Armando Martinez
Project Manager

Chevron Environmental Management Company
354 State Highway 38
Questa, NM 87556-0469
Work: 575.586.7639
Cell: 575.586.0811
amarti@chevron.com

February 14, 2022

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

Re: South Culebra Bluff Unit 23-14
2020 Soil Assessment Report
2RP-4875
Eddy County, New Mexico

Dear whom it concerns,

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

- South Culebra Bluff Unit 23-14 – February 14, 2022 Soil Assessment Report

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

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

Sincerely,

Armando Martinez

Encl. South Culebra Bluff Unit 23-14, 2RP-4875 2020 Soil Assessment Report

cc. Amy Barnhill, Chevron/MCBU

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAB1821142197
District RP	2RP-4875
Facility ID	30-015-33607
Application ID	pAB1821142114

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.284873 Longitude -104.061240
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: South Culebra Bluff Unit 23 #14	Site Type: Tank Battery
Date Release Discovered: July 14, 2018	API# *(if applicable):* 30-015-33607

Unit Letter	Section	Township	Range	County
N	23	23S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) ~132 bbls	Volume Recovered (bbls) ~60 bbls + 20 blls of oil/rainwater mix
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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)
Cause of Release: Equipment failure from the circulatory pump that controls the oil tank caused a tank to overflow		

State of New Mexico
Oil Conservation Division

Incident ID	NAB1821142197
District RP	2RP-4875
Facility ID	30-015-33607
Application ID	pAB1821142114

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? **Release volume is greater than 25 bbls.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Josh Turner contacted Gilbert Cordero on July 14, 2018 by an unknown means.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Armando Martinez Title: Project Manager

Signature: Date: 2/21/22

email: amarti@chevron.com Telephone: 575.586.7639

OCD Only

Received by: Date:

Incident ID	NAB1821142197
District RP	2RP-4875
Facility ID	30-015-33607
Application ID	pAB1821142114

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?	30 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☒ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs – **Soil borings will be provided for the next round of sampling**
- ☐ Photographs including date and GIS information – **Photographs from the time of the release were not provided.**
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	NAB1821142197
District RP	2RP-4875
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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: Project Manager

Signature: Date: 2/21/22

email: amarti@chevron.com Telephone: 575.586.7639

OCD Only

Received by: Jennifer Nobui Date: 03/15/2022

ARCADIS

Chevron Environmental Management Company

2020 Soil Assessment Report

South Culebra Bluff Unit 23-14

Case No. 2RP-4875

February 2022

2020 Soil Assessment Report

South Culebra Bluff Unit 23-14
Case No. 2RP-4875

February 2022 2/

Prepared By:
Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

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

Our Ref:
30051439

Sarah Johnson
Task Manager II

Scott Foord, PG
Certified Project Manager

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1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing soil assessment activities for the South Culebra Bluff Unit 23-14 (Site).

2 Project Summary

The Site is located approximately 2 miles east of Loving, New Mexico. The Site is in Unit N, Section 23, Township 23 South, Range 28 East, in Eddy County, New Mexico, on private land.

On July 14, 2018, a release due to equipment failure from the circulatory pump that controls the oil tank was discovered at the Site. Rockcliff Operating New Mexico, LLC (Rockcliff) (the previous operator of this well) notified the New Mexico Oil Conservation Division (NMOCD) of the release and it was assigned remediation permit number 2RP-4875. According to the NMOCD Initial C-141 Form filed by Rockcliff on July 23, 2018, the oil was contained within the earthen firewall. Initial response activities included turning off the circulatory pump and wells. A vacuum truck was utilized to remove standing fluids. The Initial C-141 Form indicates that approximately 60 barrels (bbls) of oil and 20 bbls of oil and rain mixture were recovered. The fluids were disposed of at a NMOCD approved facility. The Initial C-141 Form is available in **Appendix A**.

2.1 Previous Assessment

According to available file information, on July 16, 2018, Souder Miller Associates (SMA) collected eight soil samples to depths ranging from 1 to 3 feet below ground surface (ft bgs) within the impacted area (L1, L2, L3 and L4). The soil samples were submitted for laboratory analysis for chloride using EPA Method 300; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and total petroleum hydrocarbons (TPH) motor, diesel and gasoline range organics (ORO, DRO, and GRO) by EPA Method 8015D. A summary of laboratory results is included as **Appendix B**, but a copy of the laboratory analytical report was not available to Arcadis. The Site Map with sample locations from the initial assessment performed by SMA is available in **Appendix C**.

On August 3, 2018, SMA collected an additional seven soil samples at the L1, L3 and L4 locations to depths ranging from 4 to 8 ft bgs. The soil samples were collected for laboratory analysis for chloride using EPA Method 300, BTEX using EPA Method 8021B and/or TPH (MRO, DRO and GRO) by EPA Method 8015D.

On September 17, 2018, SMA collected eleven additional soil samples at the L2 and L3 locations to depths ranging from 5 to 30 ft bgs. The soil samples were collected for laboratory analysis for chloride using EPA Method 300, BTEX using EPA Method 8021B and/or TPH (MRO, DRO and GRO) by EPA Method 8015D.

Total TPH exceeded NMOCD screening criteria (100 milligrams per kilogram (mg/Kg)) for sites with a depth to water less than 50 ft bgs at the following sample locations:

• LI at 1 ft bgs: 29,200 mg/Kg	• L3 at 5 ft bgs: 650 mg/kg
• L2 at 1 ft bgs: 7,290 mg/Kg	• L4 at 1 ft bgs: 7,860 mg/Kg
• L3 at 1 ft bgs: 8,044 mg/Kg	

Chloride exceeded NMOCD screening criteria (600 mg/Kg) for sites with a depth to groundwater less than 50 ft bgs at the following sample locations:

• L2 at 1 ft bgs: 6,600 mg/Kg	• L3 at 5 ft bgs: 2,000 mg/Kg	• L3 at 14 ft bgs: 610 mg/Kg
• L3 at 1 ft bgs: 1,100 mg/Kg	• L3 at 8 ft bgs: 920 mg/Kg	
• L3 at 2 ft bgs: 1,100 mg/Kg	• L3 at 10 ft bgs: 1,000 mg/kg	

Chevron acquired the lease for this well in October 2018. CEMC requested to defer site investigation and remediation activities until the facility is decommissioned in a Site Deferral Request Letter submitted to the NMOCD on June 13, 2019. On June 25, 2019, Robert Hamlet (NMOCD District 2) denied the deferral request. Mr. Hamlet requested removal of the top foot of soil within the berm due to the elevated TPH above the site specific NMOCD soil screening criteria for total TPH with groundwater less than 50 ft bgs (100 mg/Kg). The following soil assessment activities were conducted to further assess soil conditions prior to decommissioning activities at the Site. Chevron operations has subsequently plugged and abandoned the well head and decommissioned all ancillary production equipment at the Site.

3 Soil Assessment

On May 4-5, 2020, Arcadis personnel collected soil samples at fifteen locations (HA-1 through HA-15) within the release area. The soil samples were collected with a hand auger at depths ranging from the surface (0”-3”) to approximately 5 ft bgs. The sample locations were determined based on information obtained associated with the previous release. The soil samples were collected in two- and four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via FedEx. Upon receival by the laboratory, the soil samples were analyzed for chloride, TPH (GRO, DRO, and ORO), and BTEX by USEPA Methods 300, 8015 and 8021B, respectively. Soil sample locations are presented in **Figure 2**.

4 Soil Analytical Results

The soil sample 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 less than 50 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**.

4.1 Chloride

- Chloride exceeded the NMAC screening standard of 600 mg/Kg in 22 of the 35 samples collected, with concentrations ranging from 642 mg/Kg at HA-6 (0 – 6 inches bgs) to 10,900 mg/Kg at HA-8 (3 feet bgs).

4.2 TPH

- Total TPH exceeded the NMAC screening standard of 100 mg/Kg in 33 of the 35 samples collected, with concentrations ranging from 124 mg/Kg at HA-4 (0 – 6 inches bgs) to 43,612 mg/Kg at HA-11 (0 – 6 inches).

4.3 BTEX

- BTEX exceeded the NMAC screening standard of 50 mg/Kg in four of the 35 samples collected, with concentrations ranging from 110.407 mg/Kg at HA-13 (2 feet bgs) to 306.54 mg/Kg at HA-10 (4 feet bgs).

5 Summary

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

- Chloride has not been delineated in soil at the Site.
- TPH has not been delineated in soil at the Site.
- BTEX 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, TPH, and BTEX impact in soil has 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
South Culebra Bluff Unit 23-14
Eddy County, New Mexico

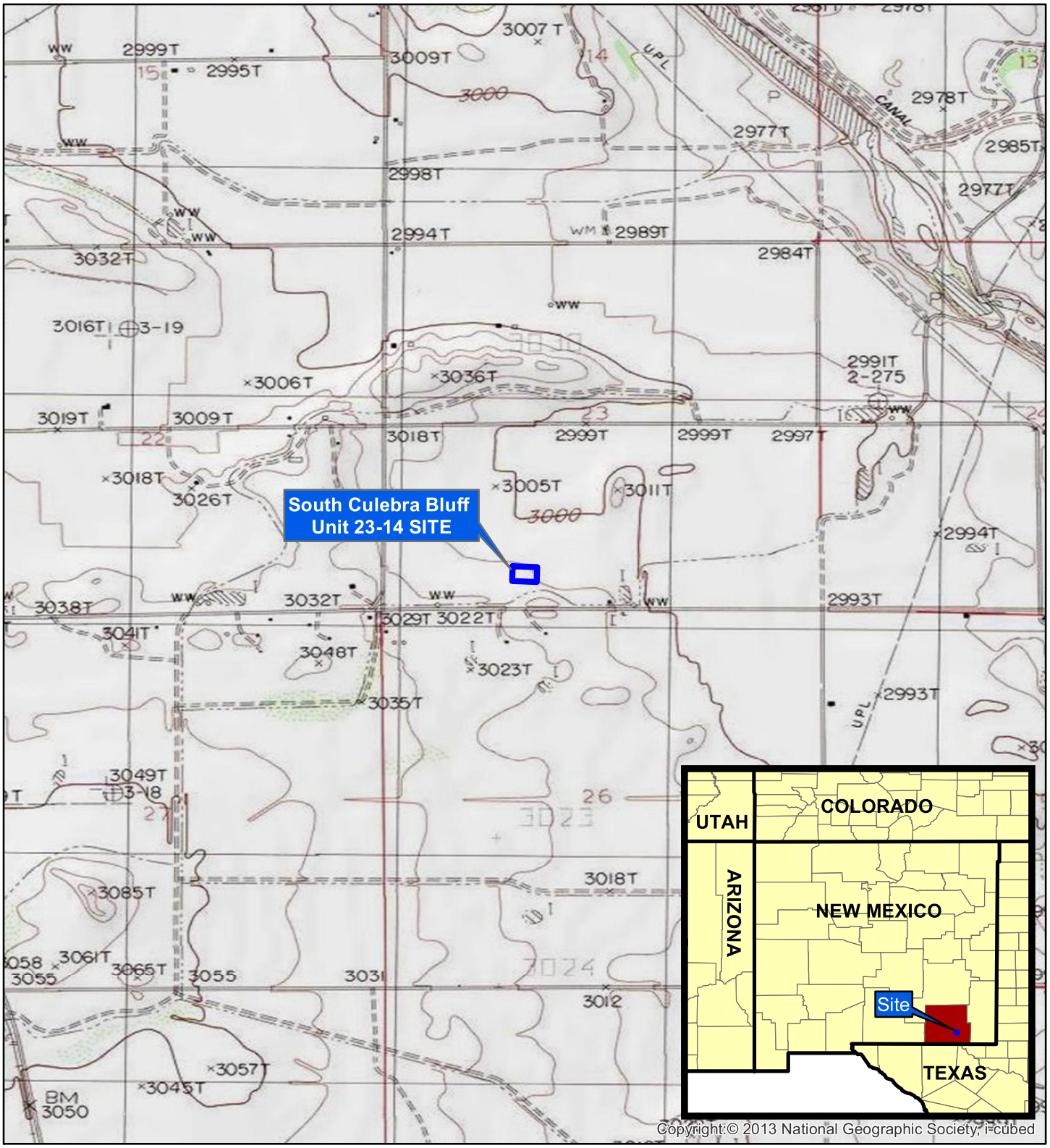
ARCADIS Design & Consultancy for natural and built assets

Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards			10	--	--	--	50	--	--	--	100	600
HA-1	0-"6"	05/04/2020	<0.000607	**0.00252 J**	<0.000982	<0.00109	**0.005199 J**	<0.607	**1,280**	**2,620**	**3,901**	**9,230**
HA-2	0-"6"	05/04/2020	<0.000595	**0.00664**	<0.000963	<0.00107	**0.009268 J**	<0.633	**13.3**	**65.4**	**79**	**6,730**
	1'	05/04/2020	<0.000674	**0.00284 J**	<0.00109	<0.00121	**0.005814 J**	<0.619	**18.4**	**40.2**	**59**	**3,840**
HA-3	0-"6"	05/04/2020	<0.000634	**0.00450 J**	<0.00103	<0.00114	**0.007304 J**	<0.666	**644**	**1,420**	**2,065**	**4,060**
	1'	05/04/2020	<0.000770	**0.00272 J**	<0.00125	<0.00138	**0.00612 J**	<0.677	**576**	**2,200**	**2,777**	**2,350**
HA-4	0-"6"	05/04/2020	<0.000781	**0.00425 J**	<0.00126	<0.00140	**0.007691 J**	<0.750	**22.4**	**101**	**124**	**7,180**
HA-5	0-"6"	05/04/2020	<0.000714	**0.00313 J**	<0.00116	<0.00128	**0.006284 J**	**1.15**	**9,610**	**20,400**	**30,011**	**972**
	2'	05/04/2020	<0.000819	**0.00200 J**	<0.00133	<0.00147	**0.005619 J**	<0.740	**2,310 F2**	**3,810**	**6,121 F2**	**2,630**
	4'	05/04/2020	<0.000711	**0.00308 J**	<0.00115	<0.00127	**0.006211 J**	<0.633	**3,540**	**6,900**	**10,441**	**907**
	5'	05/04/2020	<0.000826	<0.00181	<0.00134	<0.00148	**0.005456 J**	<0.749	**119**	**221**	**341**	**488**
HA-6	0-"6"	05/04/2020	**0.000731 J**	**0.016**	<0.00114	**0.00269 J**	**0.020561 J**	**2.83 B**	**99.5**	**489**	**591 B**	**52**
HA-7	3'	05/04/2020	<0.000599	**0.00448 J**	<0.000970	<0.00107	**0.007119 J**	**2.39 B**	**153**	**719**	**874 B**	**6,920**
HA-8	3'	05/04/2020	<0.000681	**0.00917**	<0.00110	**0.00213 J**	**0.013081 J**	**1.25**	**34.8**	**270**	**306**	**10,900**
HA-9	0-"6"	05/04/2020	<0.000779	**0.00486 J**	<0.00126	<0.00140	**0.008299 J**	**14.1 B**	**9,700**	**19,500**	**29,214 B**	**375**
	2'	05/04/2020	<0.000785	**0.00541 J**	<0.00127	**0.00219 J**	**0.009655 J**	**164**	**6,700**	**8,690**	**15,554**	**342**
	4'	05/04/2020	<0.000784	**0.00335 J**	<0.00127	<0.00141	**0.006814 J**	**5.26 B**	**200**	**442**	**647 B**	**332 J**
	5'	05/04/2020	<0.000751	**0.00403 J**	<0.00122	<0.00135	**0.007351 J**	**1.57**	**441**	**1,340**	**1,783**	**1,150**
HA-10	0-"6"	05/05/2020	**0.00296 J**	**0.0143**	<0.00115	**0.00335 J**	**0.02176 J**	**52**	**13,500**	**20,400**	**33,952**	**32 J**
	2'	05/05/2020	**2.23**	**21.5**	**25**	**121**	**169.73**	**2,770**	**6,460**	**6,550**	**15,780**	**197**
	4'	05/05/2020	**5.84**	**50.5**	**46.2**	**204**	**306.54**	**2,940 B**	**5,830**	**4,170**	**12,940 B**	**411**
HA-11	0-"6"	05/05/2020	<0.000743	**0.0119**	**0.00527 J**	**0.0254**	**0.043313 J**	**212 B**	**15,900**	**27,500**	**43,612 B**	**1,360**
	2'	05/05/2020	<0.000809	**0.00342 J**	<0.00131	<0.00145	**0.006989 J**	**1.55 B**	**121**	**397**	**520 B**	**144**
	4'	05/05/2020	<0.000670	**0.00232 J**	<0.00108	<0.00120	**0.00527 J**	**1.45 B**	**16.5**	**141**	**159 B**	**198 F1**
	5'	05/05/2020	<0.000771 *3	**0.00411 J *3**	<0.00125 *3	<0.00138 *3	**0.007511 J**	**1.03 J B**	**67.5**	**389**	**458 JB**	**996**
HA-12	0-"6"	05/05/2020	**0.00124 J**	**0.00233 J**	**0.167**	**0.206**	**0.37657 J**	**217 B**	**6,560**	**6,500**	**13,277 B**	**651**
	2'	05/05/2020	<0.000705	**0.0117**	**0.0274**	**0.0735**	**0.113305 J**	**197 B**	**2,120**	**2,260**	**4,577 B**	**259**
	3'	05/05/2020	<0.000785	**0.0142**	**0.00864**	**0.0247**	**0.048325 J**	**11.4 B**	**264 F1**	**500**	**775 B F1**	**330**
HA-13	0-"6"	05/05/2020	<0.000753	**0.0122**	**0.0272**	**0.292**	**0.332153 J**	**368 B**	**7,030**	**7,060**	**14,458 B**	**3,360**
	2'	05/05/2020	**0.447 J**	**3.66**	**20**	**86.3**	**110.407 J**	**2,680 B**	**13,200**	**10,700**	**26,580 B**	**899**
	3'	05/05/2020	**0.399 J**	**1.89**	**7.61**	**104**	**113.899 J**	**1,850 B**	**12,000**	**9,740**	**23,590 B**	**475**
HA-14	0-"6"	05/05/2020	**0.00428 J**	**0.00490 J *3**	**0.128 *3**	**0.0458 *3**	**0.18298 J**	**170 B**	**9,140**	**13,500**	**22,810 B**	**378**
	2'	05/05/2020	**0.00204 J**	**0.00598**	<0.00117	**0.00193 J**	**0.01112 J**	**1.36 B**	**748**	**2,210**	**2,959 B**	**1,310**
	3'	05/05/2020	<0.000730	**0.0105**	<0.00118	**0.00332 J**	**0.01573 J**	**1.34 B**	**1,050**	**2,430**	**3,481 B**	**1,380**
HA-15	0-"6"	05/05/2020	**0.000821 J**	**0.0201**	<0.00111	**0.00253 J**	**0.024561 J**	**17.1 B**	**9,540**	**14,500**	**24,057 B**	**3,880**
	2'	05/05/2020	<0.000711	**0.0228**	**0.0943**	**0.274**	**0.391811**	**295 B**	**6,510**	**9,620**	**16,425 B**	**2,650**

Legend:
Any flags reported are indicated in **bold**
'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
NMAC : New Mexico Administration Code
BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
*3 : ISTD response or retention time outside acceptable limits
F1 : MS and/or MSD recovery exceeds control limits
F2 : MS/MSD RPD exceeds control limits
B : Compound was found in the blank and sample
Analytes exceeding NMAC Standards are indicated in yellow
mg/kg: Milligram per Kilogram
" ' " : Indicates one foot
" : Indicated inches
bgs: below ground surface
HA: Hand Auger Sample Point Location

Notes:
1. Chloride analyzed by USEPA Method 300.0
2. Gasoline Range Organics [C6-C10] analyzed by USEPA Method 8015B
3. Diesel Range Organics [C10-C28] and Oil Range Organics [C28-36] analyzed by USEPA Method 8015D
3. BTEX analyzed by EPA Method 8260B
4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures



Legend

Site Boundary

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.284872, -104.061228
3. Source: United States Geological Survey 7.5 Minute Quadrangle Map

0 1,000 2,000 4,000 Feet

N

Chevron Environmental Management Company
South Culebra Bluff Unit 23-14
Sec. 23, T23S, R28E, Eddy County, New Mexico

SITE LOCATION MAP

ARCADIS

FIGURE 1

Document Path:\\arcadis-us\officedata\Houston-TX\ENV\Chevron Texaco TX8\HES Transfer\04 Field Investigations\2019\6 - Annual GWMR\Cooper Jal\GIS - Cooper Jal\Figure 1 - Site Location Map 01.08.2020

2

Legend

● Soil Sample Location

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.284872, -104.061228

N

0 37.5 75 150 Feet

Chevron Environmental Management Company
South Culebra Bluff Unit 23-14
Sec. 23, T23S, R28E, Eddy County, New Mexico

SOIL SAMPLE LOCATIONS

ARCADIS

ATTACHMENT 2

Document Path: \\arcadis-us\officedata\Houston-TX\ENV\ChevronTexaco TX8\HES Transfer\01 Project Management\SCB 23 #4\GIS - SCB 23-4

HA-15		
SAMPLE DATE	MAY 5, 2020	
DEPTH (ft)	0-"6"	2'
TOTAL BTEX	**0.024561 J**	**0.391811**
TOTAL TPH	**24,057 B**	**16,425 B**
CHLORIDE	**3,880**	**2,650**

HA-1	
SAMPLE DATE	MAY 4, 2020
DEPTH (ft)	0-"6"
TOTAL BTEX	**0.005199 J**
TOTAL TPH	**3,901**
CHLORIDE	**9,230**

HA-12			
SAMPLE DATE	MAY 5, 2020		
DEPTH (ft)	0-"6"	2'	3'
TOTAL BTEX	**0.37657 J**	**0.113305 J**	**0.048325 J**
TOTAL TPH	**13,277 B**	**4,577 B**	**775 B F1**
CHLORIDE	**651**	**259**	**330**

