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November 12, 2020

Accepted for the record.
03/29/2023

NV

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

**Re: 2020 Soil Assessment Report – Vacuum Glorieta Central Battery
Case No. 1RP-2622
Lea County, New Mexico**

Dear New Mexico Oil Conservation Division:

Chevron Environmental Management Company (CEMC) submits herein the 2020 Soil Assessment Report for 1RP-2622, Vacuum Glorieta Central Battery, which is located approximately 1.1 miles southwest of Buckeye, in Unit C, Section 36, Township 17 South, Range 34 East in Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC. Based on the 2020 soil investigation data, additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan for review and approval to further delineate the TPH and chloride impacts in soil, south of the facility. Additionally, a deferral request for the additional assessment of impacts within the bermed area of the facility is requested at this time.

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

Respectfully,

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

Adriane Gifford
Project Manager

Encl.



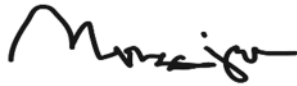
Chevron Environmental Management Company

2020 SOIL ASSESSMENT REPORT

Vacuum Glorieta Central Battery
Case No. 1RP-2622

November 2020

2020 SOIL ASSESSMENT REPORT



Morgan Jordan
Task Manager I



Scott Foord, PG
Certified Project Manager

**2020 SOIL
ASSESSMENT REPORT**

Vacuum Glorieta Central Battery
Case No. 1RP-2622

Prepared for:

Chevron Environmental Management Company
Upstream Business Unit
1500 Louisiana Street, Room 38108
Houston, Tx 77002

Prepared by:

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Our Ref:

30057161

Date:

November 2020

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2020 SOIL ASSESSMENT REPORT

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2020 SOIL ASSESSMENT REPORT

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) prepared this Site Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing the soil assessment activities conducted for the Vacuum Glorieta Central Battery (Site).

2 PROJECT SUMMARY

The Site is located approximately 1.10 miles southwest of Buckeye, in Unit C, Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. A site location map is included as **Figure 1**.

On June 13, 2010, a 10-inch diameter buried steel produced water transfer line located between the transfer pumps and the horizontal injection pump released approximately 264 barrels (bbls) of produced water. The areas impacted were reportedly limited to the VGWU Production Battery and the adjacent injection facility (VGWU Sat 1) with some runoff towards a well location south of the tank battery. The Initial C-141 Form stated vacuum trucks recovered approximately 180 bbls of free-standing fluid. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well 0.22 miles west of the Site with a depth to groundwater of 105 feet below ground surface (bgs). The Initial C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) on June 14, 2010 and approved by NMOCD on June 22, 2010. The release was assigned remediation permit number 1RP-2622. The Initial C-141 Form is included as **Appendix A**.

3 2020 SOIL ASSESSMENT

On September 14-17, 2020, Arcadis personnel collected soil samples from thirty locations (SB-1 through SB-30) within the release area. Twenty-three of the soil borings (SB-1 through SB-23) were advanced within the bermed areas of the VGWU Production Battery and the injection facility (VGWU Sat 1), and seven soil borings (SB-24 through SB-30) were advanced on the pad area south of the facility. The sample locations were determined based on information obtained by Arcadis from the Initial C-141 Form and from Chevron personnel familiar with the release location associated with remediation permit number 1RP-2622. The soil samples were collected with a hand auger at depths ranging from the surface to approximately 2 feet (ft) below ground surface (bgs). Each boring location was backfilled with the remaining soil cuttings. Soil sample locations are presented in **Figure 2**. The samples were jarred following collection and placed on ice for delivery to Eurofins TestAmerica in Houston, Texas for analysis.

The soil samples were analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) by USEPA Method 8021B;
- Total Petroleum Hydrocarbons (TPH) as gasoline (TPH-GRO) by USEPA Method 8015;
- TPH as diesel (TPH-DRO) by USEPA Method 8015;
- TPH as oil (TPH-ORO) by USEPA Method 8015; and
- Chloride by USEPA Method 9056A.

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4 SOIL ANALYTICAL RESULTS

The soil analytical results were compared to the revised New Mexico Administration Code (NMAC) screening levels for BTEX, TPH, and chloride for depth to groundwater greater than 100 ft bgs (revised Rule 19.15.29). 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 B**. The soil analytical map is presented as **Figure 3**.

