718		mg/Kg	-	114	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	95		70 - 130						

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: LCSD 600-295089/2-A

Matrix: Solid

Analysis Batch: 295336

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 295089

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]	5.04	5.771		mg/Kg	-	115	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	97		70 - 130						

Lab Sample ID: MB 600-295090/3-A

Matrix: Solid

Analysis Batch: 295416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295090

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

Lab Sample ID: LCS 600-295090/1-A

Matrix: Solid

Analysis Batch: 295416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295090

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

Lab Sample ID: LCSD 600-295090/2-A

Matrix: Solid

Analysis Batch: 295416

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 295090

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics [C6 - C10]	5.04	6.059		mg/Kg	-	120	70 - 130	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	94		70 - 130						

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

Lab Sample ID: MB 600-295621/1-A

Matrix: Solid

Analysis Batch: 295673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295621

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	-	06/02/20 08:02	06/02/20 15:34	1
Oil Range Organics (C28-C36)	5.00	U	8.30	5.00	mg/Kg	-	06/02/20 08:02	06/02/20 15:34	1

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: MB 600-295621/1-A

Matrix: Solid

Analysis Batch: 295673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295621

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	117		60 - 140	06/02/20 08:02	06/02/20 15:34	1

Lab Sample ID: LCS 600-295621/2-A

Matrix: Solid

Analysis Batch: 295673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295621

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			66.8	55.87		mg/Kg	-	84	66 - 134		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
o-Terphenyl	137		60 - 140								

Lab Sample ID: 600-205599-9 MS

Matrix: Solid

Analysis Batch: 295673

Client Sample ID: HA-4-1'

Prep Type: Total/NA

Prep Batch: 295621

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	12.1	J F2 F1	147	59.57	F1	mg/Kg	☼	32	66 - 134		
Surrogate	MS %Recovery	MS Qualifier	Limits								
o-Terphenyl	82		60 - 140								

Lab Sample ID: 600-205599-9 MSD

Matrix: Solid

Analysis Batch: 295673

Client Sample ID: HA-4-1'

Prep Type: Total/NA

Prep Batch: 295621

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	12.1	J F2 F1	148	106.9	F2 F1	mg/Kg	☼	64	66 - 134	57	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	108		60 - 140								

Lab Sample ID: MB 600-295690/1-A

Matrix: Solid

Analysis Batch: 295764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295690

Top Data: 20000									
Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	1.71	U	8.30	1.71	mg/Kg	-	06/02/20 15:07	06/03/20 15:29	1
Oil Range Organics (C28-C36)	5.00	U	8.30	5.00	mg/Kg		06/02/20 15:07	06/03/20 15:29	1
Bottom Data: 20000									
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
o-Terphenyl	77		60 - 140	06/02/20 15:07	06/03/20 15:29	1			

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Lab Sample ID: LCS 600-295690/2-A

Matrix: Solid

Analysis Batch: 295764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 295690

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			66.8	63.16		mg/Kg		95	66 - 134		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	131		60 - 140								

Lab Sample ID: 600-205599-21 MS

Matrix: Solid

Analysis Batch: 295764

Client Sample ID: HA-9-4"

Prep Type: Total/NA

Prep Batch: 295690

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	3.63	U	142	126.3		mg/Kg	☼	89	66 - 134		
Surrogate	MS %Recovery	MS Qualifier	Limits								
o-Terphenyl	105		60 - 140								

Lab Sample ID: 600-205599-21 MSD

Matrix: Solid

Analysis Batch: 295764

Client Sample ID: HA-9-4"

Prep Type: Total/NA

Prep Batch: 295690

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.63	U	141	104.3		mg/Kg	☼	74	66 - 134	19	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	110		60 - 140								

Lab Sample ID: MB 600-295786/1-A

Matrix: Solid

Analysis Batch: 295826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 295786

	MB	MB							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	8.25	1.70	mg/Kg		06/03/20 15:12	06/04/20 17:21	1
Oil Range Organics (C28-C36)	4.97	U	8.25	4.97	mg/Kg		06/03/20 15:12	06/04/20 17:21	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	123		60 - 140				06/03/20 15:12	06/04/20 17:21	1

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	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.5	55.34		mg/Kg		83	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	132		60 - 140

Lab Sample ID: MB 600-296079/1-A

Matrix: Solid

Analysis Batch: 296177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 296079

	MB	MB								
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil	Fac
Diesel Range Organics [C10-C28]	1.71	U	8.30	1.71	mg/Kg	-	06/08/20 12:04	06/09/20 14:05	1	
Oil Range Organics (C28-C36)	5.00	U	8.30	5.00	mg/Kg	-	06/08/20 12:04	06/09/20 14:05	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
o-Terphenyl	101		60 - 140				06/08/20 12:04	06/09/20 14:05	1	

Lab Sample ID: LCS 600-296079/2-A

Matrix: Solid

Analysis Batch: 296177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 296079

			Spike	LCS	LCS					
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Diesel Range Organics [C10-C28]			66.8	48.17		mg/Kg	-	72		66 - 134
Surrogate	LCS	LCS								
o-Terphenyl	%Recovery	Qualifier	Limits							
	103		60 - 140							

Lab Sample ID: LCSD 600-296079/3-A

Matrix: Solid

Analysis Batch: 296177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 296079

			Spike	LCSD	LCSD						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Diesel Range Organics [C10-C28]			66.7	48.00		mg/Kg	-	72		0	30
Surrogate	LCSD	LCSD									
o-Terphenyl	%Recovery	Qualifier	Limits								
	103		60 - 140								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-295285/1-A

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	5.34	U	40.0	5.34	mg/Kg	-		06/03/20 16:21	10	

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-295285/2-A

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2000	1848		mg/Kg		92	90 - 110

Lab Sample ID: 600-205599-1 MS

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: HA-1-0"-6"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	32.7	F1	206	216.7		mg/Kg	✱	89	80 - 120

Lab Sample ID: 600-205599-1 MSD

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: HA-1-0"-6"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	32.7	F1	206	192.4	F1	mg/Kg	✱	77	80 - 120	12	20

Lab Sample ID: 600-205599-11 MS

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: HA-5-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.1	F1	123	122.7	F1	mg/Kg	✱	75	80 - 120

Lab Sample ID: 600-205599-11 MSD

Matrix: Solid

Analysis Batch: 295774

Client Sample ID: HA-5-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	30.1	F1	123	139.5		mg/Kg	✱	89	80 - 120	13	20

Lab Sample ID: MB 600-295286/1-A

Matrix: Solid

Analysis Batch: 295816

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			06/04/20 09:56	1

Lab Sample ID: MB 600-295288/1-A

Matrix: Solid

Analysis Batch: 295816

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			06/04/20 23:42	1

Lab Sample ID: LCS 600-295286/2-A

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	185.0		mg/Kg		93	90 - 110

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 600-295288/2-A

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	183.9		mg/Kg		92	90 - 110

Lab Sample ID: 600-205599-21 MS

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-9-4"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1860		1420	3252		mg/Kg	☼	98	80 - 120

Lab Sample ID: 600-205599-21 MSD

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-9-4"

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1860		1420	2991		mg/Kg	☼	80	80 - 120	8	20

Lab Sample ID: 600-205599-31 MS

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-13-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2890	F1	3110	5500		mg/Kg	☼	84	80 - 120

Lab Sample ID: 600-205599-31 MSD

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-13-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2890	F1	3110	4884	F1	mg/Kg	☼	64	80 - 120	12	20

Lab Sample ID: 600-205599-41 MS

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-17-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5660	F1 F2	10900	12420	F1	mg/Kg	☼	62	80 - 120

Lab Sample ID: 600-205599-41 MSD

Matrix: Solid

Analysis Batch: 295816

Client Sample ID: HA-17-2'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5660	F1 F2	10900	14480		mg/Kg	☼	81	80 - 120	15	20

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-205599-1 DU

Matrix: Solid

Analysis Batch: 295231

Client Sample ID: HA-1-0"-6"

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	3.0		2.9		%		4	20
Percent Solids	97.0		97.1		%		0.1	20

Lab Sample ID: 600-205599-11 DU

Matrix: Solid

Analysis Batch: 295231

Client Sample ID: HA-5-1'

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	18.9		19.0		%		0.9	20
Percent Solids	81.1		81.0		%		0.2	20

Lab Sample ID: 600-205599-21 DU

Matrix: Solid

Analysis Batch: 295231

Client Sample ID: HA-9-4"

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	29.4		30.2		%		3	20
Percent Solids	70.6		69.8		%		1	20

Lab Sample ID: 600-205599-31 DU

Matrix: Solid

Analysis Batch: 295231

Client Sample ID: HA-13-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	19.7		19.9		%		0.7	20
Percent Solids	80.3		80.1		%		0.2	20

Lab Sample ID: 600-205599-41 DU

Matrix: Solid

Analysis Batch: 295231

Client Sample ID: HA-17-2'

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	8.0		7.9		%		0.8	20
Percent Solids	92.0		92.1		%		0.07	20

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

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

Prep: 5030C

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: 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
Diesel Range Organics [C10-C28]	8.30	1.71	mg/Kg
Oil Range Organics (C28-C36)	8.30	5.00	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 - WTU #622 Site

Job ID: 600-205599-1

GC/MS VOA

Prep Batch: 295188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	5030C	
600-205599-2	HA-1-1'-6"	Total/NA	Solid	5030C	
600-205599-3	HA-2-0"-6"	Total/NA	Solid	5030C	
600-205599-7	HA-3-2'	Total/NA	Solid	5030C	
600-205599-8	HA-4-0"-6"	Total/NA	Solid	5030C	
600-205599-9	HA-4-1'	Total/NA	Solid	5030C	
600-205599-10	HA-5-0"-6"	Total/NA	Solid	5030C	
600-205599-11	HA-5-1'	Total/NA	Solid	5030C	