HA-13			
SAMPLE DATE	MAY 5, 2020		
DEPTH (ft)	0-"6"	2'	3'
TOTAL BTEX	**0.332153 J**	**110.407 J**	**113.899 J**
TOTAL TPH	**14,458 B**	**26,580 B**	**23,590 B**
CHLORIDE	**3,360**	**899**	**475**

HA-14			
SAMPLE DATE	MAY 5, 2020		
DEPTH (ft)	0-"6"	2'	3'
TOTAL BTEX	**0.18298 J**	**0.01112 J**	**0.01573 J**
TOTAL TPH	**22,810 B**	**2,959 B**	**3,481 B**
CHLORIDE	**378**	**1,310**	**1,380**

HA-11				
SAMPLE DATE	MAY 5, 2020			
DEPTH (ft)	0-"6"	2'	4'	5'
TOTAL BTEX	**0.043313 J**	**0.006989 J**	**0.00527 J**	**0.007511 J**
TOTAL TPH	**43,612 B**	**520 B**	**159 B**	**458 JB**
CHLORIDE	**1,360**	**144**	**198 F1**	**996**

HA-8	
SAMPLE DATE	MAY 4, 2020
DEPTH (ft)	3'
TOTAL BTEX	**0.013081 J**
TOTAL TPH	**306**
CHLORIDE	**10,900**

HA-7	
SAMPLE DATE	MAY 4, 2020
DEPTH (ft)	3'
TOTAL BTEX	**0.007119 J**
TOTAL TPH	**874 B**
CHLORIDE	**6,920**

HA-6	
SAMPLE DATE	MAY 4, 2020
DEPTH (ft)	0-"6"
TOTAL BTEX	**0.020561 J**
TOTAL TPH	**591 B**
CHLORIDE	**642**

HA-4	
SAMPLE DATE	MAY 4, 2020
DEPTH (ft)	0-"6"
TOTAL BTEX	**0.007691 J**
TOTAL TPH	**124**
CHLORIDE	**7,180**

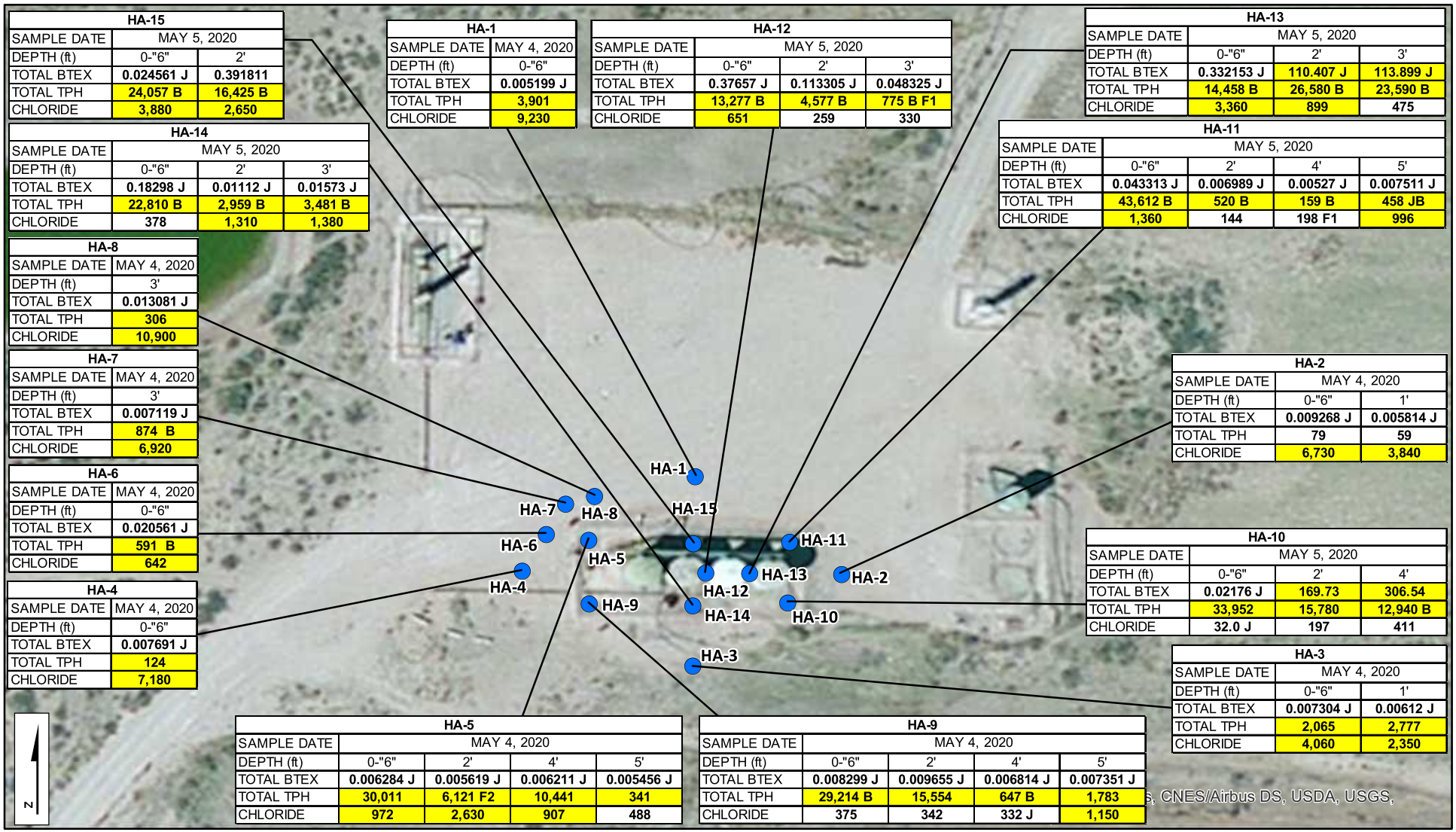
HA-2		
SAMPLE DATE	MAY 4, 2020	
DEPTH (ft)	0-"6"	1'
TOTAL BTEX	**0.009268 J**	**0.005814 J**
TOTAL TPH	**79**	**59**
CHLORIDE	**6,730**	**3,840**

HA-10			
SAMPLE DATE	MAY 5, 2020		
DEPTH (ft)	0-"6"	2'	4'
TOTAL BTEX	**0.02176 J**	**169.73**	**306.54**
TOTAL TPH	**33,952**	**15,780**	**12,940 B**
CHLORIDE	**32.0 J**	**197**	**411**

HA-3		
SAMPLE DATE	MAY 4, 2020	
DEPTH (ft)	0-"6"	1'
TOTAL BTEX	**0.007304 J**	**0.00612 J**
TOTAL TPH	**2,065**	**2,777**
CHLORIDE	**4,060**	**2,350**

HA-5				
SAMPLE DATE	MAY 4, 2020			
DEPTH (ft)	0-"6"	2'	4'	5'
TOTAL BTEX	**0.006284 J**	**0.005619 J**	**0.006211 J**	**0.005456 J**
TOTAL TPH	**30,011**	**6,121 F2**	**10,441**	**341**
CHLORIDE	**972**	**2,630**	**907**	**488**

HA-9				
SAMPLE DATE	MAY 4, 2020			
DEPTH (ft)	0-"6"	2'	4'	5'
TOTAL BTEX	**0.008299 J**	**0.009655 J**	**0.006814 J**	**0.007351 J**
TOTAL TPH	**29,214 B**	**15,554**	**647 B**	**1,783**
CHLORIDE	**375**	**342**	**332 J**	**1,150**



Legend

Soil Sample Location

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.284872, -104.061228

0 25 50 100 Feet

Notes:
1. Any flags reported are indicated in **bold**.
2. < Indicates the analyte was not detected at or above the Method Detection Limit (MDL).
3. NMAC Indicates New Mexico Administration Code.
4. BTEX Indicates Benzene, Toluene, Ethylbenzene, and Total Xylenes.
5. J Indicates Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
6. F1 Indicates MS and/or MSD recovery exceeds control limits.
7. F2 Indicates MS/MSD RPD exceeds control limits.
8. B Indicates Compound was found in the blank and sample.
9. Analytes exceeding NMAC Standards are indicated in yellow.
10. mg/kg = Milligram per Kilogram .
11. " ' " = Indicates one foot.
12. " = Indicates inches.
13. bgs = Below ground surface.
14. HA = Hand Auger Sample Point Location.
15. Chloride analyzed by USEPA Method 300.0.
16. Gasoline Range Organics [C6-C10] analyzed by USEPA Method 8015D.
17. Diesel Range Organics [C10-C28] and Oil Range Organics [C28-36] analyzed by USEPA Method 8015D.
18. Total TPH is sum of result value of Gasoline Range Organics [C6-C10], Diesel Range Organics [C10-C28] and Oil Range Organics [C28-36]
19. BTEX analyzed by EPA Method 8260B.
20. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2).

Chevron Environmental Management Company
South Culebra Bluff Unit 23-14
Sec. 23, T23S, R28E, Eddy County, New Mexico

SOIL ANALYTICAL RESULTS MAP

ARCADIS

ATTACHMENT 3

2/21

Appendix A

2RP-4875 Initial C-141 Form

RECEIVED

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

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

JUL 23 2018

DISTRICT II-ARTESIA O.C.D.

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1821142197 371115 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: Rockcliff Operating New Mexico LLC	Contact: John Turner
Address: 1301 McKinney St, Suite 1300, Houston, TX 77010	Telephone No.: 903-643-3791
Facility Name : South Culebra Bluff Unit 23 #14	Facility Type: Oil & Gas Production CTB

Surface Owner: John Draper Brantley, Jr.	Mineral Owner: Private	API No. 30-015-33607

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	23	23S	28E	990	South	1650	West	Eddy

Latitude 32.284873 **Longitude** -104.061240 NAD 83

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: ~132 bbls	Volume Recovered: ~60 bbls + 20 bbls of oil and rainwater mixture
Source of Release: Oil Storage Tank	Date and Hour of Occurrence: 7/14/18, HR unknown	Date and Hour of Discovery 7/14/18, 0900hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Gilbert Cordero	
By Whom? John Turner	Date and Hour: 7/14/18; 1436hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Lease operator was performing normal rounds when he got to the SCB 23-14, he saw the oil tank over spilling and noticed the circulating pump was on hand causing the tank to overfill. He turned the circulating pump to off and turned off wells going to the battery to stop overfill.

Describe Area Affected and Cleanup Action Taken.*
The release was contained within the earthen firewall. Vacuum truck removed approximately 60 bbls of oil on 7/14/18 and approximately 20 bbls of oil and rainwater mixture on 7/15/18. Souder, Miller and Associates was contacted to perform delineation, cleanup and remediation. Delineation samples were collected on 7/16/18.

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: John Turner

Printed Name: John Turner

Title: Field Sr. Environmental Specialist

E-mail Address: jturner@rockcliffenergy.com

Date: 7/23/18 Phone: 903-475-1865

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 7/24/18 Expiration Date: NA

Conditions of Approval: See attached

Attached: AP-4875

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/23/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4875 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/23/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: John Turner <John.Turner@Rockcliffenergy.com>
Sent: Monday, July 23, 2018 1:49 PM
To: Bratcher, Mike, EMNRD
Cc: Mike Martin; Nick Koch; Jamie Robinson; Ed Abels; Chris Simon
Subject: South Culebra Bluff Unit 23 #14 C-141 Release Notification; API#30-015-33607 - Rockcliff Energy Operating New Mexico LLC
Attachments: SCB_23_14_C-141_Submittal_7-23-18.pdf

Please find attached the initial Form C-141, Release Notification and Corrective Action, for the release that occurred at Rockcliff Operating New Mexico LLC's SCB 23 #14 Facility in Eddy County on July 14, 2018.

If you have any questions or concerns please do not hesitate to contact me.

John Turner
Rockcliff Energy Operating LLC
Sr. Environmental Specialist
342 Johnny Clark Rd
Longview, TX 75603
O: (903) 475-1865
C: (903) 261-4673
jturner@rockcliffenergy.com

Appendix B

2018 Summary of Soil Analytical Results

Attachment 1
Summary of Laboratory Results
Chevron Environmental Management Company
SCB 23-14
2RP-4875
Eddy County, New Mexico

Sample I.D. No.	Date	Depth (feet bgs)	Organic Compounds		Total Petroleum Hydrocarbons					Chloride
			BTEX	Benzene	GRO	DRO	GRO + DRO	MRO	Total TPH	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
NMOCD Closure Criteria										
			50	10			1000		100	600
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
L1	07/16/18	1	**78.55**	0.66	1500	19000	**20500**	8700	**29200**	370
	07/16/18	2	--	--	--	--	--	--	--	210
	08/03/18	4	<0.208	<0.023	<4.6	<9.2	<13.8	<46	<59.8	100
	08/03/18	6	--	--	--	--	--	--	--	300
L2	07/16/18	1	**95.2**	1.2	1200	9900	**2190**	5100	**7290**	**6,600**
	07/16/18	2	--	--	--	--	--	--	--	530
	07/16/18	3	--	--	--	--	--	--	--	290
	09/17/18	5	<0.22	<0.024	<4.9	<10	<14.9	<50	<64.9	**--**
	09/17/18	10	<0.21	<0.023	<4.7	<9.8	<14.5	<49	<63.5	--
	09/17/18	15	<0.216	<0.024	<4.8	<9.8	<14.6	<49	<63.6	--
L3	07/16/18	1	2.89	<0.023	44	5100	**5144**	2900	**8044**	**1100**
	07/16/18	2	--	--	--	--	--	--	--	**1100**
	08/03/18	5	<0.207	<0.023	<4.6	380	380	270	**650**	**2000**
	08/03/18	8	<0.208	<0.023	<4.6	42	42	<50	42	**920**
	09/17/18	10	--	--	--	--	--	--	--	**1000**
	09/17/18	12	--	--	--	--	--	--	--	--
	09/17/18	14	--	--	--	--	--	--	--	**610**
	09/17/18	16	--	--	--	--	--	--	--	--
	09/17/18	18	--	--	--	--	--	--	--	--
	09/17/18	23	--	--	--	--	--	--	--	440
	09/17/18	28	--	--	--	--	--	--	--	460
	09/17/18	30	--	--	--	--	--	--	--	470
L4	07/16/18	1	**69.95**	0.25	960	4700	**5660**	2200	**7860**	84
	08/03/18	2	--	--	--	--	--	--	--	62
	08/03/18	4	<0.216	<0.024	<4.8	<9.4	<14.2	<47	<61.2	35
	08/03/18	6	<0.224	<0.025	<5.0	<8.8	<13.8	<47	<57.8	<30

Appendix C

Historical Soil Sample Locations

Legend

- Historical Soil Sample Location

Notes:
1. Datum: D_WGS_1984
2. Site Location: 32.284872, -104.061228

N

0 37.5 75 150 Feet

Chevron Environmental Management Company
South Culebra Bluff Unit 23-4
Sec. 23, T23S, R28E, Eddy County, New Mexico

HISTORICAL SOIL SAMPLE LOCATIONS MAP

ARCADIS

ATTACHMENT 2

Document Path: \\arcadis-us\officedata\Houston-TX\ENV\ChevronTexaco TX8\HES Transfer\01 Project Management\... \SCB 23 #4\GIS - SCB 23-4

Appendix D

Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-204767-1
Client Project/Site: Chevron SCB 23-14

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

Attn: Sarah Johnson

Authorized for release by:
6/1/2020 10:24:29 AM
Tiffany Fleming, Project Management Assistant I
(361)289-2673
tiffany.fleming@testamericainc.com

Designee for

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

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Laboratory Job ID: 600-204767-1

Table of Contents

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (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
5030B	Purge and Trap for Methanol Extractions	SW846	TAL HOU
5030B	Purge and Trap for Solids	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU

Protocol References:

ASTM = ASTM International

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

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

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204767-1	HA-1-0-"6"	Solid	05/04/20 10:38	05/06/20 10:45	
600-204767-2	HA-2-0-"6"	Solid	05/04/20 10:56	05/06/20 10:45	
600-204767-3	HA-2-1'	Solid	05/04/20 10:59	05/06/20 10:45	
600-204767-4	HA-3-0-"6"	Solid	05/04/20 11:14	05/06/20 10:45	
600-204767-5	HA-3-1'	Solid	05/04/20 11:16	05/06/20 10:45	
600-204767-6	HA-4-0-"6"	Solid	05/04/20 11:37	05/06/20 10:45	
600-204767-7	HA-5-0-"6"	Solid	05/04/20 11:58	05/06/20 10:45	
600-204767-8	HA-5-2'	Solid	05/04/20 12:06	05/06/20 10:45	
600-204767-9	HA-5-4'	Solid	05/04/20 12:10	05/06/20 10:45	
600-204767-10	HA-5-5'	Solid	05/04/20 12:19	05/06/20 10:45	
600-204767-11	HA-6-0-"6"	Solid	05/04/20 12:37	05/06/20 10:45	
600-204767-12	HA-7-0-"3"	Solid	05/04/20 12:40	05/06/20 10:45	
600-204767-13	HA-8-0-"3"	Solid	05/04/20 12:45	05/06/20 10:45	
600-204767-14	HA-9-0-"6"	Solid	05/04/20 13:44	05/06/20 10:45	
600-204767-15	HA-9-2'	Solid	05/04/20 13:50	05/06/20 10:45	
600-204767-16	HA-9-4'	Solid	05/04/20 13:55	05/06/20 10:45	
600-204767-17	HA-9-5'	Solid	05/04/20 14:00	05/06/20 10:45	
600-204767-18	HA-10-0-"6"	Solid	05/05/20 09:42	05/06/20 10:45	
600-204767-19	HA-10-2'	Solid	05/05/20 09:53	05/06/20 10:45	
600-204767-20	HA-10-4'	Solid	05/05/20 09:59	05/06/20 10:45	
600-204767-21	HA-11-0-"6"	Solid	05/05/20 10:16	05/06/20 10:45	
600-204767-22	HA-11-2'	Solid	05/05/20 10:20	05/06/20 10:45	
600-204767-23	HA-11-4'	Solid	05/05/20 10:35	05/06/20 10:45	
600-204767-24	HA-11-5'	Solid	05/05/20 10:45	05/06/20 10:45	
600-204767-25	HA-12-0-"6"	Solid	05/05/20 11:20	05/06/20 10:45	
600-204767-26	HA-13-0-"6"	Solid	05/05/20 11:37	05/06/20 10:45	
600-204767-27	HA-13-2'	Solid	05/05/20 11:42	05/06/20 10:45	
600-204767-28	HA-13-3'	Solid	05/05/20 11:50	05/06/20 10:45	
600-204767-29	HA-12-2'	Solid	05/05/20 11:55	05/06/20 10:45	
600-204767-30	HA-12-3'	Solid	05/05/20 12:00	05/06/20 10:45	
600-204767-31	HA-14-0-"6"	Solid	05/05/20 12:10	05/06/20 10:45	
600-204767-32	HA-14-2'	Solid	05/05/20 12:20	05/06/20 10:45	
600-204767-33	HA-14-3'	Solid	05/05/20 12:26	05/06/20 10:45	
600-204767-34	HA-15-0"6"	Solid	05/05/20 12:32	05/06/20 10:45	
600-204767-35	HA-15-2'	Solid	05/05/20 12:40	05/06/20 10:45	

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-1
Date Collected: 05/04/20 10:38
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 98.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000607	U	0.00481	0.000607	mg/Kg	☼	05/07/20 11:53	05/08/20 15:23	1
Ethylbenzene	0.000982	U	0.00481	0.000982	mg/Kg	☼	05/07/20 11:53	05/08/20 15:23	1
Toluene	**0.00252**	**J**	0.00481	0.00133	mg/Kg	☼	05/07/20 11:53	05/08/20 15:23	1
Xylenes, Total	0.00109	U	0.00481	0.00109	mg/Kg	☼	05/07/20 11:53	05/08/20 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/07/20 11:53*	*05/08/20 15:23*	*1*
Dibromofluoromethane	*95*		*68 - 140*	*05/07/20 11:53*	*05/08/20 15:23*	*1*
Toluene-d8 (Surr)	*106*		*50 - 130*	*05/07/20 11:53*	*05/08/20 15:23*	*1*
4-Bromofluorobenzene	*101*		*57 - 140*	*05/07/20 11:53*	*05/08/20 15:23*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.607	U	1.04	0.607	mg/Kg	☼	05/07/20 07:02	05/07/20 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*70 - 130*	*05/07/20 07:02*	*05/07/20 09:57*	*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]	**1280**		84.4	17.4	mg/Kg	☼	05/13/20 09:15	05/14/20 09:28	10
C28-C36	**2620**		84.4	50.8	mg/Kg	☼	05/13/20 09:15	05/14/20 09:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*60 - 140*	*05/13/20 09:15*	*05/14/20 09:28*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9230**		816	109	mg/Kg	☼		05/26/20 16:44	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**2.0**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**98.0**		1.0	1.0	%			05/07/20 08:53	1

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

Lab Sample ID: 600-204767-2
Date Collected: 05/04/20 10:56
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 96.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000595	U	0.00472	0.000595	mg/Kg	☼	05/07/20 11:53	05/08/20 15:46	1
Ethylbenzene	0.000963	U	0.00472	0.000963	mg/Kg	☼	05/07/20 11:53	05/08/20 15:46	1
Toluene	**0.00664**		0.00472	0.00130	mg/Kg	☼	05/07/20 11:53	05/08/20 15:46	1
Xylenes, Total	0.00107	U	0.00472	0.00107	mg/Kg	☼	05/07/20 11:53	05/08/20 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*61 - 130*	*05/07/20 11:53*	*05/08/20 15:46*	*1*
Dibromofluoromethane	*99*		*68 - 140*	*05/07/20 11:53*	*05/08/20 15:46*	*1*
Toluene-d8 (Surr)	*110*		*50 - 130*	*05/07/20 11:53*	*05/08/20 15:46*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*	*05/07/20 11:53*	*05/08/20 15:46*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-2
Date Collected: 05/04/20 10:56
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 96.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.633	U	1.08	0.633	mg/Kg	☼	05/07/20 07:02	05/07/20 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*70 - 130*	*05/07/20 07:02*	*05/07/20 10:20*	*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]	**13.3**		8.56	1.76	mg/Kg	☼	05/13/20 09:15	05/14/20 04:32	1
C28-C36	**65.4**		8.56	5.15	mg/Kg	☼	05/13/20 09:15	05/14/20 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*60 - 140*	*05/13/20 09:15*	*05/14/20 04:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6730**		826	110	mg/Kg	☼		05/26/20 17:45	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**3.2**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**96.8**		1.0	1.0	%			05/07/20 08:53	1