4.1 BTEX

- Benzene concentrations were reported below the NMAC standard of 10 milligrams per kilogram (mg/kg) at all sample locations.
- Total BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all sample locations.

4.2 TPH

TPH GRO and DRO concentrations exceeded the NMAC standard of 1,000 mg/kg at ten sample locations located inside the facility (SB-7, SB-8, SB-11, SB-12, SB-15, SB-17, SB-18, SB-21, SB-22, and SB-23), and one location outside the facility to the south (SB-26).

Exceedances inside the facility:

- SB-7 (0–0.5') at 3,910 mg/kg
- SB-8 (0–0.5') at 1,111 mg/kg
- SB-11 (0–0.5') at 2,510 mg/kg
- SB-12 (0–0.25') at 9,510 mg/kg
- SB-15 (0–0.25') at 4,770 mg/kg
- SB-17 (0–0.25') at 2,140 mg/kg
- SB-18 (0–0.25') at 7,820 mg/kg
- SB-21 (0–0.5') at 2,470 mg/kg
- SB-22 (0–0.5') at 4,340 mg/kg
- SB-23 (0–0.5') at 2,970 mg/kg
- SB-23 (1–2') at 3,630 mg/kg

Exceedance south of facility:

- SB-26 (0–0.5') at 2,001 mg/kg

Total TPH concentrations exceeded the NMAC standard of 2,500 mg/kg at fifteen sample locations inside the facility (SB-7, SB-8, SB-10 through SB-18, and SB-20 through SB-23), and two location outside the facility to the south (SB-24 and SB-26).

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Exceedances inside the facility:

- SB-7 (0–0.5') at 10,660 mg/kg
- SB-8 (0–0.5') at 5,281 mg/kg
- SB-10 (0–0.5') at 3,247 mg/kg
- SB-11 (0–0.5') at 11,700 mg/kg
- SB-12 (0–0.25') at 49,910 mg/kg
- SB-13 (0–0.25') at 2,947 mg/kg
- SB-14 (0–0.5') at 2,867 mg/kg
- SB-15 (0–0.25') at 23,970 mg/kg
- SB-16 (0–0.5') at 2,938 mg/kg
- SB-17 (0–0.25') at 14,240 mg/kg
- SB-18 (0–0.25') at 38,620 mg/kg
- SB-20 (0–0.5') at 4,526 mg/kg
- SB-21 (0–0.5') at 13,770 mg/kg
- SB-22 (0–0.5') at 21,640 mg/kg
- SB-23 (0–0.5') at 19,270 mg/kg
- SB-23 (1–2') at 22,330 mg/kg

Exceedances south of facility:

- SB-24 (0–0.5') at 3,783 mg/kg
- SB-26 (0–0.5') at 13,401 mg/kg

4.3 Chloride

Chloride concentrations were reported below the revised Rule 19.15.29 screening limit of 20,000 mg/kg at all sample locations. However, concentrations did exceed the revised Rule (19.15.29.13) restoration screening criteria of 600 mg/kg at fifteen soil sample locations inside the facility (SB-5, SB-6, and SB-10 through SB-22), and four locations outside the facility to the south (SB-24, SB-26, SB-27, and SB-28).

Exceedances inside the facility:

- SB-5 (0–0.5') at 1,680 mg/kg
- SB-6 (0–0.5') at 2,020 mg/kg
- SB-10 (0–0.5') at 3,480 mg/kg
- SB-11 (0–0.5') at 3,870 mg/kg

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- SB-12 (0–0.25') at 4,520 mg/kg
- SB-13 (0–0.25') at 1,730 mg/kg
- SB-14 (0–0.5') at 650 mg/kg
- SB-15 (0–0.25') at 4,880 mg/kg
- SB-16 (0–0.5') at 1,700 mg/kg
- SB-17 (0–0.25') at 1,510 mg/kg
- SB-18 (0–0.25') at 4,640 mg/kg
- SB-19 (0–0.25') at 7,370 mg/kg
- SB-20 (0–0.5') at 4,900 mg/kg
- SB-21 (0–0.5') at 5,640 mg/kg
- SB-22 (0–0.5') at 5,530 mg/kg
- SB-22 (1–1.25') at 3,830 mg/kg

Exceedances south of facility:

- SB-24 (0–0.5') at 1,850 mg/kg
- SB-26 (0–0.5') at 953 mg/kg
- SB-27 (0–0.5') at 1,280 mg/kg
- SB-28 (1–2') at 1,610 mg/kg