Analysis Batch: 295244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	8260C	295188
600-205599-2	HA-1-1'-6"	Total/NA	Solid	8260C	295188
600-205599-3	HA-2-0"-6"	Total/NA	Solid	8260C	295188
MB 600-295244/7	Method Blank	Total/NA	Solid	8260C	
LCS 600-295244/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-295244/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 295261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-12	HA-6-0"-6"	Total/NA	Solid	5030C	
600-205599-13	HA-6-1'	Total/NA	Solid	5030C	
600-205599-14	HA-7-0"-6"	Total/NA	Solid	5030C	
600-205599-15	HA-7-2'	Total/NA	Solid	5030C	
600-205599-16	HA-7-4'	Total/NA	Solid	5030C	
600-205599-17	HA-7-6'	Total/NA	Solid	5030C	
600-205599-18	HA-20-0"-6"	Total/NA	Solid	5030C	
600-205599-19	HA-9-0"-6"	Total/NA	Solid	5030C	
600-205599-20	HA-9-2'	Total/NA	Solid	5030C	
600-205599-21	HA-9-4"	Total/NA	Solid	5030C	
600-205599-22	HA-10-0"-6"	Total/NA	Solid	5030C	
600-205599-23	HA-11-0"-6"	Total/NA	Solid	5030C	
600-205599-24	HA-11-2'	Total/NA	Solid	5030C	
600-205599-25	HA-11-4'	Total/NA	Solid	5030C	
600-205599-26	HA-12-0"-6"	Total/NA	Solid	5030C	
600-205599-27	HA-12-2'	Total/NA	Solid	5030C	
600-205599-28	HA-12-4'	Total/NA	Solid	5030C	
600-205599-29	HA-13-0"-6"	Total/NA	Solid	5030C	
600-205599-30	HA-13-2'	Total/NA	Solid	5030C	

Prep Batch: 295279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-31	HA-13-3	Total/NA	Solid	5030C	
600-205599-32	HA-8-0"-6"	Total/NA	Solid	5030C	
600-205599-33	HA-8-2'	Total/NA	Solid	5030C	
600-205599-34	HA-14-0"-6"	Total/NA	Solid	5030C	
600-205599-35	HA-15-0"-6"	Total/NA	Solid	5030C	
600-205599-36	HA-15-2'	Total/NA	Solid	5030C	
600-205599-37	HA-15-4'	Total/NA	Solid	5030C	
600-205599-38	HA-16-0"-6"	Total/NA	Solid	5030C	
600-205599-39	HA-16-2'	Total/NA	Solid	5030C	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC/MS VOA (Continued)

Prep Batch: 295279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-40	HA-17-0"-6"	Total/NA	Solid	5030C	
600-205599-41	HA-17-2'	Total/NA	Solid	5030C	
600-205599-42	HA-17-4'	Total/NA	Solid	5030C	
600-205599-43	HA-18-0"-6"	Total/NA	Solid	5030C	
600-205599-44	HA-18-2'	Total/NA	Solid	5030C	
600-205599-45	HA-18-4'	Total/NA	Solid	5030C	
600-205599-46	HA-19-0"-6"	Total/NA	Solid	5030C	
600-205599-47	HA-19-2'	Total/NA	Solid	5030C	
600-205599-48	HA-19-4'	Total/NA	Solid	5030C	

Prep Batch: 295295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-4	HA-2-2'	Total/NA	Solid	5030C	
600-205599-5	HA-2-4'	Total/NA	Solid	5030C	
600-205599-6	HA-3-0"-6"	Total/NA	Solid	5030C	

Analysis Batch: 295497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-20	HA-9-2'	Total/NA	Solid	8260C	295261
600-205599-21	HA-9-4"	Total/NA	Solid	8260C	295261
600-205599-22	HA-10-0"-6"	Total/NA	Solid	8260C	295261
600-205599-23	HA-11-0"-6"	Total/NA	Solid	8260C	295261
600-205599-24	HA-11-2'	Total/NA	Solid	8260C	295261
600-205599-25	HA-11-4'	Total/NA	Solid	8260C	295261
600-205599-26	HA-12-0"-6"	Total/NA	Solid	8260C	295261
600-205599-27	HA-12-2'	Total/NA	Solid	8260C	295261
600-205599-28	HA-12-4'	Total/NA	Solid	8260C	295261
600-205599-29	HA-13-0"-6"	Total/NA	Solid	8260C	295261
600-205599-30	HA-13-2'	Total/NA	Solid	8260C	295261
600-205599-31	HA-13-3	Total/NA	Solid	8260C	295279
600-205599-32	HA-8-0"-6"	Total/NA	Solid	8260C	295279
600-205599-33	HA-8-2'	Total/NA	Solid	8260C	295279
600-205599-34	HA-14-0"-6"	Total/NA	Solid	8260C	295279
600-205599-35	HA-15-0"-6"	Total/NA	Solid	8260C	295279
600-205599-36	HA-15-2'	Total/NA	Solid	8260C	295279
600-205599-37	HA-15-4'	Total/NA	Solid	8260C	295279
600-205599-38	HA-16-0"-6"	Total/NA	Solid	8260C	295279
600-205599-39	HA-16-2'	Total/NA	Solid	8260C	295279
MB 600-295497/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-295497/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-295497/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 295504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-4	HA-2-2'	Total/NA	Solid	8260C	295295
600-205599-5	HA-2-4'	Total/NA	Solid	8260C	295295
600-205599-6	HA-3-0"-6"	Total/NA	Solid	8260C	295295
600-205599-7	HA-3-2'	Total/NA	Solid	8260C	295188
600-205599-8	HA-4-0"-6"	Total/NA	Solid	8260C	295188
600-205599-9	HA-4-1'	Total/NA	Solid	8260C	295188
600-205599-10	HA-5-0"-6"	Total/NA	Solid	8260C	295188

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC/MS VOA (Continued)

Analysis Batch: 295504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-11	HA-5-1'	Total/NA	Solid	8260C	295188
600-205599-12	HA-6-0"-6"	Total/NA	Solid	8260C	295261
600-205599-13	HA-6-1'	Total/NA	Solid	8260C	295261
600-205599-14	HA-7-0"-6"	Total/NA	Solid	8260C	295261
600-205599-15	HA-7-2'	Total/NA	Solid	8260C	295261
600-205599-16	HA-7-4'	Total/NA	Solid	8260C	295261
600-205599-17	HA-7-6'	Total/NA	Solid	8260C	295261
600-205599-18	HA-20-0"-6"	Total/NA	Solid	8260C	295261
600-205599-19	HA-9-0"-6"	Total/NA	Solid	8260C	295261
600-205599-40	HA-17-0"-6"	Total/NA	Solid	8260C	295279
600-205599-41	HA-17-2'	Total/NA	Solid	8260C	295279
600-205599-42	HA-17-4'	Total/NA	Solid	8260C	295279
MB 600-295504/7	Method Blank	Total/NA	Solid	8260C	
LCS 600-295504/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-295504/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 295568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-43	HA-18-0"-6"	Total/NA	Solid	8260C	295279
600-205599-44	HA-18-2'	Total/NA	Solid	8260C	295279
600-205599-45	HA-18-4'	Total/NA	Solid	8260C	295279
600-205599-46	HA-19-0"-6"	Total/NA	Solid	8260C	295279
600-205599-47	HA-19-2'	Total/NA	Solid	8260C	295279
600-205599-48	HA-19-4'	Total/NA	Solid	8260C	295279
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	

GC VOA

Analysis Batch: 295084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	8015D	295085
600-205599-2	HA-1-1'-6"	Total/NA	Solid	8015D	295085
600-205599-3	HA-2-0"-6"	Total/NA	Solid	8015D	295085
600-205599-4	HA-2-2'	Total/NA	Solid	8015D	295085
600-205599-5	HA-2-4'	Total/NA	Solid	8015D	295085
600-205599-6	HA-3-0"-6"	Total/NA	Solid	8015D	295085
600-205599-7	HA-3-2'	Total/NA	Solid	8015D	295085
600-205599-8	HA-4-0"-6"	Total/NA	Solid	8015D	295085
600-205599-9	HA-4-1'	Total/NA	Solid	8015D	295085
600-205599-10	HA-5-0"-6"	Total/NA	Solid	8015D	295085
600-205599-11	HA-5-1'	Total/NA	Solid	8015D	295085
600-205599-12	HA-6-0"-6"	Total/NA	Solid	8015D	295085
600-205599-13	HA-6-1'	Total/NA	Solid	8015D	295085
600-205599-14	HA-7-0"-6"	Total/NA	Solid	8015D	295085
600-205599-15	HA-7-2'	Total/NA	Solid	8015D	295085
600-205599-16	HA-7-4'	Total/NA	Solid	8015D	295085
600-205599-17	HA-7-6'	Total/NA	Solid	8015D	295085
600-205599-18	HA-20-0"-6"	Total/NA	Solid	8015D	295085
600-205599-19	HA-9-0"-6"	Total/NA	Solid	8015D	295085

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC VOA (Continued)

Analysis Batch: 295084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-20	HA-9-2'	Total/NA	Solid	8015D	295085
MB 600-295085/3-A	Method Blank	Total/NA	Solid	8015D	295085
LCS 600-295085/1-A	Lab Control Sample	Total/NA	Solid	8015D	295085
LCSD 600-295085/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	295085