Client Sample ID: HA-2-1'

Lab Sample ID: 600-204767-3
Date Collected: 05/04/20 10:59
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000674	U	0.00535	0.000674	mg/Kg	☼	05/07/20 11:53	05/08/20 16:09	1
Ethylbenzene	0.00109	U	0.00535	0.00109	mg/Kg	☼	05/07/20 11:53	05/08/20 16:09	1
Toluene	**0.00284**	**J**	0.00535	0.00148	mg/Kg	☼	05/07/20 11:53	05/08/20 16:09	1
Xylenes, Total	0.00121	U	0.00535	0.00121	mg/Kg	☼	05/07/20 11:53	05/08/20 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/07/20 11:53*	*05/08/20 16:09*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/07/20 11:53*	*05/08/20 16:09*	*1*
Toluene-d8 (Surr)	*103*		*50 - 130*	*05/07/20 11:53*	*05/08/20 16:09*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*	*05/07/20 11:53*	*05/08/20 16:09*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.619	U	1.06	0.619	mg/Kg	☼	05/07/20 07:02	05/07/20 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*70 - 130*	*05/07/20 07:02*	*05/07/20 10:43*	*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]	**18.4**		9.12	1.88	mg/Kg	☼	05/13/20 09:15	05/14/20 05:07	1
C28-C36	**40.2**		9.12	5.50	mg/Kg	☼	05/13/20 09:15	05/14/20 05:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-2-1'
Date Collected: 05/04/20 10:59
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-3
Matrix: Solid
Percent Solids: 91.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	113		60 - 140	05/13/20 09:15	05/14/20 05:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		440	58.7	mg/Kg	☼		05/26/20 18:06	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	91.0		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-3-0-"6"
Date Collected: 05/04/20 11:14
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-4
Matrix: Solid
Percent Solids: 92.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000634	U	0.00503	0.000634	mg/Kg	☼	05/07/20 11:53	05/08/20 16:31	1
Ethylbenzene	0.00103	U	0.00503	0.00103	mg/Kg	☼	05/07/20 11:53	05/08/20 16:31	1
Toluene	0.00450	J	0.00503	0.00139	mg/Kg	☼	05/07/20 11:53	05/08/20 16:31	1
Xylenes, Total	0.00114	U	0.00503	0.00114	mg/Kg	☼	05/07/20 11:53	05/08/20 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		61 - 130	05/07/20 11:53	05/08/20 16:31	1
Dibromofluoromethane	92		68 - 140	05/07/20 11:53	05/08/20 16:31	1
Toluene-d8 (Surr)	109		50 - 130	05/07/20 11:53	05/08/20 16:31	1
4-Bromofluorobenzene	103		57 - 140	05/07/20 11:53	05/08/20 16:31	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.666	U	1.14	0.666	mg/Kg	☼	05/07/20 07:02	05/07/20 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	111		70 - 130	05/07/20 07:02	05/07/20 11:06	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]	644		45.1	9.29	mg/Kg	☼	05/13/20 09:15	05/14/20 05:41	5
C28-C36	1420		45.1	27.2	mg/Kg	☼	05/13/20 09:15	05/14/20 05:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	102		60 - 140	05/13/20 09:15	05/14/20 05:41	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4060		869	116	mg/Kg	☼		05/26/20 18:26	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	92.1		1.0	1.0	%			05/07/20 09:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-3-1'

Lab Sample ID: 600-204767-5
Date Collected: 05/04/20 11:16
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000770	U	0.00611	0.000770	mg/Kg	☼	05/07/20 11:53	05/08/20 16:54	1
Ethylbenzene	0.00125	U	0.00611	0.00125	mg/Kg	☼	05/07/20 11:53	05/08/20 16:54	1
Toluene	**0.00272**	**J**	0.00611	0.00169	mg/Kg	☼	05/07/20 11:53	05/08/20 16:54	1
Xylenes, Total	0.00138	U	0.00611	0.00138	mg/Kg	☼	05/07/20 11:53	05/08/20 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*61 - 130*	*05/07/20 11:53*	*05/08/20 16:54*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*05/07/20 11:53*	*05/08/20 16:54*	*1*
Toluene-d8 (Surr)	*106*		*50 - 130*	*05/07/20 11:53*	*05/08/20 16:54*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 11:53*	*05/08/20 16:54*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.677	U	1.15	0.677	mg/Kg	☼	05/07/20 07:02	05/07/20 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*05/07/20 07:02*	*05/07/20 11:30*	*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]	**576**		188	38.7	mg/Kg	☼	05/13/20 09:15	05/14/20 06:15	20
C28-C36	**2200**		188	113	mg/Kg	☼	05/13/20 09:15	05/14/20 06:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*60 - 140*	*05/13/20 09:15*	*05/14/20 06:15*	*20*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2350**		454	60.6	mg/Kg	☼		05/26/20 18:46	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**88.2**		1.0	1.0	%			05/07/20 08:53	1

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

Lab Sample ID: 600-204767-6
Date Collected: 05/04/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000781	U	0.00620	0.000781	mg/Kg	☼	05/07/20 11:53	05/08/20 17:17	1
Ethylbenzene	0.00126	U	0.00620	0.00126	mg/Kg	☼	05/07/20 11:53	05/08/20 17:17	1
Toluene	**0.00425**	**J**	0.00620	0.00171	mg/Kg	☼	05/07/20 11:53	05/08/20 17:17	1
Xylenes, Total	0.00140	U	0.00620	0.00140	mg/Kg	☼	05/07/20 11:53	05/08/20 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*61 - 130*	*05/07/20 11:53*	*05/08/20 17:17*	*1*
Dibromofluoromethane	*97*		*68 - 140*	*05/07/20 11:53*	*05/08/20 17:17*	*1*
Toluene-d8 (Surr)	*104*		*50 - 130*	*05/07/20 11:53*	*05/08/20 17:17*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*	*05/07/20 11:53*	*05/08/20 17:17*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-6
Date Collected: 05/04/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 84.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.750	U	1.28	0.750	mg/Kg	☼	05/07/20 07:02	05/07/20 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*70 - 130*	*05/07/20 07:02*	*05/07/20 11:53*	*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]	**22.4**		9.87	2.03	mg/Kg	☼	05/13/20 09:15	05/14/20 06:56	1
C28-C36	**101**		9.87	5.95	mg/Kg	☼	05/13/20 09:15	05/14/20 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*60 - 140*	*05/13/20 09:15*	*05/14/20 06:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7180**		952	127	mg/Kg	☼		05/26/20 19:07	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**84.0**		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-7
Date Collected: 05/04/20 11:58
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000714	U	0.00567	0.000714	mg/Kg	☼	05/07/20 11:53	05/08/20 17:39	1
Ethylbenzene	0.00116	U	0.00567	0.00116	mg/Kg	☼	05/07/20 11:53	05/08/20 17:39	1
Toluene	**0.00313**	**J**	0.00567	0.00156	mg/Kg	☼	05/07/20 11:53	05/08/20 17:39	1
Xylenes, Total	0.00128	U	0.00567	0.00128	mg/Kg	☼	05/07/20 11:53	05/08/20 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*	*05/07/20 11:53*	*05/08/20 17:39*	*1*
Dibromofluoromethane	*99*		*68 - 140*	*05/07/20 11:53*	*05/08/20 17:39*	*1*
Toluene-d8 (Surr)	*108*		*50 - 130*	*05/07/20 11:53*	*05/08/20 17:39*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*	*05/07/20 11:53*	*05/08/20 17:39*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.15**		1.11	0.650	mg/Kg	☼	05/07/20 07:02	05/07/20 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*70 - 130*	*05/07/20 07:02*	*05/07/20 12:17*	*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]	**9610**		907	187	mg/Kg	☼	05/13/20 09:15	05/14/20 08:19	100
C28-C36	**20400**		907	547	mg/Kg	☼	05/13/20 09:15	05/14/20 08:19	100

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-7
Date Collected: 05/04/20 11:58
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*0*	*X*	*60 - 140*	*05/13/20 09:15*	*05/14/20 08:19*	*100*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**972**		109	14.6	mg/Kg	☼		05/26/20 20:08	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**91.5**		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-5-2'

Lab Sample ID: 600-204767-8
Date Collected: 05/04/20 12:06
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 82.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000819	U	0.00650	0.000819	mg/Kg	☼	05/07/20 11:53	05/08/20 18:02	1
Ethylbenzene	0.00133	U	0.00650	0.00133	mg/Kg	☼	05/07/20 11:53	05/08/20 18:02	1
Toluene	**0.00200**	**J**	0.00650	0.00179	mg/Kg	☼	05/07/20 11:53	05/08/20 18:02	1
Xylenes, Total	0.00147	U	0.00650	0.00147	mg/Kg	☼	05/07/20 11:53	05/08/20 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/07/20 11:53*	*05/08/20 18:02*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/07/20 11:53*	*05/08/20 18:02*	*1*
Toluene-d8 (Surr)	*109*		*50 - 130*	*05/07/20 11:53*	*05/08/20 18:02*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*05/07/20 11:53*	*05/08/20 18:02*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.740	U	1.26	0.740	mg/Kg	☼	05/07/20 07:02	05/07/20 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*113*		*70 - 130*	*05/07/20 07:02*	*05/07/20 12:40*	*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]	**2310**	**F2**	149	30.7	mg/Kg	☼	05/18/20 08:45	05/21/20 08:28	10
C28-C36	**3810**		149	89.9	mg/Kg	☼	05/18/20 08:45	05/21/20 08:28	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*130*		*60 - 140*	*05/18/20 08:45*	*05/21/20 08:28*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2630**		485	64.7	mg/Kg	☼		05/26/20 20:28	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.5**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**82.5**		1.0	1.0	%			05/07/20 08:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-5-4'

Lab Sample ID: 600-204767-9
Date Collected: 05/04/20 12:10
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000711	U	0.00564	0.000711	mg/Kg	☼	05/07/20 11:53	05/08/20 18:24	1
Ethylbenzene	0.00115	U	0.00564	0.00115	mg/Kg	☼	05/07/20 11:53	05/08/20 18:24	1
Toluene	**0.00308**	**J**	0.00564	0.00156	mg/Kg	☼	05/07/20 11:53	05/08/20 18:24	1
Xylenes, Total	0.00127	U	0.00564	0.00127	mg/Kg	☼	05/07/20 11:53	05/08/20 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/07/20 11:53*	*05/08/20 18:24*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/07/20 11:53*	*05/08/20 18:24*	*1*
Toluene-d8 (Surr)	*110*		*50 - 130*	*05/07/20 11:53*	*05/08/20 18:24*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*05/07/20 11:53*	*05/08/20 18:24*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.633	U	1.08	0.633	mg/Kg	☼	05/07/20 07:02	05/07/20 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*05/07/20 07:02*	*05/07/20 13:03*	*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]	**3540**		290	59.6	mg/Kg	☼	05/18/20 08:45	05/21/20 10:12	20
C28-C36	**6900**		290	174	mg/Kg	☼	05/18/20 08:45	05/21/20 10:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 10:12*	*20*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**907**		469	62.6	mg/Kg	☼		05/26/20 20:49	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.8**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**85.2**		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-5-5'

Lab Sample ID: 600-204767-10
Date Collected: 05/04/20 12:19
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000826	U	0.00656	0.000826	mg/Kg	☼	05/07/20 11:53	05/08/20 18:47	1
Ethylbenzene	0.00134	U	0.00656	0.00134	mg/Kg	☼	05/07/20 11:53	05/08/20 18:47	1
Toluene	0.00181	U	0.00656	0.00181	mg/Kg	☼	05/07/20 11:53	05/08/20 18:47	1
Xylenes, Total	0.00148	U	0.00656	0.00148	mg/Kg	☼	05/07/20 11:53	05/08/20 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*	*05/07/20 11:53*	*05/08/20 18:47*	*1*
Dibromofluoromethane	*100*		*68 - 140*	*05/07/20 11:53*	*05/08/20 18:47*	*1*
Toluene-d8 (Surr)	*107*		*50 - 130*	*05/07/20 11:53*	*05/08/20 18:47*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*	*05/07/20 11:53*	*05/08/20 18:47*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-5-5'

Lab Sample ID: 600-204767-10
Date Collected: 05/04/20 12:19
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.749	U	1.28	0.749	mg/Kg	☼	05/07/20 07:02	05/07/20 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*05/07/20 07:02*	*05/07/20 13:27*	*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]	**119**		14.8	3.04	mg/Kg	☼	05/18/20 08:45	05/21/20 16:26	1
C28-C36	**221**		14.8	8.89	mg/Kg	☼	05/18/20 08:45	05/21/20 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*128*		*60 - 140*	*05/18/20 08:45*	*05/21/20 16:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**488**		477	63.7	mg/Kg	☼		05/26/20 21:09	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.2**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**83.8**		1.0	1.0	%			05/07/20 08:53	1

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

Lab Sample ID: 600-204767-11
Date Collected: 05/04/20 12:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 85.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000731**	**J**	0.00558	0.000703	mg/Kg	☼	05/07/20 11:53	05/11/20 16:32	1
Ethylbenzene	0.00114	U	0.00558	0.00114	mg/Kg	☼	05/07/20 11:53	05/11/20 16:32	1
Toluene	**0.0160**		0.00558	0.00154	mg/Kg	☼	05/07/20 11:53	05/11/20 16:32	1
Xylenes, Total	**0.00269**	**J**	0.00558	0.00126	mg/Kg	☼	05/07/20 11:53	05/11/20 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*61 - 130*	*05/07/20 11:53*	*05/11/20 16:32*	*1*
Dibromofluoromethane	*96*		*68 - 140*	*05/07/20 11:53*	*05/11/20 16:32*	*1*
Toluene-d8 (Surr)	*89*		*50 - 130*	*05/07/20 11:53*	*05/11/20 16:32*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 11:53*	*05/11/20 16:32*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**2.83**	**B**	1.21	0.708	mg/Kg	☼	05/07/20 07:02	05/08/20 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*70 - 130*	*05/07/20 07:02*	*05/08/20 17:51*	*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]	**99.5**		14.6	3.00	mg/Kg	☼	05/18/20 08:45	05/20/20 19:59	1
C28-C36	**489**		14.6	8.77	mg/Kg	☼	05/18/20 08:45	05/20/20 19:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-11
Date Collected: 05/04/20 12:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 85.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		60 - 140	05/18/20 08:45	05/20/20 19:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	642		93.9	12.5	mg/Kg	☼		05/26/20 21:30	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.8		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	85.2		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-7-0-"3"

Lab Sample ID: 600-204767-12
Date Collected: 05/04/20 12:40
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 98.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000599	U	0.00476	0.000599	mg/Kg	☼	05/07/20 11:53	05/11/20 16:56	1
Ethylbenzene	0.000970	U	0.00476	0.000970	mg/Kg	☼	05/07/20 11:53	05/11/20 16:56	1
Toluene	0.00448	J	0.00476	0.00131	mg/Kg	☼	05/07/20 11:53	05/11/20 16:56	1
Xylenes, Total	0.00107	U	0.00476	0.00107	mg/Kg	☼	05/07/20 11:53	05/11/20 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 130	05/07/20 11:53	05/11/20 16:56	1
Dibromofluoromethane	90		68 - 140	05/07/20 11:53	05/11/20 16:56	1
Toluene-d8 (Surr)	96		50 - 130	05/07/20 11:53	05/11/20 16:56	1
4-Bromofluorobenzene	110		57 - 140	05/07/20 11:53	05/11/20 16:56	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2.39	B	1.02	0.597	mg/Kg	☼	05/07/20 07:02	05/08/20 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		70 - 130	05/07/20 07:02	05/08/20 18:16	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]	153		25.0	5.15	mg/Kg	☼	05/18/20 08:45	05/21/20 10:47	2
C28-C36	719		25.0	15.1	mg/Kg	☼	05/18/20 08:45	05/21/20 10:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		60 - 140	05/18/20 08:45	05/21/20 10:47	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6920		405	54.0	mg/Kg	☼		05/26/20 22:31	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	98.8		1.0	1.0	%			05/07/20 09:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-8-0-"3"

Lab Sample ID: 600-204767-13
Date Collected: 05/04/20 12:45
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 99.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000681	U	0.00540	0.000681	mg/Kg	☼	05/07/20 11:53	05/11/20 17:20	1
Ethylbenzene	0.00110	U	0.00540	0.00110	mg/Kg	☼	05/07/20 11:53	05/11/20 17:20	1
Toluene	**0.00917**		0.00540	0.00149	mg/Kg	☼	05/07/20 11:53	05/11/20 17:20	1
Xylenes, Total	**0.00213**	**J**	0.00540	0.00122	mg/Kg	☼	05/07/20 11:53	05/11/20 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*61 - 130*	*05/07/20 11:53*	*05/11/20 17:20*	*1*
Dibromofluoromethane	*91*		*68 - 140*	*05/07/20 11:53*	*05/11/20 17:20*	*1*
Toluene-d8 (Surr)	*97*		*50 - 130*	*05/07/20 11:53*	*05/11/20 17:20*	*1*
4-Bromofluorobenzene	*125*		*57 - 140*	*05/07/20 11:53*	*05/11/20 17:20*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.25**		0.948	0.556	mg/Kg	☼	05/07/20 07:02	05/09/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*70 - 130*	*05/07/20 07:02*	*05/09/20 17:36*	*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]	**34.8**		12.6	2.59	mg/Kg	☼	05/18/20 08:45	05/20/20 21:08	1
C28-C36	**270**		12.6	7.57	mg/Kg	☼	05/18/20 08:45	05/20/20 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*60 - 140*	*05/18/20 08:45*	*05/20/20 21:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10900**		808	108	mg/Kg	☼		05/26/20 22:51	200

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**1**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**99.0**		1.0	1.0	%			05/07/20 08:53	1

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

Lab Sample ID: 600-204767-14
Date Collected: 05/04/20 13:44
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000779	U	0.00618	0.000779	mg/Kg	☼	05/07/20 11:53	05/11/20 17:44	1
Ethylbenzene	0.00126	U	0.00618	0.00126	mg/Kg	☼	05/07/20 11:53	05/11/20 17:44	1
Toluene	**0.00486**	**J**	0.00618	0.00171	mg/Kg	☼	05/07/20 11:53	05/11/20 17:44	1
Xylenes, Total	0.00140	U	0.00618	0.00140	mg/Kg	☼	05/07/20 11:53	05/11/20 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*61 - 130*	*05/07/20 11:53*	*05/11/20 17:44*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*05/07/20 11:53*	*05/11/20 17:44*	*1*
Toluene-d8 (Surr)	*91*		*50 - 130*	*05/07/20 11:53*	*05/11/20 17:44*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 11:53*	*05/11/20 17:44*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-14
Date Collected: 05/04/20 13:44
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	14.1	B	1.18	0.690	mg/Kg	☼	05/07/20 07:02	05/08/20 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*70 - 130*	*05/07/20 07:02*	*05/08/20 17:02*	*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]	9700		708	146	mg/Kg	☼	05/18/20 08:45	05/21/20 11:21	50
C28-C36	19500		708	427	mg/Kg	☼	05/18/20 08:45	05/21/20 11:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 11:21*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	375		22.8	3.04	mg/Kg	☼		05/26/20 23:12	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.1		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	87.9		1.0	1.0	%			05/07/20 08:53	1

Client Sample ID: HA-9-2'

Lab Sample ID: 600-204767-15
Date Collected: 05/04/20 13:50
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 82.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000785	U	0.00623	0.000785	mg/Kg	☼	05/07/20 11:53	05/11/20 18:08	1
Ethylbenzene	0.00127	U	0.00623	0.00127	mg/Kg	☼	05/07/20 11:53	05/11/20 18:08	1
Toluene	0.00541	J	0.00623	0.00172	mg/Kg	☼	05/07/20 11:53	05/11/20 18:08	1
Xylenes, Total	0.00219	J	0.00623	0.00141	mg/Kg	☼	05/07/20 11:53	05/11/20 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*05/07/20 11:53*	*05/11/20 18:08*	*1*
Dibromofluoromethane	*90*		*68 - 140*	*05/07/20 11:53*	*05/11/20 18:08*	*1*
Toluene-d8 (Surr)	*96*		*50 - 130*	*05/07/20 11:53*	*05/11/20 18:08*	*1*
4-Bromofluorobenzene	*111*		*57 - 140*	*05/07/20 11:53*	*05/11/20 18:08*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	164		125	73.1	mg/Kg	☼	05/07/20 07:02	05/09/20 18:01	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*168*	*X*	*70 - 130*	*05/07/20 07:02*	*05/09/20 18:01*	*100*

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]	6700		379	78.1	mg/Kg	☼	05/18/20 08:45	05/21/20 11:56	25
C28-C36	8690		379	228	mg/Kg	☼	05/18/20 08:45	05/21/20 11:56	25

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-9-2'
Date Collected: 05/04/20 13:50
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-15
Matrix: Solid
Percent Solids: 82.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 11:56*	*25*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**342**		24.4	3.25	mg/Kg	☼		05/27/20 00:13	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.9**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**82.1**		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-9-4'
Date Collected: 05/04/20 13:55
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-16
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000784	U	0.00623	0.000784	mg/Kg	☼	05/07/20 11:53	05/11/20 18:32	1
Ethylbenzene	0.00127	U	0.00623	0.00127	mg/Kg	☼	05/07/20 11:53	05/11/20 18:32	1
Toluene	**0.00335**	**J**	0.00623	0.00172	mg/Kg	☼	05/07/20 11:53	05/11/20 18:32	1
Xylenes, Total	0.00141	U	0.00623	0.00141	mg/Kg	☼	05/07/20 11:53	05/11/20 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*61 - 130*	*05/07/20 11:53*	*05/11/20 18:32*	*1*
Dibromofluoromethane	*92*		*68 - 140*	*05/07/20 11:53*	*05/11/20 18:32*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*05/07/20 11:53*	*05/11/20 18:32*	*1*
4-Bromofluorobenzene	*109*		*57 - 140*	*05/07/20 11:53*	*05/11/20 18:32*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**5.26**	**B**	1.20	0.701	mg/Kg	☼	05/07/20 07:02	05/08/20 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*05/07/20 07:02*	*05/08/20 17:27*	*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]	**200**		14.6	3.02	mg/Kg	☼	05/18/20 08:45	05/20/20 23:26	1
C28-C36	**442**		14.6	8.82	mg/Kg	☼	05/18/20 08:45	05/20/20 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*125*		*60 - 140*	*05/18/20 08:45*	*05/20/20 23:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**332**	**J**	470	62.8	mg/Kg	☼		05/27/20 00:33	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**85.1**		1.0	1.0	%			05/07/20 08:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-9-5'