5 RECOMMENDATION

Analytical results associated with the recent assessment activities inside the bermed facility area indicate that concentrations of TPH above the NMAC standard for depth to groundwater greater than 100 ft bgs and chloride above the restoration screening criteria of 600 mg/kg within the top 4 feet bgs of the soil column are present in surface and shallow soil within the bermed area of the VGWU Production Battery and the injection facility (VGWU Sat 1). The facility is currently active with numerous above and below ground utilities. As such, a deferral request for additional assessment of impacts within the bermed area of the facility is requested at this time, and these areas will be addressed (assessed and excavated) during site restoration activities that will be conducted following abandonment of this facility at a future date.

Analytical results associated with the recent assessment activities south of the facility indicate that concentrations of TPH above the NMAC standard for depth to groundwater greater than 100 ft bgs and chloride above the restoration screening criteria of 600 mg/kg within the top 4 feet bgs of the soil column are present in the vicinity of SB-24, SB-26, SB-27, and SB-28. Based upon the findings presented in this report, additional soil assessment activities are recommended to further delineate the TPH and chloride impacts in soil south of the facility.

TABLES



Table 1
 2020 Soil Analytical Results
 Chevron Environmental Management Company
 Vaccum Glorieta Central Battery
 Lea County, New Mexico



Sample I.D. No.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics	Diesel Range Organics	Total GRO + DRO	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)	(mg/kg)
NMAC Standards			10	--	--	--	50	--	--	1,000	--	2,500	20,000
Restoration Requirements													600*
SB-1	0-5'	09/14/20	<0.000685	<0.0015	<0.00111	<0.00123	<0.000685	<0.598	3.16 J	3.16 J	16.7	19.9	10.3
	1'-1.5'	09/14/20	<0.000741	<0.00162	<0.0012	<0.00133	<0.000741	<0.600	6.21 J	6.21 J	28.8	35.01	4.19 J
SB-2	0-5'	09/14/20	<0.000679	<0.00149	<0.0011	<0.00122	<0.000679	<0.621	8.06 J	8.06 J	25.9	33.96	5.86
SB-3	0-5'	09/14/20	<0.000721	<0.00158	<0.00117	<0.00129	<0.000721	<0.640	10.0	10.0	23.7	33.7	12.4
SB-4	0-5'	09/14/20	<0.000734	<0.00161	<0.00119	<0.00132	<0.000734	<0.579	375	375	1,080	1,455	346
SB-5	0-5'	09/14/20	0.000971 J	<0.00171	<0.00126	<0.0014	0.000971 J	1.08 J	58.5	59.58 J	182	241.6	1,680
SB-6	0-0.25'	09/14/20	<0.000629	0.00217 J	<0.00102	<0.00113	0.00217 J	<0.636	14.2	14.2	76.5	90.7	2,020
SB-7	0-5'	09/14/20	<0.000683	0.0172	<0.00111	<0.00123	0.0172	<0.665	3.910	3.910	6,750	10,660	136
SB-8	0-5'	09/14/20	<0.000646	0.0169	<0.00105	<0.00116	0.0169	0.651 J	1,110	1,111	4,170	5,281	26.0