Prep Batch: 295085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	5030C	
600-205599-2	HA-1-1'-6"	Total/NA	Solid	5030C	
600-205599-3	HA-2-0"-6"	Total/NA	Solid	5030C	
600-205599-4	HA-2-2'	Total/NA	Solid	5030C	
600-205599-5	HA-2-4'	Total/NA	Solid	5030C	
600-205599-6	HA-3-0"-6"	Total/NA	Solid	5030C	
600-205599-7	HA-3-2'	Total/NA	Solid	5030C	
600-205599-8	HA-4-0"-6"	Total/NA	Solid	5030C	
600-205599-9	HA-4-1'	Total/NA	Solid	5030C	
600-205599-10	HA-5-0"-6"	Total/NA	Solid	5030C	
600-205599-11	HA-5-1'	Total/NA	Solid	5030C	
600-205599-12	HA-6-0"-6"	Total/NA	Solid	5030C	
600-205599-13	HA-6-1'	Total/NA	Solid	5030C	
600-205599-14	HA-7-0"-6"	Total/NA	Solid	5030C	
600-205599-15	HA-7-2'	Total/NA	Solid	5030C	
600-205599-16	HA-7-4'	Total/NA	Solid	5030C	
600-205599-17	HA-7-6'	Total/NA	Solid	5030C	
600-205599-18	HA-20-0"-6"	Total/NA	Solid	5030C	
600-205599-19	HA-9-0"-6"	Total/NA	Solid	5030C	
600-205599-20	HA-9-2'	Total/NA	Solid	5030C	
MB 600-295085/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-295085/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-295085/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Prep Batch: 295089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Total/NA	Solid	5030C	
600-205599-22	HA-10-0"-6"	Total/NA	Solid	5030C	
600-205599-23	HA-11-0"-6"	Total/NA	Solid	5030C	
600-205599-24	HA-11-2'	Total/NA	Solid	5030C	
600-205599-25	HA-11-4'	Total/NA	Solid	5030C	
600-205599-26	HA-12-0"-6"	Total/NA	Solid	5030C	
600-205599-27	HA-12-2'	Total/NA	Solid	5030C	
600-205599-28	HA-12-4'	Total/NA	Solid	5030C	
600-205599-29	HA-13-0"-6"	Total/NA	Solid	5030C	
600-205599-30	HA-13-2'	Total/NA	Solid	5030C	
600-205599-31	HA-13-3	Total/NA	Solid	5030C	
600-205599-32	HA-8-0"-6"	Total/NA	Solid	5030C	
600-205599-33	HA-8-2'	Total/NA	Solid	5030C	
600-205599-34	HA-14-0"-6"	Total/NA	Solid	5030C	
600-205599-35	HA-15-0"-6"	Total/NA	Solid	5030C	
600-205599-36	HA-15-2'	Total/NA	Solid	5030C	
600-205599-37	HA-15-4'	Total/NA	Solid	5030C	
600-205599-38	HA-16-0"-6"	Total/NA	Solid	5030C	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC VOA (Continued)

Prep Batch: 295089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-39	HA-16-2'	Total/NA	Solid	5030C	
600-205599-40	HA-17-0"-6"	Total/NA	Solid	5030C	
MB 600-295089/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-295089/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-295089/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Prep Batch: 295090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-41	HA-17-2'	Total/NA	Solid	5030C	
600-205599-42	HA-17-4'	Total/NA	Solid	5030C	
600-205599-43	HA-18-0"-6"	Total/NA	Solid	5030C	
600-205599-44	HA-18-2'	Total/NA	Solid	5030C	
600-205599-45	HA-18-4'	Total/NA	Solid	5030C	
600-205599-46	HA-19-0"-6"	Total/NA	Solid	5030C	
600-205599-47	HA-19-2'	Total/NA	Solid	5030C	
600-205599-48	HA-19-4'	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: 295336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Total/NA	Solid	8015D	295089
600-205599-22	HA-10-0"-6"	Total/NA	Solid	8015D	295089
600-205599-23	HA-11-0"-6"	Total/NA	Solid	8015D	295089
600-205599-24	HA-11-2'	Total/NA	Solid	8015D	295089
600-205599-25	HA-11-4'	Total/NA	Solid	8015D	295089
600-205599-26	HA-12-0"-6"	Total/NA	Solid	8015D	295089
600-205599-27	HA-12-2'	Total/NA	Solid	8015D	295089
600-205599-28	HA-12-4'	Total/NA	Solid	8015D	295089
600-205599-29	HA-13-0"-6"	Total/NA	Solid	8015D	295089
600-205599-30	HA-13-2'	Total/NA	Solid	8015D	295089
600-205599-31	HA-13-3	Total/NA	Solid	8015D	295089
600-205599-32	HA-8-0"-6"	Total/NA	Solid	8015D	295089
600-205599-33	HA-8-2'	Total/NA	Solid	8015D	295089
600-205599-34	HA-14-0"-6"	Total/NA	Solid	8015D	295089
600-205599-35	HA-15-0"-6"	Total/NA	Solid	8015D	295089
600-205599-36	HA-15-2'	Total/NA	Solid	8015D	295089
MB 600-295089/3-A	Method Blank	Total/NA	Solid	8015D	295089
LCS 600-295089/1-A	Lab Control Sample	Total/NA	Solid	8015D	295089
LCSD 600-295089/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	295089

Analysis Batch: 295416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-37	HA-15-4'	Total/NA	Solid	8015D	295089
600-205599-38	HA-16-0"-6"	Total/NA	Solid	8015D	295089
600-205599-39	HA-16-2'	Total/NA	Solid	8015D	295089
600-205599-40	HA-17-0"-6"	Total/NA	Solid	8015D	295089
600-205599-41	HA-17-2'	Total/NA	Solid	8015D	295090
600-205599-42	HA-17-4'	Total/NA	Solid	8015D	295090
600-205599-43	HA-18-0"-6"	Total/NA	Solid	8015D	295090

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC VOA (Continued)

Analysis Batch: 295416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-44	HA-18-2'	Total/NA	Solid	8015D	295090
600-205599-45	HA-18-4'	Total/NA	Solid	8015D	295090
600-205599-46	HA-19-0"-6"	Total/NA	Solid	8015D	295090
600-205599-47	HA-19-2'	Total/NA	Solid	8015D	295090
600-205599-48	HA-19-4'	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

GC Semi VOA

Prep Batch: 295621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	3546	
600-205599-2	HA-1-1'-6"	Total/NA	Solid	3546	
600-205599-3	HA-2-0"-6"	Total/NA	Solid	3546	
600-205599-4	HA-2-2'	Total/NA	Solid	3546	
600-205599-5	HA-2-4'	Total/NA	Solid	3546	
600-205599-6	HA-3-0"-6"	Total/NA	Solid	3546	
600-205599-7	HA-3-2'	Total/NA	Solid	3546	
600-205599-8	HA-4-0"-6"	Total/NA	Solid	3546	
600-205599-9	HA-4-1'	Total/NA	Solid	3546	
600-205599-10	HA-5-0"-6"	Total/NA	Solid	3546	
600-205599-11	HA-5-1'	Total/NA	Solid	3546	
600-205599-12	HA-6-0"-6"	Total/NA	Solid	3546	
600-205599-13	HA-6-1'	Total/NA	Solid	3546	
600-205599-14	HA-7-0"-6"	Total/NA	Solid	3546	
600-205599-15	HA-7-2'	Total/NA	Solid	3546	
600-205599-16	HA-7-4'	Total/NA	Solid	3546	
600-205599-17	HA-7-6'	Total/NA	Solid	3546	
600-205599-18	HA-20-0"-6"	Total/NA	Solid	3546	
600-205599-19	HA-9-0"-6"	Total/NA	Solid	3546	
600-205599-20	HA-9-2'	Total/NA	Solid	3546	
MB 600-295621/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-295621/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-205599-9 MS	HA-4-1'	Total/NA	Solid	3546	
600-205599-9 MSD	HA-4-1'	Total/NA	Solid	3546	

Analysis Batch: 295673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	8015D	295621
600-205599-2	HA-1-1'-6"	Total/NA	Solid	8015D	295621
600-205599-3	HA-2-0"-6"	Total/NA	Solid	8015D	295621
600-205599-4	HA-2-2'	Total/NA	Solid	8015D	295621
600-205599-5	HA-2-4'	Total/NA	Solid	8015D	295621
600-205599-6	HA-3-0"-6"	Total/NA	Solid	8015D	295621
600-205599-7	HA-3-2'	Total/NA	Solid	8015D	295621
600-205599-8	HA-4-0"-6"	Total/NA	Solid	8015D	295621
600-205599-9	HA-4-1'	Total/NA	Solid	8015D	295621
600-205599-10	HA-5-0"-6"	Total/NA	Solid	8015D	295621
600-205599-11	HA-5-1'	Total/NA	Solid	8015D	295621

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC Semi VOA (Continued)

Analysis Batch: 295673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-12	HA-6-0"-6"	Total/NA	Solid	8015D	295621
600-205599-13	HA-6-1'	Total/NA	Solid	8015D	295621
600-205599-14	HA-7-0"-6"	Total/NA	Solid	8015D	295621
600-205599-15	HA-7-2'	Total/NA	Solid	8015D	295621
600-205599-16	HA-7-4'	Total/NA	Solid	8015D	295621
600-205599-17	HA-7-6'	Total/NA	Solid	8015D	295621
600-205599-18	HA-20-0"-6"	Total/NA	Solid	8015D	295621
600-205599-19	HA-9-0"-6"	Total/NA	Solid	8015D	295621
600-205599-20	HA-9-2'	Total/NA	Solid	8015D	295621
MB 600-295621/1-A	Method Blank	Total/NA	Solid	8015D	295621
LCS 600-295621/2-A	Lab Control Sample	Total/NA	Solid	8015D	295621
600-205599-9 MS	HA-4-1'	Total/NA	Solid	8015D	295621
600-205599-9 MSD	HA-4-1'	Total/NA	Solid	8015D	295621