Lab Sample ID: 600-204767-17
Date Collected: 05/04/20 14:00
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 84.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000751	U	0.00596	0.000751	mg/Kg	☼	05/07/20 11:53	05/11/20 18:56	1
Ethylbenzene	0.00122	U	0.00596	0.00122	mg/Kg	☼	05/07/20 11:53	05/11/20 18:56	1
Toluene	**0.00403**	**J**	0.00596	0.00165	mg/Kg	☼	05/07/20 11:53	05/11/20 18:56	1
Xylenes, Total	0.00135	U	0.00596	0.00135	mg/Kg	☼	05/07/20 11:53	05/11/20 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*61 - 130*	*05/07/20 11:53*	*05/11/20 18:56*	*1*
Dibromofluoromethane	*84*		*68 - 140*	*05/07/20 11:53*	*05/11/20 18:56*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*	*05/07/20 11:53*	*05/11/20 18:56*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 11:53*	*05/11/20 18:56*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.57**		1.12	0.657	mg/Kg	☼	05/07/20 11:06	05/09/20 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*70 - 130*	*05/07/20 11:06*	*05/09/20 18:25*	*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]	**441**		73.8	15.2	mg/Kg	☼	05/18/20 08:45	05/21/20 12:31	5
C28-C36	**1340**		73.8	44.4	mg/Kg	☼	05/18/20 08:45	05/21/20 12:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*147*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 12:31*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		237	31.7	mg/Kg	☼		05/27/20 00:54	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.8**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**84.2**		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-18
Date Collected: 05/05/20 09:42
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 92.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00296**	**J**	0.00565	0.000711	mg/Kg	☼	05/07/20 11:53	05/11/20 19:20	1
Ethylbenzene	0.00115	U	0.00565	0.00115	mg/Kg	☼	05/07/20 11:53	05/11/20 19:20	1
Toluene	**0.0143**		0.00565	0.00156	mg/Kg	☼	05/07/20 11:53	05/11/20 19:20	1
Xylenes, Total	**0.00335**	**J**	0.00565	0.00128	mg/Kg	☼	05/07/20 11:53	05/11/20 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 130*	*05/07/20 11:53*	*05/11/20 19:20*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*05/07/20 11:53*	*05/11/20 19:20*	*1*
Toluene-d8 (Surr)	*96*		*50 - 130*	*05/07/20 11:53*	*05/11/20 19:20*	*1*
4-Bromofluorobenzene	*98*		*57 - 140*	*05/07/20 11:53*	*05/11/20 19:20*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-18
Date Collected: 05/05/20 09:42
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 92.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	52.0		10.2	5.95	mg/Kg	☼	05/07/20 11:06	05/09/20 18:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*70 - 130*	*05/07/20 11:06*	*05/09/20 18:49*	*10*

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]	13500		673	139	mg/Kg	☼	05/18/20 08:45	05/21/20 13:06	50
C28-C36	20400		673	405	mg/Kg	☼	05/18/20 08:45	05/21/20 13:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 13:06*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.0	J	43.4	5.79	mg/Kg	☼		05/27/20 01:14	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	92.2		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-10-2'

Lab Sample ID: 600-204767-19
Date Collected: 05/05/20 09:53
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 80.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.23		0.777	0.0979	mg/Kg	☼	05/14/20 11:00	05/14/20 16:48	1
Ethylbenzene	25.0		0.777	0.158	mg/Kg	☼	05/14/20 11:00	05/14/20 16:48	1
Toluene	21.5		0.777	0.214	mg/Kg	☼	05/14/20 11:00	05/14/20 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*66*		*61 - 130*	*05/14/20 11:00*	*05/14/20 16:48*	*1*
Dibromofluoromethane	*63*	*X*	*68 - 140*	*05/14/20 11:00*	*05/14/20 16:48*	*1*
Toluene-d8 (Surr)	*80*		*50 - 130*	*05/14/20 11:00*	*05/14/20 16:48*	*1*
4-Bromofluorobenzene	*77*		*57 - 140*	*05/14/20 11:00*	*05/14/20 16:48*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	121		7.77	1.76	mg/Kg	☼	05/14/20 11:00	05/15/20 16:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*64*		*61 - 130*	*05/14/20 11:00*	*05/15/20 16:38*	*10*
Dibromofluoromethane	*64*	*X*	*68 - 140*	*05/14/20 11:00*	*05/15/20 16:38*	*10*
Toluene-d8 (Surr)	*76*		*50 - 130*	*05/14/20 11:00*	*05/15/20 16:38*	*10*
4-Bromofluorobenzene	*112*		*57 - 140*	*05/14/20 11:00*	*05/15/20 16:38*	*10*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2770		636	373	mg/Kg	☼	05/07/20 11:06	05/09/20 19:13	500

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-10-2'

Lab Sample ID: 600-204767-19
Date Collected: 05/05/20 09:53
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 80.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	214	X	70 - 130	05/07/20 11:06	05/09/20 19:13	500

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]	6460		305	62.8	mg/Kg	☼	05/18/20 08:45	05/21/20 13:41	20
C28-C36	6550		305	184	mg/Kg	☼	05/18/20 08:45	05/21/20 13:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		60 - 140	05/18/20 08:45	05/21/20 13:41	20

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		9.94	1.33	mg/Kg	☼		05/27/20 01:35	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.5		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	80.5		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-10-4'

Lab Sample ID: 600-204767-20
Date Collected: 05/05/20 09:59
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 79.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5.84		0.782	0.0985	mg/Kg	☼	05/14/20 11:00	05/14/20 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	69		61 - 130	05/14/20 11:00	05/14/20 17:12	1
Dibromofluoromethane	67	X	68 - 140	05/14/20 11:00	05/14/20 17:12	1
Toluene-d8 (Surr)	81		50 - 130	05/14/20 11:00	05/14/20 17:12	1
4-Bromofluorobenzene	79		57 - 140	05/14/20 11:00	05/14/20 17:12	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	46.2		7.82	1.60	mg/Kg	☼	05/14/20 11:00	05/15/20 17:02	10
Toluene	50.5		7.82	2.16	mg/Kg	☼	05/14/20 11:00	05/15/20 17:02	10
Xylenes, Total	204		7.82	1.77	mg/Kg	☼	05/14/20 11:00	05/15/20 17:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		61 - 130	05/14/20 11:00	05/15/20 17:02	10
Dibromofluoromethane	67	X	68 - 140	05/14/20 11:00	05/15/20 17:02	10
Toluene-d8 (Surr)	80		50 - 130	05/14/20 11:00	05/15/20 17:02	10
4-Bromofluorobenzene	101		57 - 140	05/14/20 11:00	05/15/20 17:02	10

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2940	B	608	356	mg/Kg	☼	05/07/20 11:46	05/09/20 19:37	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	135	X	70 - 130	05/07/20 11:46	05/09/20 19:37	500

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-10-4'

Lab Sample ID: 600-204767-20
Date Collected: 05/05/20 09:59
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 79.9

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]	5830		307	63.2	mg/Kg	☼	05/18/20 08:45	05/21/20 13:41	20
C28-C36	4170		307	185	mg/Kg	☼	05/18/20 08:45	05/21/20 13:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 13:41*	*20*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		100	13.4	mg/Kg	☼		05/27/20 01:55	20

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.1		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	79.9		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-21
Date Collected: 05/05/20 10:16
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000743	U	0.00590	0.000743	mg/Kg	☼	05/07/20 13:34	05/11/20 19:44	1
Ethylbenzene	0.00527	J	0.00590	0.00120	mg/Kg	☼	05/07/20 13:34	05/11/20 19:44	1
Toluene	0.0119		0.00590	0.00163	mg/Kg	☼	05/07/20 13:34	05/11/20 19:44	1
Xylenes, Total	0.0254		0.00590	0.00133	mg/Kg	☼	05/07/20 13:34	05/11/20 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*61 - 130*	*05/07/20 13:34*	*05/11/20 19:44*	*1*
Dibromofluoromethane	*85*		*68 - 140*	*05/07/20 13:34*	*05/11/20 19:44*	*1*
Toluene-d8 (Surr)	*81*		*50 - 130*	*05/07/20 13:34*	*05/11/20 19:44*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 13:34*	*05/11/20 19:44*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	212	B	119	69.7	mg/Kg	☼	05/07/20 11:46	05/08/20 10:15	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*218*	*X*	*70 - 130*	*05/07/20 11:46*	*05/08/20 10:15*	*100*

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]	15900		1390	287	mg/Kg	☼	05/18/20 08:45	05/21/20 17:37	100
C28-C36	27500		1390	840	mg/Kg	☼	05/18/20 08:45	05/21/20 17:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/18/20 08:45*	*05/21/20 17:37*	*100*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		226	30.2	mg/Kg	☼		05/27/20 02:56	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-21
Date Collected: 05/05/20 10:16
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	88.5		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-11-2'

Lab Sample ID: 600-204767-22
Date Collected: 05/05/20 10:20
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 86.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000809	U	0.00642	0.000809	mg/Kg	☼	05/07/20 13:34	05/11/20 20:08	1
Ethylbenzene	0.00131	U	0.00642	0.00131	mg/Kg	☼	05/07/20 13:34	05/11/20 20:08	1
Toluene	0.00342	J	0.00642	0.00177	mg/Kg	☼	05/07/20 13:34	05/11/20 20:08	1
Xylenes, Total	0.00145	U	0.00642	0.00145	mg/Kg	☼	05/07/20 13:34	05/11/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*61 - 130*	*05/07/20 13:34*	*05/11/20 20:08*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*05/07/20 13:34*	*05/11/20 20:08*	*1*
Toluene-d8 (Surr)	*93*		*50 - 130*	*05/07/20 13:34*	*05/11/20 20:08*	*1*
4-Bromofluorobenzene	*114*		*57 - 140*	*05/07/20 13:34*	*05/11/20 20:08*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1.55	B	1.18	0.691	mg/Kg	☼	05/07/20 11:46	05/09/20 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*05/07/20 11:46*	*05/09/20 20:02*	*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]	121		14.4	2.96	mg/Kg	☼	05/18/20 08:45	05/21/20 02:52	1
C28-C36	397		14.4	8.65	mg/Kg	☼	05/18/20 08:45	05/21/20 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*102*		*60 - 140*	*05/18/20 08:45*	*05/21/20 02:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		46.1	6.16	mg/Kg	☼		05/27/20 03:17	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.3		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	86.7		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-11-4'

Lab Sample ID: 600-204767-23
Date Collected: 05/05/20 10:35
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000670	U	0.00532	0.000670	mg/Kg	☼	05/07/20 13:34	05/11/20 20:32	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-11-4'

Lab Sample ID: 600-204767-23
Date Collected: 05/05/20 10:35
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00108	U	0.00532	0.00108	mg/Kg	☼	05/07/20 13:34	05/11/20 20:32	1
Toluene	**0.00232**	**J**	0.00532	0.00147	mg/Kg	☼	05/07/20 13:34	05/11/20 20:32	1
Xylenes, Total	0.00120	U	0.00532	0.00120	mg/Kg	☼	05/07/20 13:34	05/11/20 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*61 - 130*	*05/07/20 13:34*	*05/11/20 20:32*	*1*
Dibromofluoromethane	*83*		*68 - 140*	*05/07/20 13:34*	*05/11/20 20:32*	*1*
Toluene-d8 (Surr)	*85*		*50 - 130*	*05/07/20 13:34*	*05/11/20 20:32*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*	*05/07/20 13:34*	*05/11/20 20:32*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.45**	**B**	1.19	0.697	mg/Kg	☼	05/07/20 11:46	05/08/20 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*70 - 130*	*05/07/20 11:46*	*05/08/20 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]	**16.5**		14.1	2.91	mg/Kg	☼	05/18/20 08:45	05/21/20 15:51	1
C28-C36	**141**		14.1	8.52	mg/Kg	☼	05/18/20 08:45	05/21/20 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*60 - 140*	*05/18/20 08:45*	*05/21/20 15:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**	**F1**	22.7	3.03	mg/Kg	☼		05/27/20 04:18	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.0**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**88.0**		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-11-5'

Lab Sample ID: 600-204767-24
Date Collected: 05/05/20 10:45
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 80.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000771	U *3	0.00612	0.000771	mg/Kg	☼	05/07/20 13:34	05/11/20 20:56	1
Ethylbenzene	0.00125	U *3	0.00612	0.00125	mg/Kg	☼	05/07/20 13:34	05/11/20 20:56	1
Toluene	**0.00411**	**J *3**	0.00612	0.00169	mg/Kg	☼	05/07/20 13:34	05/11/20 20:56	1
Xylenes, Total	0.00138	U *3	0.00612	0.00138	mg/Kg	☼	05/07/20 13:34	05/11/20 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*136*	**3 X*	*61 - 130*	*05/07/20 13:34*	*05/11/20 20:56*	*1*
Dibromofluoromethane	*103*	**3*	*68 - 140*	*05/07/20 13:34*	*05/11/20 20:56*	*1*
Toluene-d8 (Surr)	*84*	**3*	*50 - 130*	*05/07/20 13:34*	*05/11/20 20:56*	*1*
4-Bromofluorobenzene	*91*	**3*	*57 - 140*	*05/07/20 13:34*	*05/11/20 20:56*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-11-5'

Lab Sample ID: 600-204767-24
Date Collected: 05/05/20 10:45
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 80.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1.03	J B	1.27	0.746	mg/Kg	☼	05/07/20 11:46	05/08/20 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*70 - 130*	*05/07/20 11:46*	*05/08/20 11:26*	*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]	67.5		15.4	3.18	mg/Kg	☼	05/18/20 08:45	05/20/20 23:26	1
C28-C36	389		15.4	9.29	mg/Kg	☼	05/18/20 08:45	05/20/20 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*60 - 140*	*05/18/20 08:45*	*05/20/20 23:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	996		249	33.2	mg/Kg	☼		05/27/20 05:19	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.5		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	80.5		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-25
Date Collected: 05/05/20 11:20
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00124	J	0.00592	0.000746	mg/Kg	☼	05/07/20 13:34	05/11/20 21:19	1
Ethylbenzene	0.167		0.00592	0.00121	mg/Kg	☼	05/07/20 13:34	05/11/20 21:19	1
Toluene	0.00233	J	0.00592	0.00163	mg/Kg	☼	05/07/20 13:34	05/11/20 21:19	1
Xylenes, Total	0.206		0.00592	0.00134	mg/Kg	☼	05/07/20 13:34	05/11/20 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*61 - 130*	*05/07/20 13:34*	*05/11/20 21:19*	*1*
Dibromofluoromethane	*82*		*68 - 140*	*05/07/20 13:34*	*05/11/20 21:19*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*	*05/07/20 13:34*	*05/11/20 21:19*	*1*
4-Bromofluorobenzene	*101*		*57 - 140*	*05/07/20 13:34*	*05/11/20 21:19*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	217	B	25.0	14.6	mg/Kg	☼	05/07/20 11:46	05/08/20 11:50	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*70 - 130*	*05/07/20 11:46*	*05/08/20 11:50*	*20*

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]	6560		369	76.0	mg/Kg	☼	05/19/20 09:57	05/21/20 08:28	25
C28-C36	6500		369	222	mg/Kg	☼	05/19/20 09:57	05/21/20 08:28	25

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-25
Date Collected: 05/05/20 11:20
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	60 - 140	05/19/20 09:57	05/21/20 08:28	25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651		120	16.0	mg/Kg	☼		05/27/20 05:40	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	83.7		1.0	1.0	%			05/07/20 08:53	1

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

Lab Sample ID: 600-204767-26
Date Collected: 05/05/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000753	U	0.00598	0.000753	mg/Kg	☼	05/07/20 13:34	05/11/20 21:43	1
Ethylbenzene	0.0272		0.00598	0.00122	mg/Kg	☼	05/07/20 13:34	05/11/20 21:43	1
Toluene	0.0122		0.00598	0.00165	mg/Kg	☼	05/07/20 13:34	05/11/20 21:43	1
Xylenes, Total	0.292		0.00598	0.00135	mg/Kg	☼	05/07/20 13:34	05/11/20 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130	05/07/20 13:34	05/11/20 21:43	1
Dibromofluoromethane	79		68 - 140	05/07/20 13:34	05/11/20 21:43	1
Toluene-d8 (Surr)	95		50 - 130	05/07/20 13:34	05/11/20 21:43	1
4-Bromofluorobenzene	97		57 - 140	05/07/20 13:34	05/11/20 21:43	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	368	B	21.7	12.7	mg/Kg	☼	05/07/20 11:46	05/08/20 14:17	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	119		70 - 130	05/07/20 11:46	05/08/20 14:17	20

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]	7030		336	69.2	mg/Kg	☼	05/19/20 09:57	05/21/20 09:03	25
C28-C36	7060		336	202	mg/Kg	☼	05/19/20 09:57	05/21/20 09:03	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	60 - 140	05/19/20 09:57	05/21/20 09:03	25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		436	58.2	mg/Kg	☼		05/27/20 06:00	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	91.7		1.0	1.0	%			05/07/20 09:19	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-13-2'

Lab Sample ID: 600-204767-27
Date Collected: 05/05/20 11:42
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.447	J	0.713	0.0898	mg/Kg	☼	05/14/20 11:00	05/14/20 17:36	1
Ethylbenzene	20.0		0.713	0.145	mg/Kg	☼	05/14/20 11:00	05/14/20 17:36	1
Toluene	3.66		0.713	0.197	mg/Kg	☼	05/14/20 11:00	05/14/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*67*		*61 - 130*	*05/14/20 11:00*	*05/14/20 17:36*	*1*
Dibromofluoromethane	*66*	*X*	*68 - 140*	*05/14/20 11:00*	*05/14/20 17:36*	*1*
Toluene-d8 (Surr)	*82*		*50 - 130*	*05/14/20 11:00*	*05/14/20 17:36*	*1*
4-Bromofluorobenzene	*69*	**3*	*57 - 140*	*05/14/20 11:00*	*05/14/20 17:36*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	86.3		7.13	1.61	mg/Kg	☼	05/14/20 11:00	05/15/20 17:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*69*		*61 - 130*	*05/14/20 11:00*	*05/15/20 17:26*	*10*
Dibromofluoromethane	*64*	*X*	*68 - 140*	*05/14/20 11:00*	*05/15/20 17:26*	*10*
Toluene-d8 (Surr)	*70*		*50 - 130*	*05/14/20 11:00*	*05/15/20 17:26*	*10*
4-Bromofluorobenzene	*69*		*57 - 140*	*05/14/20 11:00*	*05/15/20 17:26*	*10*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	2680	B	115	67.4	mg/Kg	☼	05/07/20 11:46	05/08/20 14:41	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*139*	*X*	*70 - 130*	*05/07/20 11:46*	*05/08/20 14:41*	*100*

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]	13200		706	145	mg/Kg	☼	05/19/20 09:57	05/21/20 09:37	50
C28-C36	10700		706	425	mg/Kg	☼	05/19/20 09:57	05/21/20 09:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/19/20 09:57*	*05/21/20 09:37*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	899		45.6	6.09	mg/Kg	☼		05/27/20 06:20	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.3		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	87.7		1.0	1.0	%			05/07/20 08:53	1

Client Sample ID: HA-13-3'

Lab Sample ID: 600-204767-28
Date Collected: 05/05/20 11:50
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.399	J	0.704	0.0887	mg/Kg	☼	05/14/20 11:00	05/14/20 18:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-13-3'

Lab Sample ID: 600-204767-28
Date Collected: 05/05/20 11:50
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	7.61		0.704	0.144	mg/Kg	☼	05/14/20 11:00	05/14/20 18:01	1
Toluene	1.89		0.704	0.194	mg/Kg	☼	05/14/20 11:00	05/14/20 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*61 - 130*	*05/14/20 11:00*	*05/14/20 18:01*	*1*
Dibromofluoromethane	*69*		*68 - 140*	*05/14/20 11:00*	*05/14/20 18:01*	*1*
Toluene-d8 (Surr)	*81*		*50 - 130*	*05/14/20 11:00*	*05/14/20 18:01*	*1*
4-Bromofluorobenzene	*85*		*57 - 140*	*05/14/20 11:00*	*05/14/20 18:01*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	104		7.04	1.59	mg/Kg	☼	05/14/20 11:00	05/15/20 17:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*	*05/14/20 11:00*	*05/15/20 17:49*	*10*
Dibromofluoromethane	*68*		*68 - 140*	*05/14/20 11:00*	*05/15/20 17:49*	*10*
Toluene-d8 (Surr)	*73*		*50 - 130*	*05/14/20 11:00*	*05/15/20 17:49*	*10*
4-Bromofluorobenzene	*80*		*57 - 140*	*05/14/20 11:00*	*05/15/20 17:49*	*10*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1850	B	1180	690	mg/Kg	☼	05/07/20 11:46	05/09/20 20:26	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*687*	*X*	*70 - 130*	*05/07/20 11:46*	*05/09/20 20:26*	*1000*

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]	12000		701	144	mg/Kg	☼	05/19/20 09:57	05/21/20 10:12	50
C28-C36	9740		701	422	mg/Kg	☼	05/19/20 09:57	05/21/20 10:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/19/20 09:57*	*05/21/20 10:12*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	475		45.0	6.01	mg/Kg	☼		05/27/20 06:41	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	88.8		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-12-2'