SB-9	0-0.25'	09/14/20	0.00178 J	0.0673	<0.00133	0.00276 J	0.07184 J	0.874 J	291	291.87	838	1,130	589
SB-10	0-5'	09/14/20	<0.000613	0.0133	<0.000993	<0.0011	0.0133	<0.567	687	687	2,560	3,247	3,480
SB-11	0-5'	09/15/20	<0.000645	0.00708	<0.00104	<0.00116	0.00708	<0.572	2,510	2,510	9,190	11,700	3,870
SB-12	0-0.25'	09/15/20	<0.000643	0.0231	<0.00104	<0.00115	0.0231	<0.617	9,510	9,510	40,400	49,910	4,520
SB-13	0-0.25'	09/15/20	<0.000642	0.00217 J	<0.00104	<0.00115	0.00217 J	<0.591	397	397	2,550	2,947	1,730
SB-14	0-5'	09/15/20	<0.000644	0.00206 J	<0.00104	<0.00115	0.00206 J	<0.580	627	627	2,240	2,867	650
SB-15	0-0.25'	09/15/20	<0.000639	0.0113	<0.00104	<0.00115	0.0113	<0.589	4,770	4,770	19,200	23,970	4,880
SB-16	0-5'	09/15/20	<0.000718	<0.00157	<0.00116	<0.00129	<0.000718	<0.692	538	538	2,400	2,938	1,700
SB-17	0-0.25'	09/15/20	<0.000636	0.0256	<0.00103	0.00243 J	0.25843 J	<0.574	2,140	2,140	12,100	14,240	1,510
SB-18	0-0.25'	09/15/20	<0.000635	0.0364	<0.00103	0.00193 J	0.03833 J	<0.565	7,820	7,820	30,800	38,620	4,640
SB-19	0-5'	09/15/20	<0.000662	0.0107	<0.00107	0.00245 J	0.01315 J	<0.609	11.4	11.4	78.8	90.2	7,370
SB-20	0-5'	09/16/20	<0.000687	0.00231 J	<0.00111	<0.00123	0.00231 J	<0.675	846	846	3,680	4,526	4,900
SB-21	0-5'	09/16/20	<0.000649	0.00329 J	<0.00105	<0.00116	0.00329 J	<0.562	2,470	2,470	11,300	13,770	5,640
DUP 1 (SB-21)	0-5'	09/16/20	<0.000661	<0.00145	<0.00107	<0.00118	<0.000661	<0.608	1,960	1,960	5,960	7,920	5,790
	0-5'	09/16/20	<0.000595	0.00700	<0.000963	<0.00107	0.00700	<0.557	4,340	4,340	17,300	21,640	5,530
SB-22	1'-1.25'	09/16/20	<0.000771	0.00398 J	<0.00125	<0.00138	0.00398 J	<0.739	315	315	2,130	2,445	3,830
	0-5'	09/16/20	<0.000750	<0.00164	<0.00121	<0.00134	<0.000750	<0.715	2,970	2,970	16,300	19,270	89.4
SB-23	1'-2'	09/16/20	<0.000835	0.00554 J	<0.00135	<0.00150	0.00554 J	<0.833	3,630	3,630	18,700	22,330	252
SB-24	0-5'	09/16/20	<0.000682	0.00781	<0.00110	<0.00122	0.00781	0.695 J	762	762	3,020	3,783	1,850
SB-25	0-5'	09/16/20	<0.000651	0.00273 J	<0.00105	<0.00117	0.00273 J	<0.603	287	287	1,880	2,167	536
SB-26	0-5'	09/17/20	<0.000671	0.0202	<0.00109	0.00189 J	0.02209 J	0.732 J	2,000	2,001	11,400	13,401	953
SB-27	0-5'	09/17/20	<0.000745	0.00313 J	<0.00121	<0.00134	0.00313 J	<0.659	172	172	1,270	1,442	1,280
DUP 2 (SB-27)	0-5'	09/17/20	<0.000678	0.00592	<0.00110	<0.00122	0.00592	<0.701	233	233	1,610	1,843	953
SB-28	0-5'	09/17/20	<0.000657	0.0147	<0.00106	0.00173 J	0.01643 J	<0.635	47.3	47.3	136	183.3	484
	1'-2'	09/17/20	<0.000751	0.00261 J	<0.00122	<0.00135	0.00261 J	<0.759	35.5	35.5	75	110.5	1,610
SB-29	0-5'	09/17/20	<0.000823	0.00481 J	<0.00133	<0.00148	0.00481 J	<0.804	187	187	359	546	147
SB-30	0-5'	09/17/20	0.000672 J	0.0113	<0.000942	0.00204 J	0.014012 J	0.637 J	56.8	57.437	322	379.4	27.2