Prep Batch: 295690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Total/NA	Solid	3546	
600-205599-22	HA-10-0"-6"	Total/NA	Solid	3546	
600-205599-23	HA-11-0"-6"	Total/NA	Solid	3546	
600-205599-24	HA-11-2'	Total/NA	Solid	3546	
600-205599-25	HA-11-4'	Total/NA	Solid	3546	
600-205599-26	HA-12-0"-6"	Total/NA	Solid	3546	
600-205599-27	HA-12-2'	Total/NA	Solid	3546	
600-205599-28	HA-12-4'	Total/NA	Solid	3546	
600-205599-29	HA-13-0"-6"	Total/NA	Solid	3546	
600-205599-30	HA-13-2'	Total/NA	Solid	3546	
600-205599-31	HA-13-3	Total/NA	Solid	3546	
600-205599-32	HA-8-0"-6"	Total/NA	Solid	3546	
600-205599-33	HA-8-2'	Total/NA	Solid	3546	
600-205599-34 - DL	HA-14-0"-6"	Total/NA	Solid	3546	
600-205599-35	HA-15-0"-6"	Total/NA	Solid	3546	
600-205599-36	HA-15-2'	Total/NA	Solid	3546	
600-205599-37	HA-15-4'	Total/NA	Solid	3546	
600-205599-38	HA-16-0"-6"	Total/NA	Solid	3546	
600-205599-39	HA-16-2'	Total/NA	Solid	3546	
600-205599-40	HA-17-0"-6"	Total/NA	Solid	3546	
MB 600-295690/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-295690/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-205599-21 MS	HA-9-4"	Total/NA	Solid	3546	
600-205599-21 MSD	HA-9-4"	Total/NA	Solid	3546	

Analysis Batch: 295764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Total/NA	Solid	8015D	295690
600-205599-22	HA-10-0"-6"	Total/NA	Solid	8015D	295690
600-205599-23	HA-11-0"-6"	Total/NA	Solid	8015D	295690
600-205599-24	HA-11-2'	Total/NA	Solid	8015D	295690
600-205599-25	HA-11-4'	Total/NA	Solid	8015D	295690
600-205599-26	HA-12-0"-6"	Total/NA	Solid	8015D	295690
600-205599-27	HA-12-2'	Total/NA	Solid	8015D	295690
600-205599-28	HA-12-4'	Total/NA	Solid	8015D	295690

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC Semi VOA (Continued)

Analysis Batch: 295764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-29	HA-13-0"-6"	Total/NA	Solid	8015D	295690
600-205599-30	HA-13-2'	Total/NA	Solid	8015D	295690
600-205599-31	HA-13-3	Total/NA	Solid	8015D	295690
600-205599-32	HA-8-0"-6"	Total/NA	Solid	8015D	295690
600-205599-33	HA-8-2'	Total/NA	Solid	8015D	295690
600-205599-34 - DL	HA-14-0"-6"	Total/NA	Solid	8015D	295690
600-205599-35	HA-15-0"-6"	Total/NA	Solid	8015D	295690
600-205599-36	HA-15-2'	Total/NA	Solid	8015D	295690
600-205599-37	HA-15-4'	Total/NA	Solid	8015D	295690
600-205599-38	HA-16-0"-6"	Total/NA	Solid	8015D	295690
600-205599-39	HA-16-2'	Total/NA	Solid	8015D	295690
600-205599-40	HA-17-0"-6"	Total/NA	Solid	8015D	295690
MB 600-295690/1-A	Method Blank	Total/NA	Solid	8015D	295690
LCS 600-295690/2-A	Lab Control Sample	Total/NA	Solid	8015D	295690
600-205599-21 MS	HA-9-4"	Total/NA	Solid	8015D	295690
600-205599-21 MSD	HA-9-4"	Total/NA	Solid	8015D	295690

Prep Batch: 295786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-41	HA-17-2'	Total/NA	Solid	3546	
600-205599-42	HA-17-4'	Total/NA	Solid	3546	
600-205599-43	HA-18-0"-6"	Total/NA	Solid	3546	
600-205599-44	HA-18-2'	Total/NA	Solid	3546	
600-205599-45	HA-18-4'	Total/NA	Solid	3546	
600-205599-46	HA-19-0"-6"	Total/NA	Solid	3546	
600-205599-47	HA-19-2'	Total/NA	Solid	3546	
600-205599-48	HA-19-4'	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	

Analysis Batch: 295826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-41	HA-17-2'	Total/NA	Solid	8015D	295786
600-205599-42	HA-17-4'	Total/NA	Solid	8015D	295786
600-205599-43	HA-18-0"-6"	Total/NA	Solid	8015D	295786
600-205599-44	HA-18-2'	Total/NA	Solid	8015D	295786
600-205599-45	HA-18-4'	Total/NA	Solid	8015D	295786
600-205599-46	HA-19-0"-6"	Total/NA	Solid	8015D	295786
600-205599-47	HA-19-2'	Total/NA	Solid	8015D	295786
600-205599-48	HA-19-4'	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

Prep Batch: 296079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-25	HA-11-4'	Total/NA	Solid	3546	
600-205599-32	HA-8-0"-6"	Total/NA	Solid	3546	
600-205599-36	HA-15-2'	Total/NA	Solid	3546	
600-205599-37	HA-15-4'	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	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

GC Semi VOA (Continued)

Prep Batch: 296079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 600-296079/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 296177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-25	HA-11-4'	Total/NA	Solid	8015D	296079
600-205599-32	HA-8-0"-6"	Total/NA	Solid	8015D	296079
600-205599-36	HA-15-2'	Total/NA	Solid	8015D	296079
600-205599-37	HA-15-4'	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

HPLC/IC

Leach Batch: 295285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Soluble	Solid	DI Leach	
600-205599-2	HA-1-1'-6"	Soluble	Solid	DI Leach	
600-205599-3	HA-2-0"-6"	Soluble	Solid	DI Leach	
600-205599-4	HA-2-2'	Soluble	Solid	DI Leach	
600-205599-5	HA-2-4'	Soluble	Solid	DI Leach	
600-205599-6	HA-3-0"-6"	Soluble	Solid	DI Leach	
600-205599-7	HA-3-2'	Soluble	Solid	DI Leach	
600-205599-8	HA-4-0"-6"	Soluble	Solid	DI Leach	
600-205599-9	HA-4-1'	Soluble	Solid	DI Leach	
600-205599-10	HA-5-0"-6"	Soluble	Solid	DI Leach	
600-205599-11	HA-5-1'	Soluble	Solid	DI Leach	
600-205599-12	HA-6-0"-6"	Soluble	Solid	DI Leach	
600-205599-13	HA-6-1'	Soluble	Solid	DI Leach	
600-205599-14	HA-7-0"-6"	Soluble	Solid	DI Leach	
600-205599-15	HA-7-2'	Soluble	Solid	DI Leach	
600-205599-16	HA-7-4'	Soluble	Solid	DI Leach	
600-205599-17	HA-7-6'	Soluble	Solid	DI Leach	
600-205599-18	HA-20-0"-6"	Soluble	Solid	DI Leach	
600-205599-19	HA-9-0"-6"	Soluble	Solid	DI Leach	
600-205599-20	HA-9-2'	Soluble	Solid	DI Leach	
MB 600-295285/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-295285/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-205599-1 MS	HA-1-0"-6"	Soluble	Solid	DI Leach	
600-205599-1 MSD	HA-1-0"-6"	Soluble	Solid	DI Leach	
600-205599-11 MS	HA-5-1'	Soluble	Solid	DI Leach	
600-205599-11 MSD	HA-5-1'	Soluble	Solid	DI Leach	

Leach Batch: 295286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Soluble	Solid	DI Leach	
600-205599-22	HA-10-0"-6"	Soluble	Solid	DI Leach	
600-205599-23	HA-11-0"-6"	Soluble	Solid	DI Leach	
600-205599-24	HA-11-2'	Soluble	Solid	DI Leach	
600-205599-25	HA-11-4'	Soluble	Solid	DI Leach	
600-205599-26	HA-12-0"-6"	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

HPLC/IC (Continued)

Leach Batch: 295286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-27	HA-12-2'	Soluble	Solid	DI Leach	
600-205599-28	HA-12-4'	Soluble	Solid	DI Leach	
600-205599-29	HA-13-0"-6"	Soluble	Solid	DI Leach	
600-205599-30	HA-13-2'	Soluble	Solid	DI Leach	
600-205599-31	HA-13-3	Soluble	Solid	DI Leach	
600-205599-32	HA-8-0"-6"	Soluble	Solid	DI Leach	
600-205599-33	HA-8-2'	Soluble	Solid	DI Leach	
600-205599-34	HA-14-0"-6"	Soluble	Solid	DI Leach	
600-205599-35	HA-15-0"-6"	Soluble	Solid	DI Leach	
600-205599-36	HA-15-2'	Soluble	Solid	DI Leach	
600-205599-37	HA-15-4'	Soluble	Solid	DI Leach	
600-205599-38	HA-16-0"-6"	Soluble	Solid	DI Leach	
600-205599-39	HA-16-2'	Soluble	Solid	DI Leach	
600-205599-40	HA-17-0"-6"	Soluble	Solid	DI Leach	
MB 600-295286/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-295286/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-205599-21 MS	HA-9-4"	Soluble	Solid	DI Leach	
600-205599-21 MSD	HA-9-4"	Soluble	Solid	DI Leach	
600-205599-31 MS	HA-13-3	Soluble	Solid	DI Leach	
600-205599-31 MSD	HA-13-3	Soluble	Solid	DI Leach	