Lab Sample ID: 600-204767-29
Date Collected: 05/05/20 11:55
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000705	U	0.00560	0.000705	mg/Kg	☼	05/13/20 12:00	05/13/20 15:44	1
Ethylbenzene	0.0274		0.00560	0.00114	mg/Kg	☼	05/13/20 12:00	05/13/20 15:44	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-12-2'

Lab Sample ID: 600-204767-29
Date Collected: 05/05/20 11:55
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.0117		0.00560	0.00154	mg/Kg	☼	05/13/20 12:00	05/13/20 15:44	1
Xylenes, Total	0.0735		0.00560	0.00126	mg/Kg	☼	05/13/20 12:00	05/13/20 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*05/13/20 12:00*	*05/13/20 15:44*	*1*
Dibromofluoromethane	*91*		*68 - 140*	*05/13/20 12:00*	*05/13/20 15:44*	*1*
Toluene-d8 (Surr)	*103*		*50 - 130*	*05/13/20 12:00*	*05/13/20 15:44*	*1*
4-Bromofluorobenzene	*132*		*57 - 140*	*05/13/20 12:00*	*05/13/20 15:44*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	197	B	119	69.8	mg/Kg	☼	05/07/20 11:46	05/09/20 20:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*70 - 130*	*05/07/20 11:46*	*05/09/20 20:50*	*100*

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]	2120		141	29.1	mg/Kg	☼	05/19/20 09:57	05/21/20 10:47	10
C28-C36	2260		141	85.0	mg/Kg	☼	05/19/20 09:57	05/21/20 10:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*112*		*60 - 140*	*05/19/20 09:57*	*05/21/20 10:47*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		9.13	1.22	mg/Kg	☼		05/27/20 15:12	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.4		1.0	1.0	%			05/07/20 09:26	1
Percent Solids	87.6		1.0	1.0	%			05/07/20 09:26	1

Client Sample ID: HA-12-3'

Lab Sample ID: 600-204767-30
Date Collected: 05/05/20 12:00
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 74.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000785	U	0.00623	0.000785	mg/Kg	☼	05/07/20 13:34	05/11/20 22:54	1
Ethylbenzene	0.00864		0.00623	0.00127	mg/Kg	☼	05/07/20 13:34	05/11/20 22:54	1
Toluene	0.0142		0.00623	0.00172	mg/Kg	☼	05/07/20 13:34	05/11/20 22:54	1
Xylenes, Total	0.0247		0.00623	0.00141	mg/Kg	☼	05/07/20 13:34	05/11/20 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*73*		*61 - 130*	*05/07/20 13:34*	*05/11/20 22:54*	*1*
Dibromofluoromethane	*79*		*68 - 140*	*05/07/20 13:34*	*05/11/20 22:54*	*1*
Toluene-d8 (Surr)	*99*		*50 - 130*	*05/07/20 13:34*	*05/11/20 22:54*	*1*
4-Bromofluorobenzene	*106*		*57 - 140*	*05/07/20 13:34*	*05/11/20 22:54*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-12-3'

Lab Sample ID: 600-204767-30
Date Collected: 05/05/20 12:00
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 74.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	11.4	B	6.67	3.91	mg/Kg	☼	05/07/20 11:46	05/09/20 21:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*70 - 130*	*05/07/20 11:46*	*05/09/20 21:15*	*5*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	264	F1	16.5	3.40	mg/Kg	☼	05/19/20 09:57	05/20/20 18:14	1
C28-C36	500		16.5	9.94	mg/Kg	☼	05/19/20 09:57	05/20/20 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*62*		*60 - 140*	*05/19/20 09:57*	*05/20/20 18:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10.7	1.43	mg/Kg	☼		05/27/20 15:32	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.1		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	74.9		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-31
Date Collected: 05/05/20 12:10
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00428	J	0.00597	0.000752	mg/Kg	☼	05/07/20 13:34	05/13/20 16:08	1
Ethylbenzene	0.128	*3	0.00597	0.00122	mg/Kg	☼	05/07/20 13:34	05/13/20 16:08	1
Toluene	0.00490	J *3	0.00597	0.00165	mg/Kg	☼	05/07/20 13:34	05/13/20 16:08	1
Xylenes, Total	0.0458	*3	0.00597	0.00135	mg/Kg	☼	05/07/20 13:34	05/13/20 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*61 - 130*	*05/07/20 13:34*	*05/13/20 16:08*	*1*
Dibromofluoromethane	*85*		*68 - 140*	*05/07/20 13:34*	*05/13/20 16:08*	*1*
Toluene-d8 (Surr)	*112*	*3*	*50 - 130*	*05/07/20 13:34*	*05/13/20 16:08*	*1*
4-Bromofluorobenzene	*184*	*X *3*	*57 - 140*	*05/07/20 13:34*	*05/13/20 16:08*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	170	B	129	75.9	mg/Kg	☼	05/07/20 11:46	05/12/20 10:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*188*	*X*	*70 - 130*	*05/07/20 11:46*	*05/12/20 10:23*	*100*

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]	9140		748	154	mg/Kg	☼	05/19/20 09:57	05/21/20 11:21	50
C28-C36	13500		748	451	mg/Kg	☼	05/19/20 09:57	05/21/20 11:21	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-31
Date Collected: 05/05/20 12:10
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*0*	*X*	*60 - 140*	*05/19/20 09:57*	*05/21/20 11:21*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**378**		240	32.1	mg/Kg	☼		05/28/20 15:28	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.8**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**83.2**		1.0	1.0	%			05/07/20 08:53	1

Client Sample ID: HA-14-2'

Lab Sample ID: 600-204767-32
Date Collected: 05/05/20 12:20
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 85.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00204**	**J**	0.00575	0.000724	mg/Kg	☼	05/13/20 17:20	05/13/20 19:00	1
Ethylbenzene	0.00117	U	0.00575	0.00117	mg/Kg	☼	05/13/20 17:20	05/13/20 19:00	1
Toluene	**0.00598**		0.00575	0.00159	mg/Kg	☼	05/13/20 17:20	05/13/20 19:00	1
Xylenes, Total	**0.00193**	**J**	0.00575	0.00130	mg/Kg	☼	05/13/20 17:20	05/13/20 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/13/20 17:20*	*05/13/20 19:00*	*1*
Dibromofluoromethane	*82*		*68 - 140*	*05/13/20 17:20*	*05/13/20 19:00*	*1*
Toluene-d8 (Surr)	*97*		*50 - 130*	*05/13/20 17:20*	*05/13/20 19:00*	*1*
4-Bromofluorobenzene	*113*		*57 - 140*	*05/13/20 17:20*	*05/13/20 19:00*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.36**	**B**	1.23	0.720	mg/Kg	☼	05/07/20 11:46	05/12/20 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*98*		*70 - 130*	*05/07/20 11:46*	*05/12/20 14:15*	*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]	**748**		72.1	14.8	mg/Kg	☼	05/19/20 09:57	05/20/20 21:08	5
C28-C36	**2210**		72.1	43.4	mg/Kg	☼	05/19/20 09:57	05/20/20 21:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	*100*		*60 - 140*	*05/19/20 09:57*	*05/20/20 21:08*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1310**		117	15.6	mg/Kg	☼		05/28/20 15:49	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.2**		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	**85.8**		1.0	1.0	%			05/07/20 08:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-14-3'

Lab Sample ID: 600-204767-33
Date Collected: 05/05/20 12:26
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 86.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000730	U	0.00580	0.000730	mg/Kg	☼	05/13/20 17:20	05/13/20 19:24	1
Ethylbenzene	0.00118	U	0.00580	0.00118	mg/Kg	☼	05/13/20 17:20	05/13/20 19:24	1
Toluene	**0.0105**		0.00580	0.00160	mg/Kg	☼	05/13/20 17:20	05/13/20 19:24	1
Xylenes, Total	**0.00332**	**J**	0.00580	0.00131	mg/Kg	☼	05/13/20 17:20	05/13/20 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*	*05/13/20 17:20*	*05/13/20 19:24*	*1*
Dibromofluoromethane	*87*		*68 - 140*	*05/13/20 17:20*	*05/13/20 19:24*	*1*
Toluene-d8 (Surr)	*92*		*50 - 130*	*05/13/20 17:20*	*05/13/20 19:24*	*1*
4-Bromofluorobenzene	*120*		*57 - 140*	*05/13/20 17:20*	*05/13/20 19:24*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**1.34**	**B**	1.19	0.695	mg/Kg	☼	05/07/20 11:46	05/12/20 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*70 - 130*	*05/07/20 11:46*	*05/12/20 14:40*	*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]	**1050**		143	29.5	mg/Kg	☼	05/19/20 09:57	05/21/20 11:56	10
C28-C36	**2430**		143	86.2	mg/Kg	☼	05/19/20 09:57	05/21/20 11:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*60 - 140*	*05/19/20 09:57*	*05/21/20 11:56*	*10*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		46.4	6.19	mg/Kg	☼		05/28/20 16:09	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.7**		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	**86.3**		1.0	1.0	%			05/07/20 09:19	1

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

Lab Sample ID: 600-204767-34
Date Collected: 05/05/20 12:32
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 92.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000821**	**J**	0.00544	0.000685	mg/Kg	☼	05/13/20 18:00	05/13/20 19:48	1
Ethylbenzene	0.00111	U	0.00544	0.00111	mg/Kg	☼	05/13/20 18:00	05/13/20 19:48	1
Toluene	**0.0201**		0.00544	0.00150	mg/Kg	☼	05/13/20 18:00	05/13/20 19:48	1
Xylenes, Total	**0.00253**	**J**	0.00544	0.00123	mg/Kg	☼	05/13/20 18:00	05/13/20 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*	*05/13/20 18:00*	*05/13/20 19:48*	*1*
Dibromofluoromethane	*86*		*68 - 140*	*05/13/20 18:00*	*05/13/20 19:48*	*1*
Toluene-d8 (Surr)	*98*		*50 - 130*	*05/13/20 18:00*	*05/13/20 19:48*	*1*
4-Bromofluorobenzene	*130*	*3	*57 - 140*	*05/13/20 18:00*	*05/13/20 19:48*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-34
Date Collected: 05/05/20 12:32
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 92.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	17.1	B	11.1	6.49	mg/Kg	☼	05/07/20 11:46	05/12/20 13:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*70 - 130*	*05/07/20 11:46*	*05/12/20 13:14*	*10*

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]	9540		669	138	mg/Kg	☼	05/19/20 09:57	05/21/20 12:31	50
C28-C36	14500		669	403	mg/Kg	☼	05/19/20 09:57	05/21/20 12:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/19/20 09:57*	*05/21/20 12:31*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3880		431	57.6	mg/Kg	☼		05/28/20 17:10	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		1.0	1.0	%			05/07/20 09:19	1
Percent Solids	92.7		1.0	1.0	%			05/07/20 09:19	1

Client Sample ID: HA-15-2'

Lab Sample ID: 600-204767-35
Date Collected: 05/05/20 12:40
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 89.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000711	U	0.00564	0.000711	mg/Kg	☼	05/13/20 18:00	05/13/20 20:12	1
Ethylbenzene	0.0943		0.00564	0.00115	mg/Kg	☼	05/13/20 18:00	05/13/20 20:12	1
Toluene	0.0228		0.00564	0.00156	mg/Kg	☼	05/13/20 18:00	05/13/20 20:12	1
Xylenes, Total	0.274		0.00564	0.00128	mg/Kg	☼	05/13/20 18:00	05/13/20 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*61 - 130*	*05/13/20 18:00*	*05/13/20 20:12*	*1*
Dibromofluoromethane	*83*		*68 - 140*	*05/13/20 18:00*	*05/13/20 20:12*	*1*
Toluene-d8 (Surr)	*90*		*50 - 130*	*05/13/20 18:00*	*05/13/20 20:12*	*1*
4-Bromofluorobenzene	*102*		*57 - 140*	*05/13/20 18:00*	*05/13/20 20:12*	*1*

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	295	B	119	69.6	mg/Kg	☼	05/07/20 11:46	05/12/20 12:01	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*70 - 130*	*05/07/20 11:46*	*05/12/20 12:01*	*100*

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]	6510		697	144	mg/Kg	☼	05/19/20 09:57	05/21/20 13:06	50
C28-C36	9620		697	420	mg/Kg	☼	05/19/20 09:57	05/21/20 13:06	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-15-2'

Date Collected: 05/05/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-35

Matrix: Solid
Percent Solids: 89.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*X*	*60 - 140*	*05/19/20 09:57*	*05/21/20 13:06*	*50*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2650		224	29.9	mg/Kg	☼		05/28/20 17:31	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		1.0	1.0	%			05/07/20 08:53	1
Percent Solids	89.3		1.0	1.0	%			05/07/20 08:53	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
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

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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.
X	Surrogate recovery exceeds control limits

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-204767-1	HA-1-0-"6"	75	95	106	101
600-204767-2	HA-2-0-"6"	77	99	110	102
600-204767-3	HA-2-1'	75	96	103	102
600-204767-4	HA-3-0-"6"	70	92	109	103
600-204767-5	HA-3-1'	76	97	106	106
600-204767-6	HA-4-0-"6"	76	97	104	105
600-204767-7	HA-5-0-"6"	81	99	108	113
600-204767-8	HA-5-2'	75	96	109	109
600-204767-9	HA-5-4'	75	96	110	109
600-204767-10	HA-5-5'	78	100	107	105
600-204767-11	HA-6-0-"6"	100	96	89	106
600-204767-12	HA-7-0-"3"	97	90	96	110
600-204767-13	HA-8-0-"3"	92	91	97	125
600-204767-14	HA-9-0-"6"	86	87	91	106
600-204767-15	HA-9-2'	84	90	96	111
600-204767-16	HA-9-4'	87	92	93	109
600-204767-17	HA-9-5'	80	84	92	106
600-204767-18	HA-10-0-"6"	91	87	96	98
600-204767-19	HA-10-2'	66	63 X	80	77
600-204767-19 - DL	HA-10-2'	64	64 X	76	112
600-204767-20	HA-10-4'	69	67 X	81	79
600-204767-20 - DL	HA-10-4'	77	67 X	80	101
600-204767-21	HA-11-0-"6"	96	85	81	106
600-204767-22	HA-11-2'	91	87	93	114
600-204767-23	HA-11-4'	89	83	85	113
600-204767-24	HA-11-5'	136 *3 X	103 *3	84 *3	91 *3
600-204767-25	HA-12-0-"6"	90	82	92	101
600-204767-26	HA-13-0-"6"	81	79	95	97
600-204767-27	HA-13-2'	67	66 X	82	69 *3
600-204767-27 - DL	HA-13-2'	69	64 X	70	69
600-204767-28	HA-13-3'	72	69	81	85
600-204767-28 - DL	HA-13-3'	71	68	73	80
600-204767-29	HA-12-2'	84	91	103	132
600-204767-30	HA-12-3'	73	79	99	106
600-204767-31	HA-14-0-"6"	77	85	112 *3	184 X *3
600-204767-32	HA-14-2'	75	82	97	113
600-204767-33	HA-14-3'	75	87	92	120
600-204767-34	HA-15-0"6"	84	86	98	130 *3
600-204767-35	HA-15-2'	78	83	90	102
LCS 600-294101/3	Lab Control Sample	110	134	129	98
LCS 600-294251/4	Lab Control Sample	99	105	102	128
LCS 600-294415/4	Lab Control Sample	71	80	93	105
LCS 600-294517/1-A	Lab Control Sample	101	98	108	106
LCSD 600-294101/4	Lab Control Sample Dup	102	117	106	85
LCSD 600-294251/5	Lab Control Sample Dup	98	97	97	113
LCSD 600-294415/5	Lab Control Sample Dup	75	84	98	114
LCSD 600-294517/2-A	Lab Control Sample Dup	98	94	107	97
MB 600-294101/6	Method Blank	81	96	100	105
MB 600-294251/7	Method Blank	84	86	99	118

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
MB 600-294415/7	Method Blank	73	82	110	118
MB 600-294517/3-A	Method Blank	74	70	86	80

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
600-204767-1	HA-1-0-"6"	99
600-204767-2	HA-2-0-"6"	107
600-204767-3	HA-2-1'	110
600-204767-4	HA-3-0-"6"	111
600-204767-5	HA-3-1'	104
600-204767-6	HA-4-0-"6"	100
600-204767-7	HA-5-0-"6"	110
600-204767-8	HA-5-2'	113
600-204767-9	HA-5-4'	97
600-204767-10	HA-5-5'	104
600-204767-11	HA-6-0-"6"	108
600-204767-12	HA-7-0-"3"	106
600-204767-13	HA-8-0-"3"	103
600-204767-14	HA-9-0-"6"	111
600-204767-15	HA-9-2'	168 X
600-204767-16	HA-9-4'	104
600-204767-17	HA-9-5'	89
600-204767-18	HA-10-0-"6"	110
600-204767-19	HA-10-2'	214 X
600-204767-20	HA-10-4'	135 X
600-204767-21	HA-11-0-"6"	218 X
600-204767-22	HA-11-2'	104
600-204767-23	HA-11-4'	111
600-204767-24	HA-11-5'	104
600-204767-25	HA-12-0-"6"	114
600-204767-26	HA-13-0-"6"	119
600-204767-27	HA-13-2'	139 X
600-204767-28	HA-13-3'	687 X
600-204767-29	HA-12-2'	114
600-204767-30	HA-12-3'	97
600-204767-31	HA-14-0-"6"	188 X
600-204767-32	HA-14-2'	98
600-204767-33	HA-14-3'	94
600-204767-34	HA-15-0"6"	116
600-204767-35	HA-15-2'	116
LCS 600-293875/1-A	Lab Control Sample	106

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT1 (70-130)
LCS 600-294054/1-A	Lab Control Sample	102
LCS 600-294281/5	Lab Control Sample	96
LCSD 600-293875/2-A	Lab Control Sample Dup	104
LCSD 600-294054/2-A	Lab Control Sample Dup	103
LCSD 600-294281/6	Lab Control Sample Dup	97
MB 600-293875/3-A	Method Blank	103
MB 600-294054/3-A	Method Blank	101
MB 600-294281/7	Method Blank	95

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)
600-204767-1 - DL	HA-1-0-"6"	96
600-204767-2	HA-2-0-"6"	82
600-204767-3	HA-2-1'	113
600-204767-4 - DL	HA-3-0-"6"	102
600-204767-5 - DL	HA-3-1'	118
600-204767-6	HA-4-0-"6"	99
600-204767-7 - DL	HA-5-0-"6"	0 X
600-204767-8 - DL	HA-5-2'	130
600-204767-8 MS - DL	HA-5-2'	101
600-204767-8 MSD - DL	HA-5-2'	106
600-204767-9 - DL	HA-5-4'	0 X
600-204767-10	HA-5-5'	128
600-204767-11	HA-6-0-"6"	84
600-204767-12 - DL	HA-7-0-"3"	82
600-204767-13	HA-8-0-"3"	92
600-204767-14 - DL	HA-9-0-"6"	0 X
600-204767-15 - DL	HA-9-2'	0 X
600-204767-16	HA-9-4'	125
600-204767-17 - DL	HA-9-5'	147 X
600-204767-18 - DL	HA-10-0-"6"	0 X
600-204767-19 - DL	HA-10-2'	81
600-204767-20 - DL	HA-10-4'	0 X
600-204767-21 - DL	HA-11-0-"6"	0 X
600-204767-22	HA-11-2'	102
600-204767-23	HA-11-4'	62
600-204767-24	HA-11-5'	75
600-204767-25 - DL	HA-12-0-"6"	0 X
600-204767-26 - DL	HA-13-0-"6"	0 X
600-204767-27 - DL	HA-13-2'	0 X
600-204767-28 - DL	HA-13-3'	0 X
600-204767-29 - DL	HA-12-2'	112
600-204767-30	HA-12-3'	62
600-204767-30 MS	HA-12-3'	66

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 600-204767-1
Project/Site: Chevron SCB 23-14

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)						
600-204767-30 MSD	HA-12-3'	85						
600-204767-31 - DL	HA-14-0-"6"	0 X						
600-204767-32 - DL	HA-14-2'	100						
600-204767-33 - DL	HA-14-3'	91						
600-204767-34 - DL	HA-15-0"6"	0 X						
600-204767-35 - DL	HA-15-2'	0 X						
LCS 600-294384/2-A	Lab Control Sample	119						
LCS 600-294384/2-A	Lab Control Sample	104						
LCS 600-294664/2-A	Lab Control Sample	129						
LCS 600-294745/2-A	Lab Control Sample	131						
MB 600-294384/1-A	Method Blank	123						
MB 600-294384/1-A	Method Blank	126						
MB 600-294664/1-A	Method Blank	121						
MB 600-294745/1-A	Method Blank	115						

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-294101/6
Matrix: Solid
Analysis Batch: 294101

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

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/08/20 10:24	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/08/20 10:24	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/08/20 10:24	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/08/20 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*61 - 130*		*05/08/20 10:24*	*1*
Dibromofluoromethane	*96*		*68 - 140*		*05/08/20 10:24*	*1*
Toluene-d8 (Surr)	*100*		*50 - 130*		*05/08/20 10:24*	*1*
4-Bromofluorobenzene	*105*		*57 - 140*		*05/08/20 10:24*	*1*

Lab Sample ID: LCS 600-294101/3
Matrix: Solid
Analysis Batch: 294101

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.06056		mg/Kg		121	70 - 131
Ethylbenzene	0.0500	0.06424		mg/Kg		128	66 - 130
Toluene	0.0500	0.05654		mg/Kg		113	67 - 130
Xylenes, Total	0.100	0.1186		mg/Kg		119	63 - 130
m-Xylene & p-Xylene	0.0500	0.05672		mg/Kg		113	64 - 130
o-Xylene	0.0500	0.06188		mg/Kg		124	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*61 - 130*
Dibromofluoromethane	*134*		*68 - 140*
Toluene-d8 (Surr)	*129*		*50 - 130*
4-Bromofluorobenzene	*98*		*57 - 140*