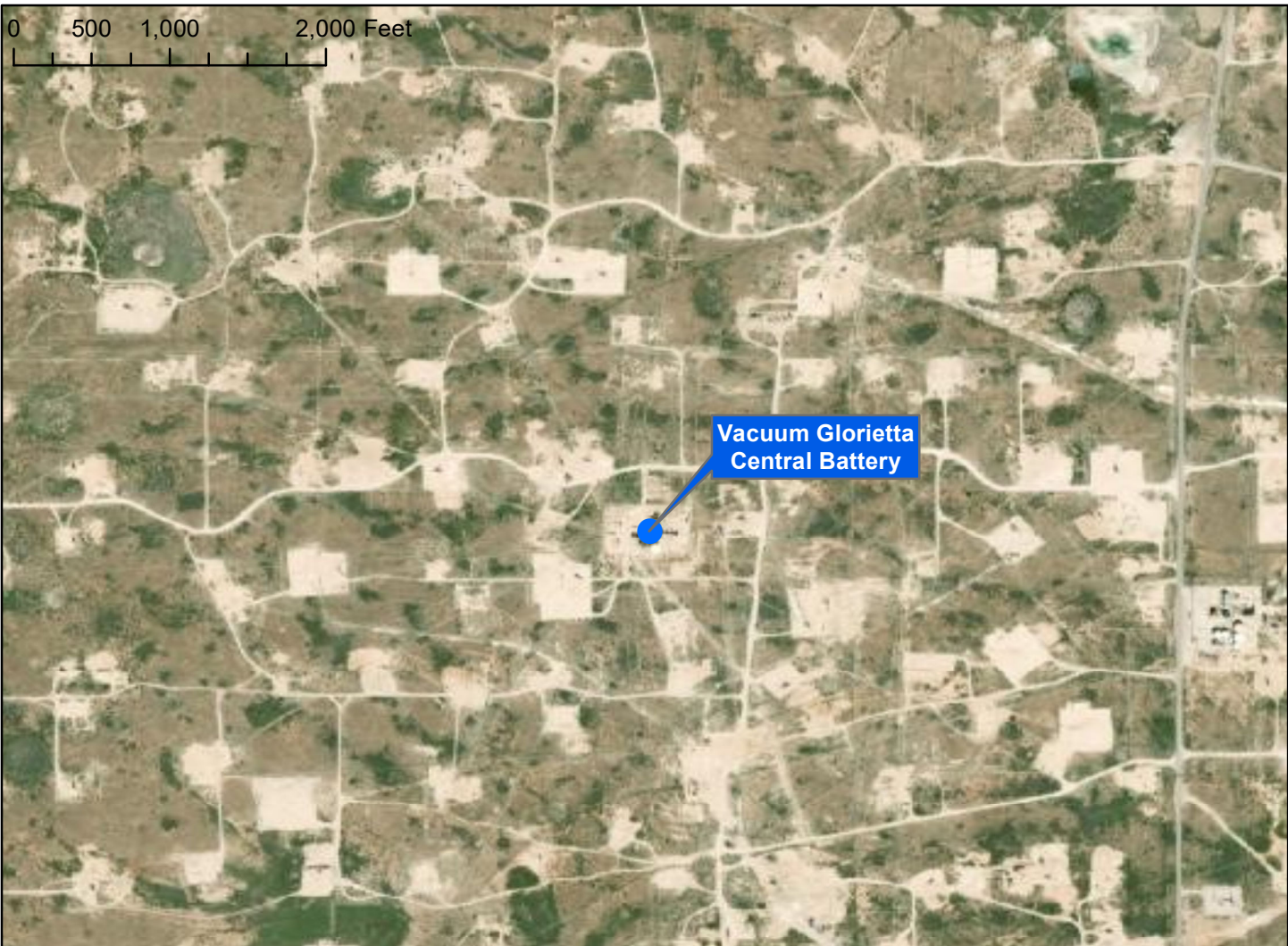
Legend:
BOLD = Analytes exceeding NMAC standards
 J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value
 '<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)
 mg/kg: Milligram per Kilogram
 BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes
 NMAC : New Mexico Administration Code
 TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics
 TPH ORO: Total Petroleum Hydrocarbons Oil Range Organics
 TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics
 " " : Indicates one foot
 " : Indicated inches
 *Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018
 DUP : Duplicate sample

- Notes:
 1. Chloride analyzed by United States Environmental Protection Agency Method 300.0
 2. TPH analyzed by USEPA Method 8015D
 3. BTEX analyzed by USEPA Method 8260C
 4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