Leach Batch: 295288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-41	HA-17-2'	Soluble	Solid	DI Leach	
600-205599-42	HA-17-4'	Soluble	Solid	DI Leach	
600-205599-43	HA-18-0"-6"	Soluble	Solid	DI Leach	
600-205599-44	HA-18-2'	Soluble	Solid	DI Leach	
600-205599-45	HA-18-4'	Soluble	Solid	DI Leach	
600-205599-46	HA-19-0"-6"	Soluble	Solid	DI Leach	
600-205599-47	HA-19-2'	Soluble	Solid	DI Leach	
600-205599-48	HA-19-4'	Soluble	Solid	DI Leach	
MB 600-295288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-295288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-205599-41 MS	HA-17-2'	Soluble	Solid	DI Leach	
600-205599-41 MSD	HA-17-2'	Soluble	Solid	DI Leach	

Analysis Batch: 295774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Soluble	Solid	300.0	295285
600-205599-2	HA-1-1'-6"	Soluble	Solid	300.0	295285
600-205599-3	HA-2-0"-6"	Soluble	Solid	300.0	295285
600-205599-4	HA-2-2'	Soluble	Solid	300.0	295285
600-205599-5	HA-2-4'	Soluble	Solid	300.0	295285
600-205599-6	HA-3-0"-6"	Soluble	Solid	300.0	295285
600-205599-7	HA-3-2'	Soluble	Solid	300.0	295285
600-205599-8	HA-4-0"-6"	Soluble	Solid	300.0	295285
600-205599-9	HA-4-1'	Soluble	Solid	300.0	295285
600-205599-10	HA-5-0"-6"	Soluble	Solid	300.0	295285
600-205599-11	HA-5-1'	Soluble	Solid	300.0	295285
600-205599-12	HA-6-0"-6"	Soluble	Solid	300.0	295285
600-205599-13	HA-6-1'	Soluble	Solid	300.0	295285

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

HPLC/IC (Continued)

Analysis Batch: 295774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-14	HA-7-0"-6"	Soluble	Solid	300.0	295285
600-205599-15	HA-7-2'	Soluble	Solid	300.0	295285
600-205599-16	HA-7-4'	Soluble	Solid	300.0	295285
600-205599-17	HA-7-6'	Soluble	Solid	300.0	295285
600-205599-18	HA-20-0"-6"	Soluble	Solid	300.0	295285
600-205599-19	HA-9-0"-6"	Soluble	Solid	300.0	295285
600-205599-20	HA-9-2'	Soluble	Solid	300.0	295285
MB 600-295285/1-A	Method Blank	Soluble	Solid	300.0	295285
LCS 600-295285/2-A	Lab Control Sample	Soluble	Solid	300.0	295285
600-205599-1 MS	HA-1-0"-6"	Soluble	Solid	300.0	295285
600-205599-1 MSD	HA-1-0"-6"	Soluble	Solid	300.0	295285
600-205599-11 MS	HA-5-1'	Soluble	Solid	300.0	295285
600-205599-11 MSD	HA-5-1'	Soluble	Solid	300.0	295285

Analysis Batch: 295816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-21	HA-9-4"	Soluble	Solid	300.0	295286
600-205599-22	HA-10-0"-6"	Soluble	Solid	300.0	295286
600-205599-23	HA-11-0"-6"	Soluble	Solid	300.0	295286
600-205599-24	HA-11-2'	Soluble	Solid	300.0	295286
600-205599-25	HA-11-4'	Soluble	Solid	300.0	295286
600-205599-26	HA-12-0"-6"	Soluble	Solid	300.0	295286
600-205599-27	HA-12-2'	Soluble	Solid	300.0	295286
600-205599-28	HA-12-4'	Soluble	Solid	300.0	295286
600-205599-29	HA-13-0"-6"	Soluble	Solid	300.0	295286
600-205599-30	HA-13-2'	Soluble	Solid	300.0	295286
600-205599-31	HA-13-3	Soluble	Solid	300.0	295286
600-205599-32	HA-8-0"-6"	Soluble	Solid	300.0	295286
600-205599-33	HA-8-2'	Soluble	Solid	300.0	295286
600-205599-34	HA-14-0"-6"	Soluble	Solid	300.0	295286
600-205599-35	HA-15-0"-6"	Soluble	Solid	300.0	295286
600-205599-36	HA-15-2'	Soluble	Solid	300.0	295286
600-205599-37	HA-15-4'	Soluble	Solid	300.0	295286
600-205599-38	HA-16-0"-6"	Soluble	Solid	300.0	295286
600-205599-39	HA-16-2'	Soluble	Solid	300.0	295286
600-205599-40	HA-17-0"-6"	Soluble	Solid	300.0	295286
600-205599-41	HA-17-2'	Soluble	Solid	300.0	295288
600-205599-42	HA-17-4'	Soluble	Solid	300.0	295288
600-205599-43	HA-18-0"-6"	Soluble	Solid	300.0	295288
600-205599-44	HA-18-2'	Soluble	Solid	300.0	295288
600-205599-45	HA-18-4'	Soluble	Solid	300.0	295288
600-205599-46	HA-19-0"-6"	Soluble	Solid	300.0	295288
600-205599-47	HA-19-2'	Soluble	Solid	300.0	295288
600-205599-48	HA-19-4'	Soluble	Solid	300.0	295288
MB 600-295286/1-A	Method Blank	Soluble	Solid	300.0	295286
MB 600-295288/1-A	Method Blank	Soluble	Solid	300.0	295288
LCS 600-295286/2-A	Lab Control Sample	Soluble	Solid	300.0	295286
LCS 600-295288/2-A	Lab Control Sample	Soluble	Solid	300.0	295288
600-205599-21 MS	HA-9-4"	Soluble	Solid	300.0	295286
600-205599-21 MSD	HA-9-4"	Soluble	Solid	300.0	295286
600-205599-31 MS	HA-13-3	Soluble	Solid	300.0	295286

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

HPLC/IC (Continued)

Analysis Batch: 295816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-31 MSD	HA-13-3	Soluble	Solid	300.0	295286
600-205599-41 MS	HA-17-2'	Soluble	Solid	300.0	295288
600-205599-41 MSD	HA-17-2'	Soluble	Solid	300.0	295288

General Chemistry

Analysis Batch: 295231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-1	HA-1-0"-6"	Total/NA	Solid	2540B	
600-205599-2	HA-1-1'-6"	Total/NA	Solid	2540B	
600-205599-3	HA-2-0"-6"	Total/NA	Solid	2540B	
600-205599-4	HA-2-2'	Total/NA	Solid	2540B	
600-205599-5	HA-2-4'	Total/NA	Solid	2540B	
600-205599-6	HA-3-0"-6"	Total/NA	Solid	2540B	
600-205599-7	HA-3-2'	Total/NA	Solid	2540B	
600-205599-8	HA-4-0"-6"	Total/NA	Solid	2540B	
600-205599-9	HA-4-1'	Total/NA	Solid	2540B	
600-205599-10	HA-5-0"-6"	Total/NA	Solid	2540B	
600-205599-11	HA-5-1'	Total/NA	Solid	2540B	
600-205599-12	HA-6-0"-6"	Total/NA	Solid	2540B	
600-205599-13	HA-6-1'	Total/NA	Solid	2540B	
600-205599-14	HA-7-0"-6"	Total/NA	Solid	2540B	
600-205599-15	HA-7-2'	Total/NA	Solid	2540B	
600-205599-16	HA-7-4'	Total/NA	Solid	2540B	
600-205599-17	HA-7-6'	Total/NA	Solid	2540B	
600-205599-18	HA-20-0"-6"	Total/NA	Solid	2540B	
600-205599-19	HA-9-0"-6"	Total/NA	Solid	2540B	
600-205599-20	HA-9-2'	Total/NA	Solid	2540B	
600-205599-21	HA-9-4"	Total/NA	Solid	2540B	
600-205599-22	HA-10-0"-6"	Total/NA	Solid	2540B	
600-205599-23	HA-11-0"-6"	Total/NA	Solid	2540B	
600-205599-24	HA-11-2'	Total/NA	Solid	2540B	
600-205599-25	HA-11-4'	Total/NA	Solid	2540B	
600-205599-26	HA-12-0"-6"	Total/NA	Solid	2540B	
600-205599-27	HA-12-2'	Total/NA	Solid	2540B	
600-205599-28	HA-12-4'	Total/NA	Solid	2540B	
600-205599-29	HA-13-0"-6"	Total/NA	Solid	2540B	
600-205599-30	HA-13-2'	Total/NA	Solid	2540B	
600-205599-31	HA-13-3	Total/NA	Solid	2540B	
600-205599-32	HA-8-0"-6"	Total/NA	Solid	2540B	
600-205599-33	HA-8-2'	Total/NA	Solid	2540B	
600-205599-34	HA-14-0"-6"	Total/NA	Solid	2540B	
600-205599-35	HA-15-0"-6"	Total/NA	Solid	2540B	
600-205599-36	HA-15-2'	Total/NA	Solid	2540B	
600-205599-37	HA-15-4'	Total/NA	Solid	2540B	
600-205599-38	HA-16-0"-6"	Total/NA	Solid	2540B	
600-205599-39	HA-16-2'	Total/NA	Solid	2540B	
600-205599-40	HA-17-0"-6"	Total/NA	Solid	2540B	
600-205599-41	HA-17-2'	Total/NA	Solid	2540B	
600-205599-42	HA-17-4'	Total/NA	Solid	2540B	
600-205599-43	HA-18-0"-6"	Total/NA	Solid	2540B	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

General Chemistry (Continued)