Lab Sample ID: LCSD 600-294101/4
Matrix: Solid
Analysis Batch: 294101

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05174		mg/Kg		103	70 - 131	16	30
Ethylbenzene	0.0500	0.05136		mg/Kg		103	66 - 130	22	30
Toluene	0.0500	0.04775		mg/Kg		95	67 - 130	17	30
Xylenes, Total	0.100	0.09738		mg/Kg		97	63 - 130	20	30
m-Xylene & p-Xylene	0.0500	0.04655		mg/Kg		93	64 - 130	20	30
o-Xylene	0.0500	0.05083		mg/Kg		102	62 - 130	20	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*61 - 130*
Dibromofluoromethane	*117*		*68 - 140*
Toluene-d8 (Surr)	*106*		*50 - 130*
4-Bromofluorobenzene	*85*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-294251/7
Matrix: Solid
Analysis Batch: 294251

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

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/11/20 14:56	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/11/20 14:56	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/11/20 14:56	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/11/20 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*61 - 130*		*05/11/20 14:56*	*1*
Dibromofluoromethane	*86*		*68 - 140*		*05/11/20 14:56*	*1*
Toluene-d8 (Surr)	*99*		*50 - 130*		*05/11/20 14:56*	*1*
4-Bromofluorobenzene	*118*		*57 - 140*		*05/11/20 14:56*	*1*

Lab Sample ID: LCS 600-294251/4
Matrix: Solid
Analysis Batch: 294251

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05380		mg/Kg		108	70 - 131
Ethylbenzene	0.0500	0.05036		mg/Kg		101	66 - 130
Toluene	0.0500	0.05144		mg/Kg		103	67 - 130
Xylenes, Total	0.100	0.1022		mg/Kg		102	63 - 130
m-Xylene & p-Xylene	0.0500	0.05241		mg/Kg		105	64 - 130
o-Xylene	0.0500	0.04976		mg/Kg		100	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*61 - 130*
Dibromofluoromethane	*105*		*68 - 140*
Toluene-d8 (Surr)	*102*		*50 - 130*
4-Bromofluorobenzene	*128*		*57 - 140*

Lab Sample ID: LCSD 600-294251/5
Matrix: Solid
Analysis Batch: 294251

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05195		mg/Kg		104	70 - 131	3	30
Ethylbenzene	0.0500	0.04986		mg/Kg		100	66 - 130	1	30
Toluene	0.0500	0.04900		mg/Kg		98	67 - 130	5	30
Xylenes, Total	0.100	0.09759		mg/Kg		98	63 - 130	5	30
m-Xylene & p-Xylene	0.0500	0.05046		mg/Kg		101	64 - 130	4	30
o-Xylene	0.0500	0.04713		mg/Kg		94	62 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 130*
Dibromofluoromethane	*97*		*68 - 140*
Toluene-d8 (Surr)	*97*		*50 - 130*
4-Bromofluorobenzene	*113*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-294415/7
Matrix: Solid
Analysis Batch: 294415

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

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/13/20 13:59	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/13/20 13:59	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/13/20 13:59	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/13/20 13:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*73*		*61 - 130*		*05/13/20 13:59*	*1*
Dibromofluoromethane	*82*		*68 - 140*		*05/13/20 13:59*	*1*
Toluene-d8 (Surr)	*110*		*50 - 130*		*05/13/20 13:59*	*1*
4-Bromofluorobenzene	*118*		*57 - 140*		*05/13/20 13:59*	*1*

Lab Sample ID: LCS 600-294415/4
Matrix: Solid
Analysis Batch: 294415

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04508		mg/Kg		90	70 - 131
Ethylbenzene	0.0500	0.04746		mg/Kg		95	66 - 130
Toluene	0.0500	0.04554		mg/Kg		91	67 - 130
Xylenes, Total	0.100	0.09421		mg/Kg		94	63 - 130
m-Xylene & p-Xylene	0.0500	0.04831		mg/Kg		97	64 - 130
o-Xylene	0.0500	0.04590		mg/Kg		92	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*71*		*61 - 130*
Dibromofluoromethane	*80*		*68 - 140*
Toluene-d8 (Surr)	*93*		*50 - 130*
4-Bromofluorobenzene	*105*		*57 - 140*

Lab Sample ID: LCSD 600-294415/5
Matrix: Solid
Analysis Batch: 294415

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04925		mg/Kg		99	70 - 131	9	30
Ethylbenzene	0.0500	0.04948		mg/Kg		99	66 - 130	4	30
Toluene	0.0500	0.04812		mg/Kg		96	67 - 130	6	30
Xylenes, Total	0.100	0.09755		mg/Kg		98	63 - 130	3	30
m-Xylene & p-Xylene	0.0500	0.05104		mg/Kg		102	64 - 130	5	30
o-Xylene	0.0500	0.04651		mg/Kg		93	62 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*61 - 130*
Dibromofluoromethane	*84*		*68 - 140*
Toluene-d8 (Surr)	*98*		*50 - 130*
4-Bromofluorobenzene	*114*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-294517/3-A
Matrix: Solid
Analysis Batch: 294520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294517

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0788	U	0.625	0.0788	mg/Kg		05/14/20 11:00	05/14/20 14:21	1
Ethylbenzene	0.128	U	0.625	0.128	mg/Kg		05/14/20 11:00	05/14/20 14:21	1
Toluene	0.173	U	0.625	0.173	mg/Kg		05/14/20 11:00	05/14/20 14:21	1
Xylenes, Total	0.141	U	0.625	0.141	mg/Kg		05/14/20 11:00	05/14/20 14:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*74*		*61 - 130*	*05/14/20 11:00*	*05/14/20 14:21*	*1*
Dibromofluoromethane	*70*		*68 - 140*	*05/14/20 11:00*	*05/14/20 14:21*	*1*
Toluene-d8 (Surr)	*86*		*50 - 130*	*05/14/20 11:00*	*05/14/20 14:21*	*1*
4-Bromofluorobenzene	*80*		*57 - 140*	*05/14/20 11:00*	*05/14/20 14:21*	*1*

Lab Sample ID: LCS 600-294517/1-A
Matrix: Solid
Analysis Batch: 294520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	6.25	5.133		mg/Kg		82	70 - 131
Ethylbenzene	6.25	6.032		mg/Kg		97	66 - 130
Toluene	6.25	5.948		mg/Kg		95	67 - 130
Xylenes, Total	12.5	11.59		mg/Kg		93	63 - 130
m-Xylene & p-Xylene	6.25	5.945		mg/Kg		95	64 - 130
o-Xylene	6.25	5.644		mg/Kg		90	62 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*61 - 130*
Dibromofluoromethane	*98*		*68 - 140*
Toluene-d8 (Surr)	*108*		*50 - 130*
4-Bromofluorobenzene	*106*		*57 - 140*

Lab Sample ID: LCSD 600-294517/2-A
Matrix: Solid
Analysis Batch: 294520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 294517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	6.25	4.931		mg/Kg		79	70 - 131	4	30
Ethylbenzene	6.25	6.055		mg/Kg		97	66 - 130	0	30
Toluene	6.25	5.710		mg/Kg		91	67 - 130	4	30
Xylenes, Total	12.5	11.38		mg/Kg		91	63 - 130	2	30
m-Xylene & p-Xylene	6.25	5.839		mg/Kg		93	64 - 130	2	30
o-Xylene	6.25	5.543		mg/Kg		89	62 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*61 - 130*
Dibromofluoromethane	*94*		*68 - 140*
Toluene-d8 (Surr)	*107*		*50 - 130*
4-Bromofluorobenzene	*97*		*57 - 140*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-293875/3-A
Matrix: Solid
Analysis Batch: 294017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293875

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		05/07/20 07:02	05/07/20 09:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*70 - 130*	*05/07/20 07:02*	*05/07/20 09:34*	*1*

Lab Sample ID: LCS 600-293875/1-A
Matrix: Solid
Analysis Batch: 294017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.00	5.818		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*106*		*70 - 130*

Lab Sample ID: LCSD 600-293875/2-A
Matrix: Solid
Analysis Batch: 294017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.00	5.648		mg/Kg		113	70 - 130	3	30

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

Lab Sample ID: MB 600-294054/3-A
Matrix: Solid
Analysis Batch: 294103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294054

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.9074	J	1.00	0.586	mg/Kg		05/07/20 11:46	05/08/20 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*70 - 130*	*05/07/20 11:46*	*05/08/20 09:40*	*1*

Lab Sample ID: LCS 600-294054/1-A
Matrix: Solid
Analysis Batch: 294103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.00	5.166		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: LCSD 600-294054/2-A
Matrix: Solid
Analysis Batch: 294103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 294054

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			5.00	5.544		mg/Kg		111	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*70 - 130*

Lab Sample ID: MB 600-294281/7
Matrix: Solid
Analysis Batch: 294281

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

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.0293	U	0.0500	0.0293	mg/Kg			05/12/20 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*70 - 130*		*05/12/20 09:59*	*1*

Lab Sample ID: LCS 600-294281/5
Matrix: Solid
Analysis Batch: 294281

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			0.252	0.2241		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*96*		*70 - 130*

Lab Sample ID: LCSD 600-294281/6
Matrix: Solid
Analysis Batch: 294281

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
Gasoline Range Organics [C6 - C10]			0.252	0.2522		mg/Kg		100	70 - 130	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*70 - 130*

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

Lab Sample ID: MB 600-294384/1-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294384

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.71	U	8.30	1.71	mg/Kg		05/13/20 09:15	05/13/20 15:16	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: MB 600-294384/1-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294384

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	123		60 - 140	05/13/20 09:15	05/13/20 15:16	1

Lab Sample ID: MB 600-294384/1-A
Matrix: Solid
Analysis Batch: 294461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294384

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		05/13/20 09:15	05/14/20 02:49	1
C28-C36	5.00	U	8.30	5.00	mg/Kg		05/13/20 09:15	05/14/20 02:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	126		60 - 140	05/13/20 09:15	05/14/20 02:49	1

Lab Sample ID: LCS 600-294384/2-A
Matrix: Solid
Analysis Batch: 294371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	71.49		mg/Kg		107	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	119		60 - 140

Lab Sample ID: LCS 600-294384/2-A
Matrix: Solid
Analysis Batch: 294461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	50.00		mg/Kg		75	66 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	104		60 - 140

Lab Sample ID: MB 600-294664/1-A
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294664

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.57	U	12.5	2.57	mg/Kg		05/18/20 08:45	05/20/20 15:53	1
C28-C36	7.50	U	12.5	7.50	mg/Kg		05/18/20 08:45	05/20/20 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	121		60 - 140	05/18/20 08:45	05/20/20 15:53	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: LCS 600-294664/2-A
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			100	72.35		mg/Kg		72	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*129*		*60 - 140*

Lab Sample ID: MB 600-294745/1-A
Matrix: Solid
Analysis Batch: 294871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 294745

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		05/19/20 09:57	05/20/20 13:44	1
C28-C36	5.00	U	8.30	5.00	mg/Kg		05/19/20 09:57	05/20/20 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*60 - 140*	*05/19/20 09:57*	*05/20/20 13:44*	*1*

Lab Sample ID: LCS 600-294745/2-A
Matrix: Solid
Analysis Batch: 294871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 294745

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			66.7	48.16		mg/Kg		72	66 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*131*		*60 - 140*

Lab Sample ID: 600-204767-30 MS
Matrix: Solid
Analysis Batch: 294871

Client Sample ID: HA-12-3'
Prep Type: Total/NA
Prep Batch: 294745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	264	F1	133	219.3	F1	mg/Kg	☼	-34	66 - 134		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*66*		*60 - 140*

Lab Sample ID: 600-204767-30 MSD
Matrix: Solid
Analysis Batch: 294871

Client Sample ID: HA-12-3'
Prep Type: Total/NA
Prep Batch: 294745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	264	F1	132	275.4	F1	mg/Kg	☼	9	66 - 134	23	30

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-30 MSD
Matrix: Solid
Analysis Batch: 294871

Client Sample ID: HA-12-3'
Prep Type: Total/NA
Prep Batch: 294745

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	85		60 - 140

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

Lab Sample ID: 600-204767-8 MS
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: HA-5-2'
Prep Type: Total/NA
Prep Batch: 294664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28] - DL	2310	F2	121	3424	4	mg/Kg	☼	917	66 - 134

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl - DL	101		60 - 140

Lab Sample ID: 600-204767-8 MSD
Matrix: Solid
Analysis Batch: 294887

Client Sample ID: HA-5-2'
Prep Type: Total/NA
Prep Batch: 294664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28] - DL	2310	F2	119	5964	E 4 F2	mg/Kg	☼	3067	66 - 134	54	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl - DL	106		60 - 140

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-295150/1-A
Matrix: Solid
Analysis Batch: 295118

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	40.0	5.34	mg/Kg			05/26/20 11:42	10

Lab Sample ID: MB 600-295151/1-A
Matrix: Solid
Analysis Batch: 295118

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			05/27/20 02:16	1

Lab Sample ID: LCS 600-295150/2-A
Matrix: Solid
Analysis Batch: 295118

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2000	1821		mg/Kg		91	90 - 110

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-295151/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			200	199.5		mg/Kg		100	90 - 110		

Lab Sample ID: 600-204767-1 MS — **Client Sample ID: HA-1-0-"6"**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	9230		20400	31570		mg/Kg	☼	109	80 - 120		

Lab Sample ID: 600-204767-1 MSD — **Client Sample ID: HA-1-0-"6"**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9230		20400	31830		mg/Kg	☼	111	80 - 120	1	20

Lab Sample ID: 600-204767-11 MS — **Client Sample ID: HA-6-0-"6"**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	642		2350	2746		mg/Kg	☼	90	80 - 120		

Lab Sample ID: 600-204767-11 MSD — **Client Sample ID: HA-6-0-"6"**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	642		2350	2759		mg/Kg	☼	90	80 - 120	0	20

Lab Sample ID: 600-204767-23 MS — **Client Sample ID: HA-11-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	198	F1	568	600.7	F1	mg/Kg	☼	71	80 - 120		

Lab Sample ID: 600-204767-23 MSD — **Client Sample ID: HA-11-4'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	198	F1	568	687.5		mg/Kg	☼	86	80 - 120	13	20

Lab Sample ID: MB 600-295150/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 295211

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34	U	40.0	5.34	mg/Kg			05/27/20 09:43	10

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 600-295150/2-A
Matrix: Solid
Analysis Batch: 295211

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			2000	1805		mg/Kg		90	90 - 110		

Lab Sample ID: 600-204767-9 MS
Matrix: Solid
Analysis Batch: 295211

Client Sample ID: HA-5-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	340		2350	2596		mg/Kg	☼	96	80 - 120		

Lab Sample ID: 600-204767-9 MSD
Matrix: Solid
Analysis Batch: 295211

Client Sample ID: HA-5-4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	340		2350	2691		mg/Kg	☼	100	80 - 120	4	20

Lab Sample ID: MB 600-295151/1-A
Matrix: Solid
Analysis Batch: 295343

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			05/28/20 14:47	1

Lab Sample ID: LCS 600-295151/2-A
Matrix: Solid
Analysis Batch: 295343

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			200	216.4		mg/Kg		108	90 - 110		

Lab Sample ID: 600-204767-35 MS
Matrix: Solid
Analysis Batch: 295343

Client Sample ID: HA-15-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2650		5600	8570		mg/Kg	☼	106	80 - 120		

Lab Sample ID: 600-204767-35 MSD
Matrix: Solid
Analysis Batch: 295343

Client Sample ID: HA-15-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2650		5600	8744		mg/Kg	☼	109	80 - 120	2	20

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-204767-13 DU
Matrix: Solid
Analysis Batch: 294034

Client Sample ID: HA-8-0-"3"
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1			0.6		%				NC	20
Percent Solids	99.0			99.4		%				0.4	20

Lab Sample ID: 600-204767-22 DU
Matrix: Solid
Analysis Batch: 294034

Client Sample ID: HA-11-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.3			13.6		%				3	20
Percent Solids	86.7			86.4		%				0.4	20

Lab Sample ID: 600-204767-34 DU
Matrix: Solid
Analysis Batch: 294034

Client Sample ID: HA-15-0"6"
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.3			7.5		%				2	20
Percent Solids	92.7			92.5		%				0.2	20

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Prep: 5030B

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

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

Prep: 5030B

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

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

Prep: 3546

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

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

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC/MS VOA

Prep Batch: 294057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Total/NA	Solid	5030B	
600-204767-2	HA-2-0-"6"	Total/NA	Solid	5030B	
600-204767-3	HA-2-1'	Total/NA	Solid	5030B	
600-204767-4	HA-3-0-"6"	Total/NA	Solid	5030B	
600-204767-5	HA-3-1'	Total/NA	Solid	5030B	
600-204767-6	HA-4-0-"6"	Total/NA	Solid	5030B	
600-204767-7	HA-5-0-"6"	Total/NA	Solid	5030B	
600-204767-8	HA-5-2'	Total/NA	Solid	5030B	
600-204767-9	HA-5-4'	Total/NA	Solid	5030B	
600-204767-10	HA-5-5'	Total/NA	Solid	5030B	
600-204767-11	HA-6-0-"6"	Total/NA	Solid	5030B	
600-204767-12	HA-7-0-"3"	Total/NA	Solid	5030B	
600-204767-13	HA-8-0-"3"	Total/NA	Solid	5030B	
600-204767-14	HA-9-0-"6"	Total/NA	Solid	5030B	
600-204767-15	HA-9-2'	Total/NA	Solid	5030B	
600-204767-16	HA-9-4'	Total/NA	Solid	5030B	
600-204767-17	HA-9-5'	Total/NA	Solid	5030B	
600-204767-18	HA-10-0-"6"	Total/NA	Solid	5030B	

Prep Batch: 294078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-21	HA-11-0-"6"	Total/NA	Solid	5030B	
600-204767-22	HA-11-2'	Total/NA	Solid	5030B	
600-204767-23	HA-11-4'	Total/NA	Solid	5030B	
600-204767-24	HA-11-5'	Total/NA	Solid	5030B	
600-204767-25	HA-12-0-"6"	Total/NA	Solid	5030B	
600-204767-26	HA-13-0-"6"	Total/NA	Solid	5030B	
600-204767-30	HA-12-3'	Total/NA	Solid	5030B	
600-204767-31	HA-14-0-"6"	Total/NA	Solid	5030B	

Analysis Batch: 294101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Total/NA	Solid	8260B	294057
600-204767-2	HA-2-0-"6"	Total/NA	Solid	8260B	294057
600-204767-3	HA-2-1'	Total/NA	Solid	8260B	294057
600-204767-4	HA-3-0-"6"	Total/NA	Solid	8260B	294057
600-204767-5	HA-3-1'	Total/NA	Solid	8260B	294057
600-204767-6	HA-4-0-"6"	Total/NA	Solid	8260B	294057
600-204767-7	HA-5-0-"6"	Total/NA	Solid	8260B	294057
600-204767-8	HA-5-2'	Total/NA	Solid	8260B	294057
600-204767-9	HA-5-4'	Total/NA	Solid	8260B	294057
600-204767-10	HA-5-5'	Total/NA	Solid	8260B	294057
MB 600-294101/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-294101/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-294101/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 294251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-11	HA-6-0-"6"	Total/NA	Solid	8260B	294057
600-204767-12	HA-7-0-"3"	Total/NA	Solid	8260B	294057
600-204767-13	HA-8-0-"3"	Total/NA	Solid	8260B	294057

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC/MS VOA (Continued)

Analysis Batch: 294251 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-14	HA-9-0-"6"	Total/NA	Solid	8260B	294057
600-204767-15	HA-9-2'	Total/NA	Solid	8260B	294057
600-204767-16	HA-9-4'	Total/NA	Solid	8260B	294057
600-204767-17	HA-9-5'	Total/NA	Solid	8260B	294057
600-204767-18	HA-10-0-"6"	Total/NA	Solid	8260B	294057
600-204767-21	HA-11-0-"6"	Total/NA	Solid	8260B	294078
600-204767-22	HA-11-2'	Total/NA	Solid	8260B	294078
600-204767-23	HA-11-4'	Total/NA	Solid	8260B	294078
600-204767-24	HA-11-5'	Total/NA	Solid	8260B	294078
600-204767-25	HA-12-0-"6"	Total/NA	Solid	8260B	294078
600-204767-26	HA-13-0-"6"	Total/NA	Solid	8260B	294078
600-204767-30	HA-12-3'	Total/NA	Solid	8260B	294078
MB 600-294251/7	Method Blank	Total/NA	Solid	8260B	
LCS 600-294251/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-294251/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 294415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-29	HA-12-2'	Total/NA	Solid	8260B	294434
600-204767-31	HA-14-0-"6"	Total/NA	Solid	8260B	294078
600-204767-32	HA-14-2'	Total/NA	Solid	8260B	294434
600-204767-33	HA-14-3'	Total/NA	Solid	8260B	294434
600-204767-34	HA-15-0"6"	Total/NA	Solid	8260B	294434
600-204767-35	HA-15-2'	Total/NA	Solid	8260B	294434
MB 600-294415/7	Method Blank	Total/NA	Solid	8260B	
LCS 600-294415/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-294415/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 294434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-29	HA-12-2'	Total/NA	Solid	5030B	
600-204767-32	HA-14-2'	Total/NA	Solid	5030B	
600-204767-33	HA-14-3'	Total/NA	Solid	5030B	
600-204767-34	HA-15-0"6"	Total/NA	Solid	5030B	
600-204767-35	HA-15-2'	Total/NA	Solid	5030B	

Prep Batch: 294517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-19	HA-10-2'	Total/NA	Solid	5030B	
600-204767-19 - DL	HA-10-2'	Total/NA	Solid	5030B	
600-204767-20 - DL	HA-10-4'	Total/NA	Solid	5030B	
600-204767-20	HA-10-4'	Total/NA	Solid	5030B	
600-204767-27	HA-13-2'	Total/NA	Solid	5030B	
600-204767-27 - DL	HA-13-2'	Total/NA	Solid	5030B	
600-204767-28	HA-13-3'	Total/NA	Solid	5030B	
600-204767-28 - DL	HA-13-3'	Total/NA	Solid	5030B	
MB 600-294517/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-294517/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-294517/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC/MS VOA