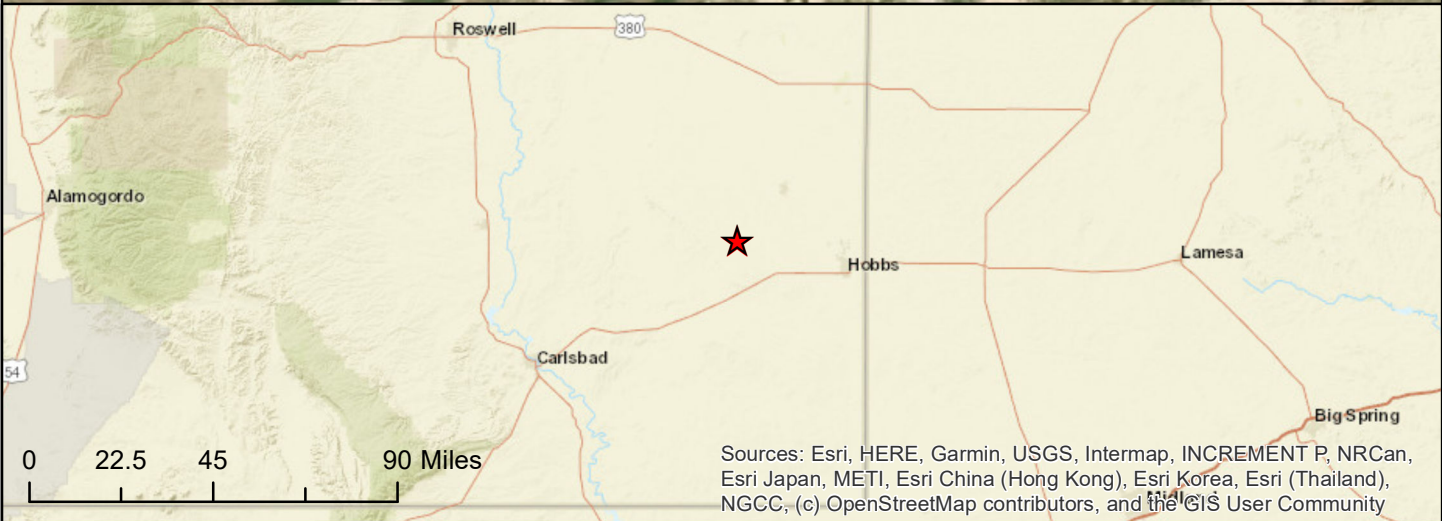
FIGURES



0 500 1,000 2,000 Feet



Vacuum Glorietta
Central Battery



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Document Path: D:\Projects\2020\Chevron\MXD\Figure 1 - Site Location Map_VG.mxd



NEW MEXICO



- Notes:
1. Datum: D_WGS_1984
 2. Site Location: 32.795826, -103.514599

Chevron Environmental Management Company
Vacuum Glorietta Central Battery
Lea County, New Mexico