Analysis Batch: 295231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-205599-44	HA-18-2'	Total/NA	Solid	2540B	
600-205599-45	HA-18-4'	Total/NA	Solid	2540B	
600-205599-46	HA-19-0"-6"	Total/NA	Solid	2540B	
600-205599-47	HA-19-2'	Total/NA	Solid	2540B	
600-205599-48	HA-19-4'	Total/NA	Solid	2540B	
600-205599-1 DU	HA-1-0"-6"	Total/NA	Solid	2540B	
600-205599-11 DU	HA-5-1'	Total/NA	Solid	2540B	
600-205599-21 DU	HA-9-4"	Total/NA	Solid	2540B	
600-205599-31 DU	HA-13-3	Total/NA	Solid	2540B	
600-205599-41 DU	HA-17-2'	Total/NA	Solid	2540B	

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-1-0"-6"**Lab Sample ID: 600-205599-1****Date Collected: 05/20/20 10:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-1-0"-6"**Lab Sample ID: 600-205599-1****Date Collected: 05/20/20 10:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 97.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295244	05/27/20 14:25	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 09:12	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 16:41	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 17:02	W1N	TAL HOU

Client Sample ID: HA-1-1'-6"**Lab Sample ID: 600-205599-2****Date Collected: 05/20/20 10:50****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-1-1'-6"**Lab Sample ID: 600-205599-2****Date Collected: 05/20/20 10:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 91.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295244	05/27/20 15:38	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 09:36	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 17:14	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 18:03	W1N	TAL HOU

Client Sample ID: HA-2-0"-6"**Lab Sample ID: 600-205599-3****Date Collected: 05/20/20 11:10****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-2-0"-6"**Lab Sample ID: 600-205599-3****Date Collected: 05/20/20 11:10****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295244	05/27/20 16:03	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 10:01	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 08:37	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 18:24	W1N	TAL HOU

Client Sample ID: HA-2-2'**Lab Sample ID: 600-205599-4****Date Collected: 05/20/20 11:20****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-2-2'**Lab Sample ID: 600-205599-4****Date Collected: 05/20/20 11:20****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 89.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295295	05/27/20 17:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 14:21	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 10:25	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 09:10	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295774	06/03/20 18:44	W1N	TAL HOU

Client Sample ID: HA-2-4'**Lab Sample ID: 600-205599-5****Date Collected: 05/20/20 11:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-2-4'**Lab Sample ID: 600-205599-5****Date Collected: 05/20/20 11:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295295	05/27/20 17:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 14:46	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 10:49	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-2-4'**Lab Sample ID: 600-205599-5****Date Collected: 05/20/20 11:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 17:48	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295774	06/03/20 19:05	W1N	TAL HOU

Client Sample ID: HA-3-0"-6"**Lab Sample ID: 600-205599-6****Date Collected: 05/20/20 11:45****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-3-0"-6"**Lab Sample ID: 600-205599-6****Date Collected: 05/20/20 11:45****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295295	05/27/20 17:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 15:10	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 11:13	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 18:21	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295774	06/03/20 19:25	W1N	TAL HOU

Client Sample ID: HA-3-2'**Lab Sample ID: 600-205599-7****Date Collected: 05/20/20 11:55****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-3-2'**Lab Sample ID: 600-205599-7****Date Collected: 05/20/20 11:55****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 15:34	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 11:38	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 18:55	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295774	06/03/20 20:26	W1N	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-4-0"-6"**Lab Sample ID: 600-205599-8****Date Collected: 05/20/20 12:10****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-4-0"-6"**Lab Sample ID: 600-205599-8****Date Collected: 05/20/20 12:10****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 15:58	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 12:02	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 19:29	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		1	295774	06/03/20 20:47	W1N	TAL HOU

Client Sample ID: HA-4-1'**Lab Sample ID: 600-205599-9****Date Collected: 05/20/20 12:20****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-4-1'**Lab Sample ID: 600-205599-9****Date Collected: 05/20/20 12:20****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 67.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 16:23	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 12:26	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 20:02	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 21:07	W1N	TAL HOU

Client Sample ID: HA-5-0"-6"**Lab Sample ID: 600-205599-10****Date Collected: 05/20/20 12:35****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-5-0"-6"**Lab Sample ID: 600-205599-10****Date Collected: 05/20/20 12:35****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 80.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 16:47	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 12:51	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 22:15	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		1	295774	06/03/20 21:27	W1N	TAL HOU

Client Sample ID: HA-5-1'**Lab Sample ID: 600-205599-11****Date Collected: 05/20/20 12:45****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-5-1'**Lab Sample ID: 600-205599-11****Date Collected: 05/20/20 12:45****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295188	05/26/20 17:13	DT1	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 17:11	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 13:39	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 22:48	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		1	295774	06/03/20 21:48	W1N	TAL HOU

Client Sample ID: HA-6-0"-6"**Lab Sample ID: 600-205599-12****Date Collected: 05/20/20 13:00****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-6-0"-6"**Lab Sample ID: 600-205599-12****Date Collected: 05/20/20 13:00****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 97.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 17:35	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 14:04	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-6-0"-6"**Lab Sample ID: 600-205599-12****Date Collected: 05/20/20 13:00****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 97.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 23:21	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 22:49	W1N	TAL HOU

Client Sample ID: HA-6-1'**Lab Sample ID: 600-205599-13****Date Collected: 05/20/20 13:10****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-6-1'**Lab Sample ID: 600-205599-13****Date Collected: 05/20/20 13:10****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 92.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 18:00	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 14:28	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/02/20 23:54	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 23:09	W1N	TAL HOU

Client Sample ID: HA-7-0"-6"**Lab Sample ID: 600-205599-14****Date Collected: 05/20/20 13:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-7-0"-6"**Lab Sample ID: 600-205599-14****Date Collected: 05/20/20 13:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 18:24	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 14:53	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 00:27	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/03/20 23:30	W1N	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-7-2'**Date Collected: 05/20/20 13:50****Date Received: 05/22/20 10:10****Lab Sample ID: 600-205599-15****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-7-2'**Date Collected: 05/20/20 13:50****Date Received: 05/22/20 10:10****Lab Sample ID: 600-205599-15****Matrix: Solid****Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 18:48	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 15:18	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 01:00	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295774	06/04/20 00:31	W1N	TAL HOU

Client Sample ID: HA-7-4'**Date Collected: 05/20/20 14:00****Date Received: 05/22/20 10:10****Lab Sample ID: 600-205599-16****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

Client Sample ID: HA-7-4'**Date Collected: 05/20/20 14:00****Date Received: 05/22/20 10:10****Lab Sample ID: 600-205599-16****Matrix: Solid****Percent Solids: 93.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 19:13	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 15:42	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 01:33	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295774	06/04/20 00:52	W1N	TAL HOU

Client Sample ID: HA-7-6'**Date Collected: 05/20/20 14:10****Date Received: 05/22/20 10:10****Lab Sample ID: 600-205599-17****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 09:47	AAZ	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-7-6'**Lab Sample ID: 600-205599-17****Date Collected: 05/20/20 14:10****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 68.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 19:37	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 16:07	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 02:06	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295774	06/04/20 01:12	W1N	TAL HOU

Client Sample ID: HA-20-0"-6"**Lab Sample ID: 600-205599-18****Date Collected: 05/20/20 13:25****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-20-0"-6"**Lab Sample ID: 600-205599-18****Date Collected: 05/20/20 13:25****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 20:01	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 16:32	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 02:40	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295774	06/04/20 01:32	W1N	TAL HOU

Client Sample ID: HA-9-0"-6"**Lab Sample ID: 600-205599-19****Date Collected: 05/20/20 14:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-9-0"-6"**Lab Sample ID: 600-205599-19****Date Collected: 05/20/20 14:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 20:25	KLV	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 16:56	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-9-0"-6"**Lab Sample ID: 600-205599-19****Date Collected: 05/20/20 14:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 96.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 03:46	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295774	06/04/20 01:53	W1N	TAL HOU

Client Sample ID: HA-9-2'**Lab Sample ID: 600-205599-20****Date Collected: 05/20/20 14:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-9-2'**Lab Sample ID: 600-205599-20****Date Collected: 05/20/20 14:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 73.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 09:00	WS1	TAL HOU
Total/NA	Prep	5030C			295085	05/23/20 07:38	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295084	05/23/20 17:21	WS1	TAL HOU
Total/NA	Prep	3546			295621	06/02/20 08:02	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295673	06/03/20 04:19	RJV	TAL HOU
Soluble	Leach	DI Leach			295285	05/27/20 14:22	AAZ	TAL HOU
Soluble	Analysis	300.0		20	295774	06/04/20 02:13	W1N	TAL HOU

Client Sample ID: HA-9-4"**Lab Sample ID: 600-205599-21****Date Collected: 05/20/20 14:50****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-9-4"**Lab Sample ID: 600-205599-21****Date Collected: 05/20/20 14:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 70.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 09:22	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 13:49	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 16:38	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295816	06/04/20 14:11	W1N	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-10-0"-6"**Lab Sample ID: 600-205599-22****Date Collected: 05/20/20 15:05****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-10-0"-6"**Lab Sample ID: 600-205599-22****Date Collected: 05/20/20 15:05****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 09:44	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 14:13	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 18:21	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/04/20 15:11	W1N	TAL HOU

Client Sample ID: HA-11-0"-6"**Lab Sample ID: 600-205599-23****Date Collected: 05/20/20 15:20****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-11-0"-6"**Lab Sample ID: 600-205599-23****Date Collected: 05/20/20 15:20****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 93.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 10:07	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 14:38	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 18:56	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/04/20 15:32	W1N	TAL HOU

Client Sample ID: HA-11-2'**Lab Sample ID: 600-205599-24****Date Collected: 05/20/20 15:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-11-2'**Lab Sample ID: 600-205599-24****Date Collected: 05/20/20 15:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 78.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 10:29	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 15:02	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 19:30	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/04/20 15:52	W1N	TAL HOU