Analysis Batch: 294520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-19	HA-10-2'	Total/NA	Solid	8260B	294517
600-204767-20	HA-10-4'	Total/NA	Solid	8260B	294517
600-204767-27	HA-13-2'	Total/NA	Solid	8260B	294517
600-204767-28	HA-13-3'	Total/NA	Solid	8260B	294517
MB 600-294517/3-A	Method Blank	Total/NA	Solid	8260B	294517
LCS 600-294517/1-A	Lab Control Sample	Total/NA	Solid	8260B	294517
LCSD 600-294517/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	294517

Analysis Batch: 294615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-19 - DL	HA-10-2'	Total/NA	Solid	8260B	294517
600-204767-20 - DL	HA-10-4'	Total/NA	Solid	8260B	294517
600-204767-27 - DL	HA-13-2'	Total/NA	Solid	8260B	294517
600-204767-28 - DL	HA-13-3'	Total/NA	Solid	8260B	294517

GC VOA

Prep Batch: 293875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Total/NA	Solid	5030B	
600-204767-2	HA-2-0-"6"	Total/NA	Solid	5030B	
600-204767-3	HA-2-1'	Total/NA	Solid	5030B	
600-204767-4	HA-3-0-"6"	Total/NA	Solid	5030B	
600-204767-5	HA-3-1'	Total/NA	Solid	5030B	
600-204767-6	HA-4-0-"6"	Total/NA	Solid	5030B	
600-204767-7	HA-5-0-"6"	Total/NA	Solid	5030B	
600-204767-8	HA-5-2'	Total/NA	Solid	5030B	
600-204767-9	HA-5-4'	Total/NA	Solid	5030B	
600-204767-10	HA-5-5'	Total/NA	Solid	5030B	
600-204767-11	HA-6-0-"6"	Total/NA	Solid	5030B	
600-204767-12	HA-7-0-"3"	Total/NA	Solid	5030B	
600-204767-13	HA-8-0-"3"	Total/NA	Solid	5030B	
600-204767-14	HA-9-0-"6"	Total/NA	Solid	5030B	
600-204767-15	HA-9-2'	Total/NA	Solid	5030B	
600-204767-16	HA-9-4'	Total/NA	Solid	5030B	
600-204767-17	HA-9-5'	Total/NA	Solid	5030B	
600-204767-18	HA-10-0-"6"	Total/NA	Solid	5030B	
600-204767-19	HA-10-2'	Total/NA	Solid	5030B	
MB 600-293875/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-293875/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-293875/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 294017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Total/NA	Solid	8015B	293875
600-204767-2	HA-2-0-"6"	Total/NA	Solid	8015B	293875
600-204767-3	HA-2-1'	Total/NA	Solid	8015B	293875
600-204767-4	HA-3-0-"6"	Total/NA	Solid	8015B	293875
600-204767-5	HA-3-1'	Total/NA	Solid	8015B	293875
600-204767-6	HA-4-0-"6"	Total/NA	Solid	8015B	293875
600-204767-7	HA-5-0-"6"	Total/NA	Solid	8015B	293875

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC VOA (Continued)

Analysis Batch: 294017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-8	HA-5-2'	Total/NA	Solid	8015B	293875
600-204767-9	HA-5-4'	Total/NA	Solid	8015B	293875
600-204767-10	HA-5-5'	Total/NA	Solid	8015B	293875
MB 600-293875/3-A	Method Blank	Total/NA	Solid	8015B	293875
LCS 600-293875/1-A	Lab Control Sample	Total/NA	Solid	8015B	293875
LCSD 600-293875/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	293875

Prep Batch: 294054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-20	HA-10-4'	Total/NA	Solid	5030B	
600-204767-21	HA-11-0-"6"	Total/NA	Solid	5030B	
600-204767-22	HA-11-2'	Total/NA	Solid	5030B	
600-204767-23	HA-11-4'	Total/NA	Solid	5030B	
600-204767-24	HA-11-5'	Total/NA	Solid	5030B	
600-204767-25	HA-12-0-"6"	Total/NA	Solid	5030B	
600-204767-26	HA-13-0-"6"	Total/NA	Solid	5030B	
600-204767-27	HA-13-2'	Total/NA	Solid	5030B	
600-204767-28	HA-13-3'	Total/NA	Solid	5030B	
600-204767-29	HA-12-2'	Total/NA	Solid	5030B	
600-204767-30	HA-12-3'	Total/NA	Solid	5030B	
600-204767-31	HA-14-0-"6"	Total/NA	Solid	5030B	
600-204767-32	HA-14-2'	Total/NA	Solid	5030B	
600-204767-33	HA-14-3'	Total/NA	Solid	5030B	
600-204767-34	HA-15-0"6"	Total/NA	Solid	5030B	
600-204767-35	HA-15-2'	Total/NA	Solid	5030B	
MB 600-294054/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-294054/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-294054/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 294103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-11	HA-6-0-"6"	Total/NA	Solid	8015B	293875
600-204767-12	HA-7-0-"3"	Total/NA	Solid	8015B	293875
600-204767-14	HA-9-0-"6"	Total/NA	Solid	8015B	293875
600-204767-16	HA-9-4'	Total/NA	Solid	8015B	293875
600-204767-21	HA-11-0-"6"	Total/NA	Solid	8015B	294054
600-204767-23	HA-11-4'	Total/NA	Solid	8015B	294054
600-204767-24	HA-11-5'	Total/NA	Solid	8015B	294054
600-204767-25	HA-12-0-"6"	Total/NA	Solid	8015B	294054
600-204767-26	HA-13-0-"6"	Total/NA	Solid	8015B	294054
600-204767-27	HA-13-2'	Total/NA	Solid	8015B	294054
MB 600-294054/3-A	Method Blank	Total/NA	Solid	8015B	294054
LCS 600-294054/1-A	Lab Control Sample	Total/NA	Solid	8015B	294054
LCSD 600-294054/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	294054

Analysis Batch: 294196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-13	HA-8-0-"3"	Total/NA	Solid	8015B	293875
600-204767-15	HA-9-2'	Total/NA	Solid	8015B	293875
600-204767-17	HA-9-5'	Total/NA	Solid	8015B	293875
600-204767-18	HA-10-0-"6"	Total/NA	Solid	8015B	293875

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC VOA (Continued)

Analysis Batch: 294196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-19	HA-10-2'	Total/NA	Solid	8015B	293875
600-204767-20	HA-10-4'	Total/NA	Solid	8015B	294054
600-204767-22	HA-11-2'	Total/NA	Solid	8015B	294054
600-204767-28	HA-13-3'	Total/NA	Solid	8015B	294054
600-204767-29	HA-12-2'	Total/NA	Solid	8015B	294054
600-204767-30	HA-12-3'	Total/NA	Solid	8015B	294054

Analysis Batch: 294281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-31	HA-14-0-"6"	Total/NA	Solid	8015B	294054
600-204767-32	HA-14-2'	Total/NA	Solid	8015B	294054
600-204767-33	HA-14-3'	Total/NA	Solid	8015B	294054
600-204767-34	HA-15-0"6"	Total/NA	Solid	8015B	294054
600-204767-35	HA-15-2'	Total/NA	Solid	8015B	294054
MB 600-294281/7	Method Blank	Total/NA	Solid	8015B	
LCS 600-294281/5	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 600-294281/6	Lab Control Sample Dup	Total/NA	Solid	8015B	

GC Semi VOA

Analysis Batch: 294371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-294384/1-A	Method Blank	Total/NA	Solid	8015D	294384
LCS 600-294384/2-A	Lab Control Sample	Total/NA	Solid	8015D	294384

Prep Batch: 294384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1 - DL	HA-1-0-"6"	Total/NA	Solid	3546	
600-204767-2	HA-2-0-"6"	Total/NA	Solid	3546	
600-204767-3	HA-2-1'	Total/NA	Solid	3546	
600-204767-4 - DL	HA-3-0-"6"	Total/NA	Solid	3546	
600-204767-5 - DL	HA-3-1'	Total/NA	Solid	3546	
600-204767-6	HA-4-0-"6"	Total/NA	Solid	3546	
600-204767-7 - DL	HA-5-0-"6"	Total/NA	Solid	3546	
MB 600-294384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294384/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 294461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1 - DL	HA-1-0-"6"	Total/NA	Solid	8015D	294384
600-204767-2	HA-2-0-"6"	Total/NA	Solid	8015D	294384
600-204767-3	HA-2-1'	Total/NA	Solid	8015D	294384
600-204767-4 - DL	HA-3-0-"6"	Total/NA	Solid	8015D	294384
600-204767-5 - DL	HA-3-1'	Total/NA	Solid	8015D	294384
600-204767-6	HA-4-0-"6"	Total/NA	Solid	8015D	294384
600-204767-7 - DL	HA-5-0-"6"	Total/NA	Solid	8015D	294384
MB 600-294384/1-A	Method Blank	Total/NA	Solid	8015D	294384
LCS 600-294384/2-A	Lab Control Sample	Total/NA	Solid	8015D	294384

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC Semi VOA

Prep Batch: 294664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-8 - DL	HA-5-2'	Total/NA	Solid	3546	
600-204767-9 - DL	HA-5-4'	Total/NA	Solid	3546	
600-204767-10	HA-5-5'	Total/NA	Solid	3546	
600-204767-11	HA-6-0-"6"	Total/NA	Solid	3546	
600-204767-12 - DL	HA-7-0-"3"	Total/NA	Solid	3546	
600-204767-13	HA-8-0-"3"	Total/NA	Solid	3546	
600-204767-14 - DL	HA-9-0-"6"	Total/NA	Solid	3546	
600-204767-15 - DL	HA-9-2'	Total/NA	Solid	3546	
600-204767-16	HA-9-4'	Total/NA	Solid	3546	
600-204767-17 - DL	HA-9-5'	Total/NA	Solid	3546	
600-204767-18 - DL	HA-10-0-"6"	Total/NA	Solid	3546	
600-204767-19 - DL	HA-10-2'	Total/NA	Solid	3546	
600-204767-20 - DL	HA-10-4'	Total/NA	Solid	3546	
600-204767-21 - DL	HA-11-0-"6"	Total/NA	Solid	3546	
600-204767-22	HA-11-2'	Total/NA	Solid	3546	
600-204767-23	HA-11-4'	Total/NA	Solid	3546	
600-204767-24	HA-11-5'	Total/NA	Solid	3546	
MB 600-294664/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294664/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204767-8 MS - DL	HA-5-2'	Total/NA	Solid	3546	
600-204767-8 MSD - DL	HA-5-2'	Total/NA	Solid	3546	

Prep Batch: 294745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-25 - DL	HA-12-0-"6"	Total/NA	Solid	3546	
600-204767-26 - DL	HA-13-0-"6"	Total/NA	Solid	3546	
600-204767-27 - DL	HA-13-2'	Total/NA	Solid	3546	
600-204767-28 - DL	HA-13-3'	Total/NA	Solid	3546	
600-204767-29 - DL	HA-12-2'	Total/NA	Solid	3546	
600-204767-30	HA-12-3'	Total/NA	Solid	3546	
600-204767-31 - DL	HA-14-0-"6"	Total/NA	Solid	3546	
600-204767-32 - DL	HA-14-2'	Total/NA	Solid	3546	
600-204767-33 - DL	HA-14-3'	Total/NA	Solid	3546	
600-204767-34 - DL	HA-15-0"6"	Total/NA	Solid	3546	
600-204767-35 - DL	HA-15-2'	Total/NA	Solid	3546	
MB 600-294745/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-294745/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-204767-30 MS	HA-12-3'	Total/NA	Solid	3546	
600-204767-30 MSD	HA-12-3'	Total/NA	Solid	3546	

Analysis Batch: 294871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-20 - DL	HA-10-4'	Total/NA	Solid	8015D	294664
600-204767-24	HA-11-5'	Total/NA	Solid	8015D	294664
600-204767-25 - DL	HA-12-0-"6"	Total/NA	Solid	8015D	294745
600-204767-26 - DL	HA-13-0-"6"	Total/NA	Solid	8015D	294745
600-204767-27 - DL	HA-13-2'	Total/NA	Solid	8015D	294745
600-204767-28 - DL	HA-13-3'	Total/NA	Solid	8015D	294745
600-204767-29 - DL	HA-12-2'	Total/NA	Solid	8015D	294745
600-204767-30	HA-12-3'	Total/NA	Solid	8015D	294745
600-204767-31 - DL	HA-14-0-"6"	Total/NA	Solid	8015D	294745

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

GC Semi VOA (Continued)

Analysis Batch: 294871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-32 - DL	HA-14-2'	Total/NA	Solid	8015D	294745
600-204767-33 - DL	HA-14-3'	Total/NA	Solid	8015D	294745
600-204767-34 - DL	HA-15-0"6"	Total/NA	Solid	8015D	294745
600-204767-35 - DL	HA-15-2'	Total/NA	Solid	8015D	294745
MB 600-294745/1-A	Method Blank	Total/NA	Solid	8015D	294745
LCS 600-294745/2-A	Lab Control Sample	Total/NA	Solid	8015D	294745
600-204767-30 MS	HA-12-3'	Total/NA	Solid	8015D	294745
600-204767-30 MSD	HA-12-3'	Total/NA	Solid	8015D	294745

Analysis Batch: 294887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-8 - DL	HA-5-2'	Total/NA	Solid	8015D	294664
600-204767-9 - DL	HA-5-4'	Total/NA	Solid	8015D	294664
600-204767-10	HA-5-5'	Total/NA	Solid	8015D	294664
600-204767-11	HA-6-0-"6"	Total/NA	Solid	8015D	294664
600-204767-12 - DL	HA-7-0-"3"	Total/NA	Solid	8015D	294664
600-204767-13	HA-8-0-"3"	Total/NA	Solid	8015D	294664
600-204767-14 - DL	HA-9-0-"6"	Total/NA	Solid	8015D	294664
600-204767-15 - DL	HA-9-2'	Total/NA	Solid	8015D	294664
600-204767-16	HA-9-4'	Total/NA	Solid	8015D	294664
600-204767-17 - DL	HA-9-5'	Total/NA	Solid	8015D	294664
600-204767-18 - DL	HA-10-0-"6"	Total/NA	Solid	8015D	294664
600-204767-19 - DL	HA-10-2'	Total/NA	Solid	8015D	294664
600-204767-21 - DL	HA-11-0-"6"	Total/NA	Solid	8015D	294664
600-204767-22	HA-11-2'	Total/NA	Solid	8015D	294664
600-204767-23	HA-11-4'	Total/NA	Solid	8015D	294664
MB 600-294664/1-A	Method Blank	Total/NA	Solid	8015D	294664
LCS 600-294664/2-A	Lab Control Sample	Total/NA	Solid	8015D	294664
600-204767-8 MS - DL	HA-5-2'	Total/NA	Solid	8015D	294664
600-204767-8 MSD - DL	HA-5-2'	Total/NA	Solid	8015D	294664

HPLC/IC

Analysis Batch: 295118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Soluble	Solid	300.0	295150
600-204767-2	HA-2-0-"6"	Soluble	Solid	300.0	295150
600-204767-3	HA-2-1'	Soluble	Solid	300.0	295150
600-204767-4	HA-3-0-"6"	Soluble	Solid	300.0	295150
600-204767-5	HA-3-1'	Soluble	Solid	300.0	295150
600-204767-6	HA-4-0-"6"	Soluble	Solid	300.0	295150
600-204767-7	HA-5-0-"6"	Soluble	Solid	300.0	295150
600-204767-8	HA-5-2'	Soluble	Solid	300.0	295150
600-204767-9	HA-5-4'	Soluble	Solid	300.0	295150
600-204767-10	HA-5-5'	Soluble	Solid	300.0	295150
600-204767-11	HA-6-0-"6"	Soluble	Solid	300.0	295150
600-204767-12	HA-7-0-"3"	Soluble	Solid	300.0	295150
600-204767-13	HA-8-0-"3"	Soluble	Solid	300.0	295150
600-204767-14	HA-9-0-"6"	Soluble	Solid	300.0	295150
600-204767-15	HA-9-2'	Soluble	Solid	300.0	295150
600-204767-16	HA-9-4'	Soluble	Solid	300.0	295150

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

HPLC/IC (Continued)

Analysis Batch: 295118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-17	HA-9-5'	Soluble	Solid	300.0	295150
600-204767-18	HA-10-0-"6"	Soluble	Solid	300.0	295150
600-204767-19	HA-10-2'	Soluble	Solid	300.0	295150
600-204767-20	HA-10-4'	Soluble	Solid	300.0	295150
600-204767-21	HA-11-0-"6"	Soluble	Solid	300.0	295151
600-204767-22	HA-11-2'	Soluble	Solid	300.0	295151
600-204767-23	HA-11-4'	Soluble	Solid	300.0	295151
600-204767-24	HA-11-5'	Soluble	Solid	300.0	295151
600-204767-25	HA-12-0-"6"	Soluble	Solid	300.0	295151
600-204767-26	HA-13-0-"6"	Soluble	Solid	300.0	295151
600-204767-27	HA-13-2'	Soluble	Solid	300.0	295151
600-204767-28	HA-13-3'	Soluble	Solid	300.0	295151
MB 600-295150/1-A	Method Blank	Soluble	Solid	300.0	295150
MB 600-295151/1-A	Method Blank	Soluble	Solid	300.0	295151
LCS 600-295150/2-A	Lab Control Sample	Soluble	Solid	300.0	295150
LCS 600-295151/2-A	Lab Control Sample	Soluble	Solid	300.0	295151
600-204767-1 MS	HA-1-0-"6"	Soluble	Solid	300.0	295150
600-204767-1 MSD	HA-1-0-"6"	Soluble	Solid	300.0	295150
600-204767-11 MS	HA-6-0-"6"	Soluble	Solid	300.0	295150
600-204767-11 MSD	HA-6-0-"6"	Soluble	Solid	300.0	295150
600-204767-23 MS	HA-11-4'	Soluble	Solid	300.0	295151
600-204767-23 MSD	HA-11-4'	Soluble	Solid	300.0	295151

Leach Batch: 295150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Soluble	Solid	DI Leach	
600-204767-2	HA-2-0-"6"	Soluble	Solid	DI Leach	
600-204767-3	HA-2-1'	Soluble	Solid	DI Leach	
600-204767-4	HA-3-0-"6"	Soluble	Solid	DI Leach	
600-204767-5	HA-3-1'	Soluble	Solid	DI Leach	
600-204767-6	HA-4-0-"6"	Soluble	Solid	DI Leach	
600-204767-7	HA-5-0-"6"	Soluble	Solid	DI Leach	
600-204767-8	HA-5-2'	Soluble	Solid	DI Leach	
600-204767-9	HA-5-4'	Soluble	Solid	DI Leach	
600-204767-10	HA-5-5'	Soluble	Solid	DI Leach	
600-204767-11	HA-6-0-"6"	Soluble	Solid	DI Leach	
600-204767-12	HA-7-0-"3"	Soluble	Solid	DI Leach	
600-204767-13	HA-8-0-"3"	Soluble	Solid	DI Leach	
600-204767-14	HA-9-0-"6"	Soluble	Solid	DI Leach	
600-204767-15	HA-9-2'	Soluble	Solid	DI Leach	
600-204767-16	HA-9-4'	Soluble	Solid	DI Leach	
600-204767-17	HA-9-5'	Soluble	Solid	DI Leach	
600-204767-18	HA-10-0-"6"	Soluble	Solid	DI Leach	
600-204767-19	HA-10-2'	Soluble	Solid	DI Leach	
600-204767-20	HA-10-4'	Soluble	Solid	DI Leach	
MB 600-295150/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-295150/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-204767-1 MS	HA-1-0-"6"	Soluble	Solid	DI Leach	
600-204767-1 MSD	HA-1-0-"6"	Soluble	Solid	DI Leach	
600-204767-9 MS	HA-5-4'	Soluble	Solid	DI Leach	
600-204767-9 MSD	HA-5-4'	Soluble	Solid	DI Leach	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

HPLC/IC (Continued)

Leach Batch: 295150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-11 MS	HA-6-0-"6"	Soluble	Solid	DI Leach	
600-204767-11 MSD	HA-6-0-"6"	Soluble	Solid	DI Leach	

Leach Batch: 295151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-21	HA-11-0-"6"	Soluble	Solid	DI Leach	
600-204767-22	HA-11-2'	Soluble	Solid	DI Leach	
600-204767-23	HA-11-4'	Soluble	Solid	DI Leach	
600-204767-24	HA-11-5'	Soluble	Solid	DI Leach	
600-204767-25	HA-12-0-"6"	Soluble	Solid	DI Leach	
600-204767-26	HA-13-0-"6"	Soluble	Solid	DI Leach	
600-204767-27	HA-13-2'	Soluble	Solid	DI Leach	
600-204767-28	HA-13-3'	Soluble	Solid	DI Leach	
600-204767-29	HA-12-2'	Soluble	Solid	DI Leach	
600-204767-30	HA-12-3'	Soluble	Solid	DI Leach	
600-204767-31	HA-14-0-"6"	Soluble	Solid	DI Leach	
600-204767-32	HA-14-2'	Soluble	Solid	DI Leach	
600-204767-33	HA-14-3'	Soluble	Solid	DI Leach	
600-204767-34	HA-15-0"6"	Soluble	Solid	DI Leach	
600-204767-35	HA-15-2'	Soluble	Solid	DI Leach	
MB 600-295151/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-295151/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-204767-23 MS	HA-11-4'	Soluble	Solid	DI Leach	
600-204767-23 MSD	HA-11-4'	Soluble	Solid	DI Leach	
600-204767-35 MS	HA-15-2'	Soluble	Solid	DI Leach	
600-204767-35 MSD	HA-15-2'	Soluble	Solid	DI Leach	

Analysis Batch: 295211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-29	HA-12-2'	Soluble	Solid	300.0	295151
600-204767-30	HA-12-3'	Soluble	Solid	300.0	295151
MB 600-295150/1-A	Method Blank	Soluble	Solid	300.0	295150
LCS 600-295150/2-A	Lab Control Sample	Soluble	Solid	300.0	295150
600-204767-9 MS	HA-5-4'	Soluble	Solid	300.0	295150
600-204767-9 MSD	HA-5-4'	Soluble	Solid	300.0	295150