Client Sample ID: HA-11-4'**Lab Sample ID: 600-205599-25****Date Collected: 05/20/20 15:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-11-4'**Lab Sample ID: 600-205599-25****Date Collected: 05/20/20 15:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 69.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 10:51	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 15:34	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 20:05	RJV	TAL HOU
Total/NA	Prep	3546			296079	06/08/20 12:04	EAT	TAL HOU
Total/NA	Analysis	8015D		1	296177	06/09/20 16:26	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295816	06/04/20 16:13	W1N	TAL HOU

Client Sample ID: HA-12-0"-6"**Lab Sample ID: 600-205599-26****Date Collected: 05/20/20 15:45****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-12-0"-6"**Lab Sample ID: 600-205599-26****Date Collected: 05/20/20 15:45****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 11:13	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-12-0"-6"**Lab Sample ID: 600-205599-26****Date Collected: 05/20/20 15:45****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 15:58	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 20:39	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295816	06/04/20 16:33	W1N	TAL HOU

Client Sample ID: HA-12-2'**Lab Sample ID: 600-205599-27****Date Collected: 05/20/20 15:55****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-12-2'**Lab Sample ID: 600-205599-27****Date Collected: 05/20/20 15:55****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 69.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 11:36	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 16:23	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 21:47	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295816	06/04/20 17:34	W1N	TAL HOU

Client Sample ID: HA-12-4'**Lab Sample ID: 600-205599-28****Date Collected: 05/20/20 16:05****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-12-4'**Lab Sample ID: 600-205599-28****Date Collected: 05/20/20 16:05****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 80.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 11:58	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 17:12	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 22:21	RJV	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-12-4'**Lab Sample ID: 600-205599-28****Date Collected: 05/20/20 16:05****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 80.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295816	06/04/20 17:55	W1N	TAL HOU

Client Sample ID: HA-13-0"-6"**Lab Sample ID: 600-205599-29****Date Collected: 05/20/20 16:20****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-13-0"-6"**Lab Sample ID: 600-205599-29****Date Collected: 05/20/20 16:20****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 97.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 12:20	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 17:37	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 22:56	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295816	06/04/20 18:15	W1N	TAL HOU

Client Sample ID: HA-13-2'**Lab Sample ID: 600-205599-30****Date Collected: 05/20/20 16:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-13-2'**Lab Sample ID: 600-205599-30****Date Collected: 05/20/20 16:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 87.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295261	05/27/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 12:43	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 18:01	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/03/20 23:30	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/04/20 18:36	W1N	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-13-3**Lab Sample ID: 600-205599-31****Date Collected: 05/20/20 16:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:02	AAZ	TAL HOU

Client Sample ID: HA-13-3**Lab Sample ID: 600-205599-31****Date Collected: 05/20/20 16:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 80.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 13:05	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 18:26	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 00:04	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295816	06/04/20 18:56	W1N	TAL HOU

Client Sample ID: HA-8-0"-6"**Lab Sample ID: 600-205599-32****Date Collected: 05/21/20 09:35****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-8-0"-6"**Lab Sample ID: 600-205599-32****Date Collected: 05/21/20 09:35****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 72.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 13:28	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 18:50	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 00:39	RJV	TAL HOU
Total/NA	Prep	3546			296079	06/08/20 12:04	EAT	TAL HOU
Total/NA	Analysis	8015D		1	296177	06/09/20 17:02	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		1	295816	06/04/20 19:57	W1N	TAL HOU

Client Sample ID: HA-8-2'**Lab Sample ID: 600-205599-33****Date Collected: 05/21/20 09:45****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-8-2'**Lab Sample ID: 600-205599-33****Date Collected: 05/21/20 09:45****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 72.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 13:50	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 19:15	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 01:13	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295816	06/04/20 20:18	W1N	TAL HOU

Client Sample ID: HA-14-0"-6"**Lab Sample ID: 600-205599-34****Date Collected: 05/21/20 10:00****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-14-0"-6"**Lab Sample ID: 600-205599-34****Date Collected: 05/21/20 10:00****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 14:13	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 19:39	WS1	TAL HOU
Total/NA	Prep	3546	DL		295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	295764	06/04/20 01:48	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295816	06/04/20 20:38	W1N	TAL HOU

Client Sample ID: HA-15-0"-6"**Lab Sample ID: 600-205599-35****Date Collected: 05/21/20 10:15****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-15-0"-6"**Lab Sample ID: 600-205599-35****Date Collected: 05/21/20 10:15****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 96.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 14:36	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 20:04	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-15-0"-6"**Lab Sample ID: 600-205599-35****Date Collected: 05/21/20 10:15****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 96.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 02:22	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295816	06/04/20 21:39	W1N	TAL HOU

Client Sample ID: HA-15-2'**Lab Sample ID: 600-205599-36****Date Collected: 05/21/20 10:25****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-15-2'**Lab Sample ID: 600-205599-36****Date Collected: 05/21/20 10:25****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 65.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 14:59	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295336	05/28/20 20:28	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 02:56	RJV	TAL HOU
Total/NA	Prep	3546			296079	06/08/20 12:04	EAT	TAL HOU
Total/NA	Analysis	8015D		1	296177	06/09/20 17:37	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295816	06/04/20 22:00	W1N	TAL HOU

Client Sample ID: HA-15-4'**Lab Sample ID: 600-205599-37****Date Collected: 05/21/20 10:35****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-15-4'**Lab Sample ID: 600-205599-37****Date Collected: 05/21/20 10:35****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 73.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 15:23	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:19	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 12:40	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 04:05	RJV	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-15-4'**Lab Sample ID: 600-205599-37****Date Collected: 05/21/20 10:35****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 73.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			296079	06/08/20 12:04	EAT	TAL HOU
Total/NA	Analysis	8015D		1	296177	06/09/20 18:13	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295816	06/04/20 22:20	W1N	TAL HOU

Client Sample ID: HA-16-0"-6"**Lab Sample ID: 600-205599-38****Date Collected: 05/21/20 10:50****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-16-0"-6"**Lab Sample ID: 600-205599-38****Date Collected: 05/21/20 10:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 15:46	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:20	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 13:04	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 04:40	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		1	295816	06/04/20 22:41	W1N	TAL HOU

Client Sample ID: HA-16-2'**Lab Sample ID: 600-205599-39****Date Collected: 05/21/20 11:00****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-16-2'**Lab Sample ID: 600-205599-39****Date Collected: 05/21/20 11:00****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 93.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295497	05/30/20 16:09	WS1	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:20	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 13:53	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 05:14	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295816	06/04/20 23:01	W1N	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-17-0"-6"

Lab Sample ID: 600-205599-40

Date Collected: 05/21/20 11:30

Matrix: Solid

Date Received: 05/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-17-0"-6"

Lab Sample ID: 600-205599-40

Date Collected: 05/21/20 11:30

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 20:49	KLV	TAL HOU
Total/NA	Prep	5030C			295089	05/23/20 10:20	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 14:18	WS1	TAL HOU
Total/NA	Prep	3546			295690	06/02/20 15:07	EAT	TAL HOU
Total/NA	Analysis	8015D		1	295764	06/04/20 05:48	RJV	TAL HOU
Soluble	Leach	DI Leach			295286	05/27/20 14:24	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/04/20 23:21	W1N	TAL HOU

Client Sample ID: HA-17-2'

Lab Sample ID: 600-205599-41

Date Collected: 05/21/20 11:40

Matrix: Solid

Date Received: 05/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-17-2'

Lab Sample ID: 600-205599-41

Date Collected: 05/21/20 11:40

Matrix: Solid

Date Received: 05/22/20 10:10

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 21:13	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 09:25	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 11:32	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 00:23	W1N	TAL HOU

Client Sample ID: HA-17-4'

Lab Sample ID: 600-205599-42

Date Collected: 05/21/20 11:50

Matrix: Solid

Date Received: 05/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-17-4'**Lab Sample ID: 600-205599-42****Date Collected: 05/21/20 11:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295504	05/30/20 21:37	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 09:49	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 12:06	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 02:05	W1N	TAL HOU

Client Sample ID: HA-18-0"-6"**Lab Sample ID: 600-205599-43****Date Collected: 05/21/20 12:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-18-0"-6"**Lab Sample ID: 600-205599-43****Date Collected: 05/21/20 12:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 15:22	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 10:14	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 12:41	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		20	295816	06/05/20 02:25	W1N	TAL HOU

Client Sample ID: HA-18-2'**Lab Sample ID: 600-205599-44****Date Collected: 05/21/20 12:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:03	AAZ	TAL HOU

Client Sample ID: HA-18-2'**Lab Sample ID: 600-205599-44****Date Collected: 05/21/20 12:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 15:44	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 10:38	WS1	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-18-2'**Lab Sample ID: 600-205599-44****Date Collected: 05/21/20 12:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 13:16	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295816	06/05/20 02:46	W1N	TAL HOU

Client Sample ID: HA-18-4'**Lab Sample ID: 600-205599-45****Date Collected: 05/21/20 12:50****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:05	AAZ	TAL HOU

Client Sample ID: HA-18-4'**Lab Sample ID: 600-205599-45****Date Collected: 05/21/20 12:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 88.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 16:07	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 11:02	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 13:50	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 03:06	W1N	TAL HOU

Client Sample ID: HA-19-0"-6"**Lab Sample ID: 600-205599-46****Date Collected: 05/21/20 13:30****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:05	AAZ	TAL HOU

Client Sample ID: HA-19-0"-6"**Lab Sample ID: 600-205599-46****Date Collected: 05/21/20 13:30****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 94.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLV	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 16:29	KLV	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 11:27	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 14:25	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 03:26	W1N	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - WTU #622 Site