Analysis Batch: 295343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-31	HA-14-0-"6"	Soluble	Solid	300.0	295151
600-204767-32	HA-14-2'	Soluble	Solid	300.0	295151
600-204767-33	HA-14-3'	Soluble	Solid	300.0	295151
600-204767-34	HA-15-0"6"	Soluble	Solid	300.0	295151
600-204767-35	HA-15-2'	Soluble	Solid	300.0	295151
MB 600-295151/1-A	Method Blank	Soluble	Solid	300.0	295151
LCS 600-295151/2-A	Lab Control Sample	Soluble	Solid	300.0	295151
600-204767-35 MS	HA-15-2'	Soluble	Solid	300.0	295151
600-204767-35 MSD	HA-15-2'	Soluble	Solid	300.0	295151

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

General Chemistry

Analysis Batch: 294034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204767-1	HA-1-0-"6"	Total/NA	Solid	2540B	
600-204767-2	HA-2-0-"6"	Total/NA	Solid	2540B	
600-204767-3	HA-2-1'	Total/NA	Solid	2540B	
600-204767-4	HA-3-0-"6"	Total/NA	Solid	2540B	
600-204767-5	HA-3-1'	Total/NA	Solid	2540B	
600-204767-6	HA-4-0-"6"	Total/NA	Solid	2540B	
600-204767-7	HA-5-0-"6"	Total/NA	Solid	2540B	
600-204767-8	HA-5-2'	Total/NA	Solid	2540B	
600-204767-9	HA-5-4'	Total/NA	Solid	2540B	
600-204767-10	HA-5-5'	Total/NA	Solid	2540B	
600-204767-11	HA-6-0-"6"	Total/NA	Solid	2540B	
600-204767-12	HA-7-0-"3"	Total/NA	Solid	2540B	
600-204767-13	HA-8-0-"3"	Total/NA	Solid	2540B	
600-204767-14	HA-9-0-"6"	Total/NA	Solid	2540B	
600-204767-15	HA-9-2'	Total/NA	Solid	2540B	
600-204767-16	HA-9-4'	Total/NA	Solid	2540B	
600-204767-17	HA-9-5'	Total/NA	Solid	2540B	
600-204767-18	HA-10-0-"6"	Total/NA	Solid	2540B	
600-204767-19	HA-10-2'	Total/NA	Solid	2540B	
600-204767-20	HA-10-4'	Total/NA	Solid	2540B	
600-204767-21	HA-11-0-"6"	Total/NA	Solid	2540B	
600-204767-22	HA-11-2'	Total/NA	Solid	2540B	
600-204767-23	HA-11-4'	Total/NA	Solid	2540B	
600-204767-24	HA-11-5'	Total/NA	Solid	2540B	
600-204767-25	HA-12-0-"6"	Total/NA	Solid	2540B	
600-204767-26	HA-13-0-"6"	Total/NA	Solid	2540B	
600-204767-27	HA-13-2'	Total/NA	Solid	2540B	
600-204767-28	HA-13-3'	Total/NA	Solid	2540B	
600-204767-29	HA-12-2'	Total/NA	Solid	2540B	
600-204767-30	HA-12-3'	Total/NA	Solid	2540B	
600-204767-31	HA-14-0-"6"	Total/NA	Solid	2540B	
600-204767-32	HA-14-2'	Total/NA	Solid	2540B	
600-204767-33	HA-14-3'	Total/NA	Solid	2540B	
600-204767-34	HA-15-0"6"	Total/NA	Solid	2540B	
600-204767-35	HA-15-2'	Total/NA	Solid	2540B	
600-204767-13 DU	HA-8-0-"3"	Total/NA	Solid	2540B	
600-204767-22 DU	HA-11-2'	Total/NA	Solid	2540B	
600-204767-34 DU	HA-15-0"6"	Total/NA	Solid	2540B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-1-0-"6"
Date Collected: 05/04/20 10:38
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-1-0-"6"
Date Collected: 05/04/20 10:38
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-1
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 15:23	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 09:57	WS1	TAL HOU
Total/NA	Prep	3546	DL		294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	10	294461	05/14/20 09:28	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295118	05/26/20 16:44	W1N	TAL HOU

Client Sample ID: HA-2-0-"6"
Date Collected: 05/04/20 10:56
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-2-0-"6"
Date Collected: 05/04/20 10:56
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-2
Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 15:46	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 10:20	WS1	TAL HOU
Total/NA	Prep	3546			294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294461	05/14/20 04:32	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295118	05/26/20 17:45	W1N	TAL HOU

Client Sample ID: HA-2-1'
Date Collected: 05/04/20 10:59
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-2-1'
Date Collected: 05/04/20 10:59
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-3
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 16:09	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 10:43	WS1	TAL HOU
Total/NA	Prep	3546			294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294461	05/14/20 05:07	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 18:06	W1N	TAL HOU

Client Sample ID: HA-3-0-"6"
Date Collected: 05/04/20 11:14
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-3-0-"6"
Date Collected: 05/04/20 11:14
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-4
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 16:31	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 11:06	WS1	TAL HOU
Total/NA	Prep	3546	DL		294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	5	294461	05/14/20 05:41	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295118	05/26/20 18:26	W1N	TAL HOU

Client Sample ID: HA-3-1'
Date Collected: 05/04/20 11:16
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-3-1'
Date Collected: 05/04/20 11:16
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-5
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 16:54	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 11:30	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-3-1'
Lab Sample ID: 600-204767-5
Date Collected: 05/04/20 11:16
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	20	294461	05/14/20 06:15	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 18:46	W1N	TAL HOU

Client Sample ID: HA-4-0-"6"
Lab Sample ID: 600-204767-6
Date Collected: 05/04/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-4-0-"6"
Lab Sample ID: 600-204767-6
Date Collected: 05/04/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 17:17	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 11:53	WS1	TAL HOU
Total/NA	Prep	3546			294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294461	05/14/20 06:56	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295118	05/26/20 19:07	W1N	TAL HOU

Client Sample ID: HA-5-0-"6"
Lab Sample ID: 600-204767-7
Date Collected: 05/04/20 11:58
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-5-0-"6"
Lab Sample ID: 600-204767-7
Date Collected: 05/04/20 11:58
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 17:39	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 12:17	WS1	TAL HOU
Total/NA	Prep	3546	DL		294384	05/13/20 09:15	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	100	294461	05/14/20 08:19	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295118	05/26/20 20:08	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-5-2'
Date Collected: 05/04/20 12:06
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-5-2'
Date Collected: 05/04/20 12:06
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-8
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 18:02	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 12:40	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	10	294887	05/21/20 08:28	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 20:28	W1N	TAL HOU

Client Sample ID: HA-5-4'
Date Collected: 05/04/20 12:10
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-5-4'
Date Collected: 05/04/20 12:10
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-9
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 18:24	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 13:03	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	20	294887	05/21/20 10:12	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 20:49	W1N	TAL HOU

Client Sample ID: HA-5-5'
Date Collected: 05/04/20 12:19
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-5-5'
Date Collected: 05/04/20 12:19
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-10
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294101	05/08/20 18:47	WS1	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294017	05/07/20 13:27	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/21/20 16:26	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 21:09	W1N	TAL HOU

Client Sample ID: HA-6-0-"6"
Date Collected: 05/04/20 12:37
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-6-0-"6"
Date Collected: 05/04/20 12:37
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-11
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 16:32	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 17:51	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/20/20 19:59	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		20	295118	05/26/20 21:30	W1N	TAL HOU

Client Sample ID: HA-7-0-"3"
Date Collected: 05/04/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-7-0-"3"
Date Collected: 05/04/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-12
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 16:56	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 18:16	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-7-0-"3"
Date Collected: 05/04/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-12
Matrix: Solid
Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	2	294887	05/21/20 10:47	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/26/20 22:31	W1N	TAL HOU

Client Sample ID: HA-8-0-"3"
Date Collected: 05/04/20 12:45
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-8-0-"3"
Date Collected: 05/04/20 12:45
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-13
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 17:20	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294196	05/09/20 17:36	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/20/20 21:08	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		200	295118	05/26/20 22:51	W1N	TAL HOU

Client Sample ID: HA-9-0-"6"
Date Collected: 05/04/20 13:44
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-9-0-"6"
Date Collected: 05/04/20 13:44
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-14
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 17:44	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 17:02	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294887	05/21/20 11:21	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295118	05/26/20 23:12	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-9-2'
Date Collected: 05/04/20 13:50
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-9-2'
Date Collected: 05/04/20 13:50
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-15
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 18:08	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294196	05/09/20 18:01	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	25	294887	05/21/20 11:56	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295118	05/27/20 00:13	W1N	TAL HOU

Client Sample ID: HA-9-4'
Date Collected: 05/04/20 13:55
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-9-4'
Date Collected: 05/04/20 13:55
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-16
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 18:32	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 07:02	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 17:27	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/20/20 23:26	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/27/20 00:33	W1N	TAL HOU

Client Sample ID: HA-9-5'
Date Collected: 05/04/20 14:00
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-9-5'
Date Collected: 05/04/20 14:00
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-17
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 18:56	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 11:06	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294196	05/09/20 18:25	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	5	294887	05/21/20 12:31	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295118	05/27/20 00:54	W1N	TAL HOU

Client Sample ID: HA-10-0-"6"
Date Collected: 05/05/20 09:42
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-10-0-"6"
Date Collected: 05/05/20 09:42
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-18
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294057	05/07/20 11:53	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 19:20	KLV	TAL HOU
Total/NA	Prep	5030B			293875	05/07/20 11:06	WS1	TAL HOU
Total/NA	Analysis	8015B		10	294196	05/09/20 18:49	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294887	05/21/20 13:06	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295118	05/27/20 01:14	W1N	TAL HOU

Client Sample ID: HA-10-2'
Date Collected: 05/05/20 09:53
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-10-2'
Date Collected: 05/05/20 09:53
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-19
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294520	05/14/20 16:48	KLV	TAL HOU
Total/NA	Prep	5030B	DL		294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	10	294615	05/15/20 16:38	KLV	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-10-2'
Date Collected: 05/05/20 09:53
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-19
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			293875	05/07/20 11:06	WS1	TAL HOU
Total/NA	Analysis	8015B		500	294196	05/09/20 19:13	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	20	294887	05/21/20 13:41	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295118	05/27/20 01:35	W1N	TAL HOU

Client Sample ID: HA-10-4'
Date Collected: 05/05/20 09:59
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-10-4'
Date Collected: 05/05/20 09:59
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-20
Matrix: Solid
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294520	05/14/20 17:12	KLV	TAL HOU
Total/NA	Prep	5030B	DL		294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	10	294615	05/15/20 17:02	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		500	294196	05/09/20 19:37	WS1	TAL HOU
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	20	294871	05/21/20 13:41	RJV	TAL HOU
Soluble	Leach	DI Leach			295150	05/26/20 11:10	AAZ	TAL HOU
Soluble	Analysis	300.0		20	295118	05/27/20 01:55	W1N	TAL HOU

Client Sample ID: HA-11-0-"6"
Date Collected: 05/05/20 10:16
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-11-0-"6"
Date Collected: 05/05/20 10:16
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-21
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 19:44	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294103	05/08/20 10:15	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-11-0-"6"
Date Collected: 05/05/20 10:16
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-21
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	100	294887	05/21/20 17:37	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295118	05/27/20 02:56	W1N	TAL HOU

Client Sample ID: HA-11-2'
Date Collected: 05/05/20 10:20
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-11-2'
Date Collected: 05/05/20 10:20
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-22
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 20:08	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294196	05/09/20 20:02	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/21/20 02:52	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295118	05/27/20 03:17	W1N	TAL HOU

Client Sample ID: HA-11-4'
Date Collected: 05/05/20 10:35
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-11-4'
Date Collected: 05/05/20 10:35
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-23
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 20:32	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 11:02	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294887	05/21/20 15:51	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		5	295118	05/27/20 04:18	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-11-5'
Date Collected: 05/05/20 10:45
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-11-5'
Date Collected: 05/05/20 10:45
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-24
Matrix: Solid
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 20:56	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294103	05/08/20 11:26	WS1	TAL HOU
Total/NA	Prep	3546			294664	05/18/20 08:45	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294871	05/20/20 23:26	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295118	05/27/20 05:19	W1N	TAL HOU

Client Sample ID: HA-12-0-"6"
Date Collected: 05/05/20 11:20
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-12-0-"6"
Date Collected: 05/05/20 11:20
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-25
Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 21:19	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		20	294103	05/08/20 11:50	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	25	294871	05/21/20 08:28	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295118	05/27/20 05:40	W1N	TAL HOU

Client Sample ID: HA-13-0-"6"
Date Collected: 05/05/20 11:37
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

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

Lab Sample ID: 600-204767-26
Date Collected: 05/05/20 11:37
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 21:43	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		20	294103	05/08/20 14:17	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	25	294871	05/21/20 09:03	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295118	05/27/20 06:00	W1N	TAL HOU

Client Sample ID: HA-13-2'

Lab Sample ID: 600-204767-27
Date Collected: 05/05/20 11:42
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-13-2'

Lab Sample ID: 600-204767-27
Date Collected: 05/05/20 11:42
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294520	05/14/20 17:36	KLV	TAL HOU
Total/NA	Prep	5030B	DL		294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	10	294615	05/15/20 17:26	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294103	05/08/20 14:41	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294871	05/21/20 09:37	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295118	05/27/20 06:20	W1N	TAL HOU

Client Sample ID: HA-13-3'

Lab Sample ID: 600-204767-28
Date Collected: 05/05/20 11:50
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-13-3'

Lab Sample ID: 600-204767-28
Date Collected: 05/05/20 11:50
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294520	05/14/20 18:01	KLV	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-13-3'
Date Collected: 05/05/20 11:50
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-28
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B	DL		294517	05/14/20 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	10	294615	05/15/20 17:49	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1000	294196	05/09/20 20:26	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294871	05/21/20 10:12	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295118	05/27/20 06:41	W1N	TAL HOU

Client Sample ID: HA-12-2'
Date Collected: 05/05/20 11:55
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:26	AAZ	TAL HOU

Client Sample ID: HA-12-2'
Date Collected: 05/05/20 11:55
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-29
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294434	05/13/20 12:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 15:44	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294196	05/09/20 20:50	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	10	294871	05/21/20 10:47	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295211	05/27/20 15:12	W1N	TAL HOU

Client Sample ID: HA-12-3'
Date Collected: 05/05/20 12:00
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-12-3'
Date Collected: 05/05/20 12:00
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-30
Matrix: Solid
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294251	05/11/20 22:54	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		5	294196	05/09/20 21:15	WS1	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-12-3'
Lab Sample ID: 600-204767-30
Date Collected: 05/05/20 12:00
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D		1	294871	05/20/20 18:14	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		2	295211	05/27/20 15:32	W1N	TAL HOU

Client Sample ID: HA-14-0-"6"
Lab Sample ID: 600-204767-31
Date Collected: 05/05/20 12:10
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-14-0-"6"
Lab Sample ID: 600-204767-31
Date Collected: 05/05/20 12:10
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294078	05/07/20 13:34	WS1	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 16:08	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294281	05/12/20 10:23	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294871	05/21/20 11:21	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295343	05/28/20 15:28	W1N	TAL HOU

Client Sample ID: HA-14-2'
Lab Sample ID: 600-204767-32
Date Collected: 05/05/20 12:20
Matrix: Solid
Date Received: 05/06/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Client Sample ID: HA-14-2'
Lab Sample ID: 600-204767-32
Date Collected: 05/05/20 12:20
Matrix: Solid
Date Received: 05/06/20 10:45
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294434	05/13/20 17:20	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 19:00	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294281	05/12/20 14:15	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	5	294871	05/20/20 21:08	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		25	295343	05/28/20 15:49	W1N	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-14-3'
Date Collected: 05/05/20 12:26
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-14-3'
Date Collected: 05/05/20 12:26
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-33
Matrix: Solid
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294434	05/13/20 17:20	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 19:24	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		1	294281	05/12/20 14:40	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	10	294871	05/21/20 11:56	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		10	295343	05/28/20 16:09	W1N	TAL HOU

Client Sample ID: HA-15-0"6"
Date Collected: 05/05/20 12:32
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 09:19	AAZ	TAL HOU

Client Sample ID: HA-15-0"6"
Date Collected: 05/05/20 12:32
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-34
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294434	05/13/20 18:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 19:48	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		10	294281	05/12/20 13:14	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294871	05/21/20 12:31	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		100	295343	05/28/20 17:10	W1N	TAL HOU

Client Sample ID: HA-15-2'
Date Collected: 05/05/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	294034	05/07/20 08:53	AAZ	TAL HOU

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Client Sample ID: HA-15-2'

Date Collected: 05/05/20 12:40
Date Received: 05/06/20 10:45

Lab Sample ID: 600-204767-35

Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			294434	05/13/20 18:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	294415	05/13/20 20:12	KLV	TAL HOU
Total/NA	Prep	5030B			294054	05/07/20 11:46	WS1	TAL HOU
Total/NA	Analysis	8015B		100	294281	05/12/20 12:01	WS1	TAL HOU
Total/NA	Prep	3546	DL		294745	05/19/20 09:57	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	294871	05/21/20 13:06	RJV	TAL HOU
Soluble	Leach	DI Leach			295151	05/26/20 11:12	AAZ	TAL HOU
Soluble	Analysis	300.0		50	295343	05/28/20 17:31	W1N	TAL HOU

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron SCB 23-14

Job ID: 600-204767-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

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

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Justin Mixon	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76722-20637.5
Client Contact: Sarah Johnson	Phone: 432-296-4547	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 1 of 4
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #: .			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron SCB 23-14	Project #: 60012284			
Site: 300 51439	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DRO/ ORO C10-C28/ C28-C36	8015B_GRO- C6-C10	8260B- BTEX	Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
HA-1-0'-6'	5-4-20	1038	G	Solid			X	X	X	X	X	2	
HA-2-0'-6'		1056		Solid									
HA-2-1'		1059		Solid									
HA-3-0'-6'		1114		Solid									
HA-3-1'		1116		Solid									
HA-4-0'-6'		1137		Solid									
HA-5-0'-6'		1158		Solid									
HA-5-2'		1206		Solid									
HA-5-4'		1210		Solid									
HA-5-5'		1219		Solid									
HA-6-0'-6'		1237		Solid									

600-204767 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-5-20 1445			5-5-20 1641	
2		5-5-20 1641			5/6/20 1045	ETA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Justin Kilen	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76722-20637.5
Client Contact: Sarah Johnson	Phone: 432-296-9547	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 2 of 4
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron SCB 23-14	Project #: 60012284			
Site: ~~Loving, NM~~ 30051439	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DRO/ ORO C10-C28/ C28-C36	8015B_GRO- C6-C10	8260B- BTEX	Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
HA-7-0'-3'	5-4-20	1240	G	Solid			X	X	X	X	X	2	
HA-8-0'-3'		1245		Solid									
HA-9-0'-6'		1344		Solid									
HA-9-2'		1350		Solid									
HA-9-4'		1355		Solid									
HA-9-5'		1400		Solid									
HA-10-0'-6'	5-5-20	942		Solid									
HA-10-2'		953		Solid									
HA-10-4'		959		Solid									
HA-11-0'-6'		1016		Solid									
HA-11-2'		1020		Solid									

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-5-20 1445			5-5-20 1641	
2		5-5-20 1641			5/6/20 1046	ETA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Justin Mixon	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76722-20637.5
Client Contact: Sarah Johnson	Phone: 432-296-9547	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 3 of 4
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #: -			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron SCB 23-14	Project #: 60012284			
Site: ~~Loving, NM~~ 30051439	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DRO/ ORO C10-C28/ C28-C36	8015B_GRO- C6-C10	8260B- BTEX	Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
HA-11-4'	5-5-20	1035	G	Solid			X	X	X	X	X	2	
HA-11-5'		1045		Solid									
HA-12-0'-6'		1120		Solid									
HA-13-0'-6'		1137		Solid									
HA-13-2'		1142		Solid									
HA-13-3'		1150		Solid									
HA-12-2'		1155		Solid									
HA-12-3'		1200		Solid									
HA-14-0'-6'		1210		Solid									
HA-14-2'		1220		Solid									
HA-14-3'		1226		Solid									

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-5-20 1445			5-5-20 1641	
2		5-5-20 1641			5/6/20 1045	ETA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

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

Chain of Custody Record

Midland #264

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Dustin Aitken	Lab PM: Kudchadkar, Sachin G	Carrier Tracking No(s):	COC No: 600-76722-20637.5
Client Contact: Sarah Johnson	Phone: 432-256-9547	E-Mail: sachin.kudchadkar@testamericainc.com		Page: Page 4 of 4
Company: ARCADIS U.S., Inc.				Job #:
Address: 1004 North Big Spring Suite 121	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-227-0266(Tel)	PO #:			
Email: sarah.johnson@arcadis.com	WO #:			
Project Name: Chevron SCB 23-14	Project #: 60012284			
Site: ~~Loving, NM~~ (TX) 30051739	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DRO/ ORO C10-C28/ C28-C36	8015B_GRO- C6-C10	8260B- BTEX	Chloride	moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
HA15-0'-6"	5-5-20	1232	G	Solid			X	X	X	X	X	2	
HA15-2'	5-5-20	1240	G	Solid			X	X	X	X	X	2	
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-5-20 1445			5-5-20 1641	
2		5-5-20 1641			5/6/20 1045	ETA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 600
204767

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 5-6-20 10:45

JOB NUMBER: _____ CLIENT: Arcadis

UNPACKED BY: FF CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 2

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
5742	Y / N	Y / N	4.1	IR6	-0.1	4.0
0085	Y / N	Y / N	0.9			0.8
	Y / N	Y / N				
	Y / N	Y / N				5/6/20
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

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

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

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

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

COMMENTS:

5/6/20

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

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc. Job Number: 600-204767-1

Login Number: 204767 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0,0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 82868

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 82868
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Soil Assessment Report Accepted by OCD. OCD concurs with assessment that additional delineation is needed prior to completing remediation at site. Please submit a Remediation Plan or Closure Report to OCD through the portal by June 17, 2022.	3/15/2022