Job ID: 600-205599-1

Client Sample ID: HA-19-2'**Lab Sample ID: 600-205599-47****Date Collected: 05/21/20 13:40****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:05	AAZ	TAL HOU

Client Sample ID: HA-19-2'**Lab Sample ID: 600-205599-47****Date Collected: 05/21/20 13:40****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 16:52	KLK	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 11:51	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 15:00	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 03:47	W1N	TAL HOU

Client Sample ID: HA-19-4'**Lab Sample ID: 600-205599-48****Date Collected: 05/21/20 13:50****Matrix: Solid****Date Received: 05/22/20 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	295231	05/27/20 10:05	AAZ	TAL HOU

Client Sample ID: HA-19-4'**Lab Sample ID: 600-205599-48****Date Collected: 05/21/20 13:50****Matrix: Solid****Date Received: 05/22/20 10:10****Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			295279	05/27/20 14:00	KLK	TAL HOU
Total/NA	Analysis	8260C		1	295568	06/01/20 17:15	KLK	TAL HOU
Total/NA	Prep	5030C			295090	05/28/20 10:22	WS1	TAL HOU
Total/NA	Analysis	8015D		1	295416	05/29/20 12:15	WS1	TAL HOU
Total/NA	Prep	3546			295786	06/03/20 15:12	SMB	TAL HOU
Total/NA	Analysis	8015D		1	295826	06/04/20 15:35	RJV	TAL HOU
Soluble	Leach	DI Leach			295288	05/27/20 14:25	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295816	06/05/20 04:07	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 - WTU #622 Site

Job ID: 600-205599-1

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	Oil Range Organics (C28-C36)



Midland

Chain of Custody Record

Eurofins TestAmerica, Houston

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

Client Information Client Contact: Sarah Johnson Company: ARCADIS U.S., Inc. Address: 1004 North Big Spring Suite 121 City: Midland State, Zip: TX, 79701 Phone: 432-227-0266(Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - WTU #622 Site Site:		Lab PM: Kudchadkar, Sachin G E-Mail: sachin.kudchadkar@testamericainc.com Tracking No(s): #264 COC No: 600-76875-20663.1 Page: 1 of 5 Job #:	
Due Date Requested: TAT Requested (days): PO #: 30049293 / 20200505 WO #: Project #: 60012314 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ice I - Di Water J - EDTA K - EDA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:	
Sample Identification Sample ID: 1A-1-0'-6" Sample ID: 1A-1-1'-6" Sample ID: 1A-2-0'-6" Sample ID: 1A-2-2" Sample ID: 1A-2-4" Sample ID: 1A-3-0'-6" Sample ID: 1A-3-2" Sample ID: 1A-4-0'-6" Sample ID: 1A-4-1" Sample ID: 1A-5-0'-6" Sample ID: 1A-5-1"		Sample Type (C=Comp, G=grab) Sample Time: 1040, 1050, 1110, 1120, 1130, 1145, 1155, 1210, 1220, 1235, 1245 Matrix (V=water, S=solid, O=soil, B=biomass, A=air) Solid, Solid, Solid, Solid, Solid, Solid, Solid, Solid, Solid, Solid, Solid, Solid	
Sample Date 5-20-20		Special Instructions/Note: 600-205599 Chain of Custody	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Special Instructions/QC Requirements Date/Time: 5-21-20 1621 Date/Time: 5-21-20 1621 Date/Time: 5-21-20 1621	
Custody Seals Intact: Yes ☐ No ☐		Cooling Temperature(s) °C and Other Remarks 5-21-20 1621 5-21-20 1621 5-21-20 1621	

Ver: 01/16/2019

Client Information			Sampler: J. Stankun		Lab PM: Kuchadkar, Sachin G	Tracking No(s): #264	COC No: 600-76875-20663.1
Client Contact: Sarah Johnson			Phone: 472-246-4547		E-Mail: sachin.kuchadkar@testamericainc.com		Page: 2 of 5
Company: ARCADIS U.S., Inc.			Job #:				
Address: 1004 North Big Spring Suite 121							
City: Midland							
State, Zip: TX, 79701							
Phone: 432-227-0266(Tel)							
Email: sarah.johnson@arcadis.com							
Project Name: Chevron - WTU #622 Site							
Site:							
Due Date Requested:			Analysis Requested				
TAT Requested (days):							
PO #: 30049293 / 20200505							
WO #:							
Project #: 60012314							
SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wetweight, Dryweight, Other)	Special Instructions/Note:	
HA-b-0"-b"		5-20-20	1300	G	Solid		
HA-b-1-			1310		Solid		
HA-7-0"-b"			1340		Solid		
HA-7-2"			1350		Solid		
HA-7-4"			1400		Solid		
HA-7-6"			1410		Solid		
HA-20-0"-b"			1325		Solid		
HA-9-0"-b"			1430		Solid		
HA-9-2"			1440		Solid		
HA-9-4"			1450		Solid		
HA-10-0"-b"			1505		Solid		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Method of Shipment:			
Relinquished by: [Signature]		Date/Time: 5-20-20		Received by: [Signature] Date/Time: 5-21-20			
Relinquished by: [Signature]		Date/Time: 5-21-20		Received by: [Signature] Date/Time: 5/22/20 1010			
Relinquished by: [Signature]		Date/Time:		Received by: [Signature] Date/Time:			
Custody Seals Intact:		Custody Seal No.:		Company:			
Δ Yes Δ No				Company			

Eurofins TestAmerica, Houston

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

Chain of Custody Record

Midland



Environmental Testing
America

Client Information Client Contact: Sarah Johnson Company: ARCADIS U.S., Inc. Address: 1004 North Big Spring Suite 121 City: Midland State, Zip: TX, 79701 Phone: 432-227-0266 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - WTU #622 Site Site:		Sampler: Justin Nixon Lab PM: Kuchadkar, Sachin G Tracking No(s): #264 Phone: 432-246-9547 E-Mail: sachin.kuchadkar@testamericainc.com		COC No: 600-76875-20663.1 Page: 3 of 5 Job #:	
Due Date Requested: TAT Requested (days): PO #: 30049293 / 20200505 WO #: Project #: 60012314 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Archlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=other, BT=biological, BT=biological, A=air)		Total Number of Containers Special Instructions/Note:			
1A-11-0'-6" 1A-11-2' 1A-11-4' 1A-12-0'-6" 1A-12-2' 1A-12-4' 1A-13-0'-6" 1A-13-2' 1A-13-3' 1A-8-0'-1'-6" 1A-8-2'		8015D DRO - (MOD) Diesel Range Organics 8015D GRO - 80000 8015D BTEX 8015D CI-			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 5-21-20 Company: Arcadis		Received by: [Signature] Date/Time: 5-21-20 Company:			
Relinquished by: [Signature] Date/Time: 5-21-20 Company:		Received by: [Signature] Date/Time: 5-21-20 Company:			
Relinquished by: [Signature] Date/Time: 5-21-20 Company:		Received by: [Signature] Date/Time: 5-21-20 Company:			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			

Ver. 01/16/2019

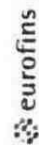
Eurofins TestAmerica, Houston

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

Chain of Custody Record

Midland

#264



Environment Testing
America

Client Information Client Contact: Sarah Johnson Phone: 732-296-9547 Email: sachin.kudchadkar@testamericainc.com		Lab PM: Kudchadkar, Sachin G E-Mail: sachin.kudchadkar@testamericainc.com		Tracking No(s): 600-76875-20663 1 Page: 1 of 5 Job #:	
Address: 1004 North Big Spring Suite 121 City: Midland State, Zip: TX, 79701 Phone: 432-227-0266 (Tel) Email: sarah.johnson@arcadis.com Project Name: Chevron - WTU #622 Site Site:		Due Date Requested: TAT Requested (days): PO #: 30049293 / 20200505 WO #: Project #: 60012314 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Sample Identification Sample ID: 14-14-0'-6" Sample ID: 14-15-0'-6" Sample ID: 14-15-2' Sample ID: 14-15-4' Sample ID: 14-16-0'-6" Sample ID: 14-16-2' Sample ID: 14-17-0'-6" Sample ID: 14-17-2' Sample ID: 14-17-4' Sample ID: 14-18-0'-6" Sample ID: 14-18-2'		Sample Date: 5-20-20 Sample Time: 1600 Sample Time: 1615 Sample Time: 1625 Sample Time: 1635 Sample Time: 1650 Sample Time: 1100 Sample Time: 1130 Sample Time: 1140 Sample Time: 1150 Sample Time: 1230 Sample Time: 1240		Matrix (V=water, S=solid, O=volatile, BT=task, A=air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 5-20-20 1621		Company:	
Relinquished by:		Date/Time: 5-21-20 1621		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Ver. 01/16/2019

Eurofins TestAmerica Houston

Loc: 600
205599Environment Testing
TestAmerica

20 MAY 22 10:10

Sample Receipt Checklist

JOB NUMBER: _____

Date/Time Received: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 3

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7565	Y / N	Y / N	2.8	678	-0.1	2.7
8127	Y / N	Y / N	3.1	1	1	3.0
7808	Y / N	Y / N	1.8			1.7
	Y / N	Y / N				
	Y / N	Y / N				5/22/20
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YESBase samples are >pH 12: ☐ YES ☐ NOAcid 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:

5/22/20

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-205599-1

Login Number: 205599

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7,3.0,1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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.



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

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 103491

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 103491
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Accepted as information only.	2/24/2023
amaxwell	Proceed with additional delineation of work plan development.	2/24/2023
amaxwell	Submit work plan via the OCD permitting portal by 6/2/2023.	2/24/2023