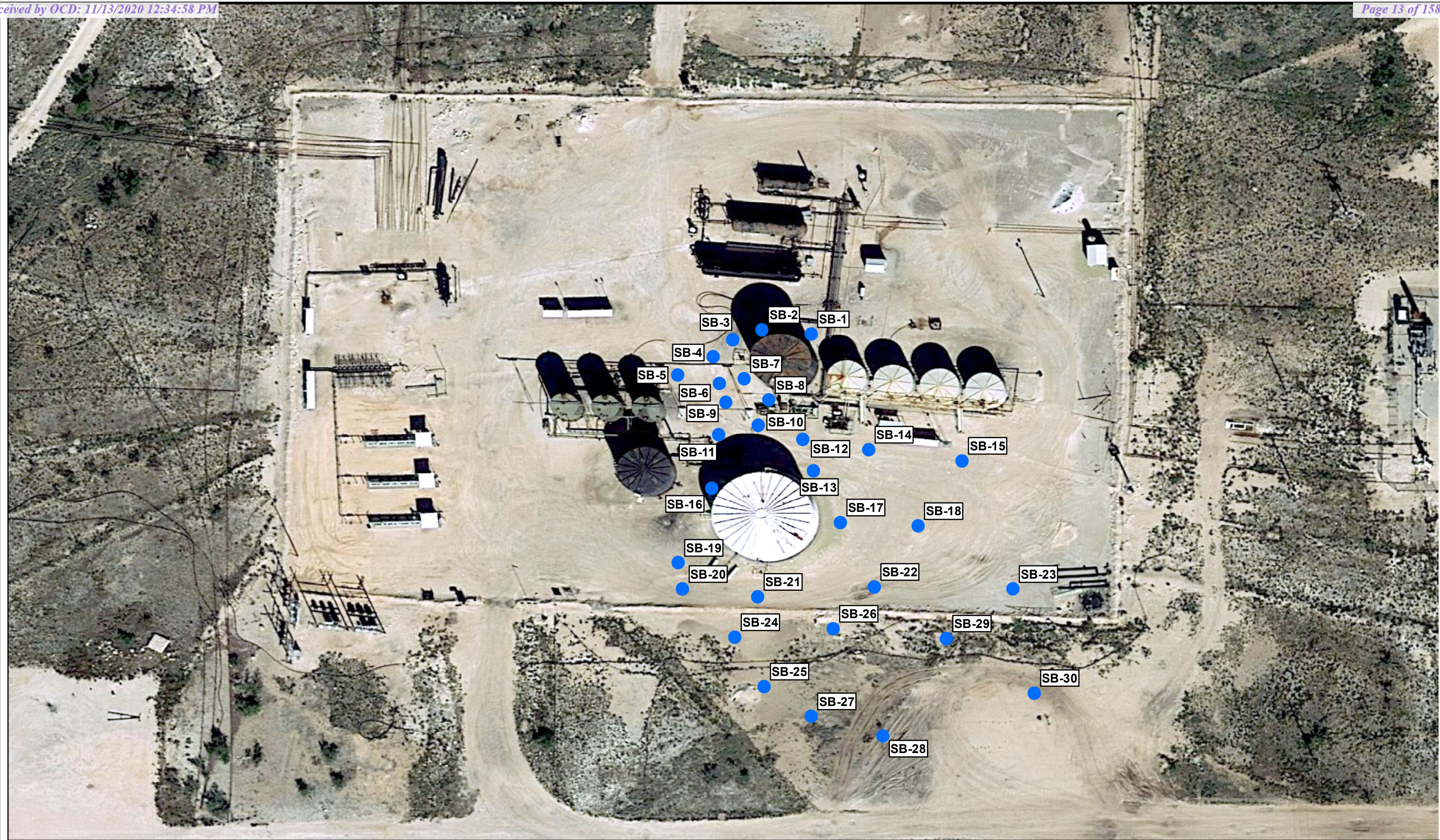
SITE LOCATION MAP



FIGURE

1

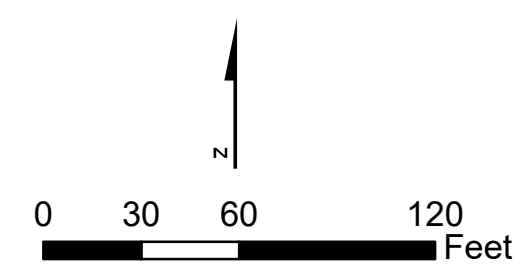
Document Path: D:\Projects\2020\Chevron\MXD\Figure 2 - Soil Sample Locations_VG.mxd



Legend

- Soil Sample Locations

Note:
 1. Datum: GCS_WGS_1984
 2. Site Location: 32.795826°, -103.514599°



Chevron Environmental Management Company
 Vacuum Glorieta Central Battery
 Lea County, New Mexico

SOIL SAMPLE LOCATIONS MAP

FIGURE 2

APPENDIX A

Initial C-141 Form 1RP-2622



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

State of New Mexico
Energy Minerals and Natural Resources JUN 22 2010
Oil Conservation Division
1220 South St. Francis Dr. HOBBSOCD
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR		X	Initial Report	Final Report
Name of Company Chevron USA			Contact Tejay Simpson	
Address HCR 60 Box 423 Lovington, N.M. 88260			Telephone No. 505-396-4414 X 201	
Facility Name Vacuum Glorieta Central Battery			Facility Type Production & Injection Battery	
Surface Owner State of New Mexico		Mineral Owner State of NM		Lease No. OGRID No. B-155

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	South Line	Feet from the	East Line	County
B	36	17.0S	34.0E					Lea

Latitude: 32.795826 Degree / Longitude: -103.514599

Chloride: 65,000

NATURE OF RELEASE

API #30-025-30716 (VGWU 60)

Type of Release Produced Water (65,000 Chloride)	Volume of Release Produced Water: 264 Barrels	Volume Recovered 180 Barrels
Source of Release 10" buried steel transfer line from transfer pumps to horizontal injection pump suction	Date and Hour of Occurrence 06/13/2010 @ 07:13	Date and Hour of Discovery 06/13/2010 @ 07:50
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Elidio Gonzales <i>06</i>	
By Whom?	Date and Hour 06/13/2010 @ 17:25	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted. Describe Fully.*

CW(9) 122'

Describe Cause of Problem and Remedial Action Taken.*

At 07:13:42 hours a callout alarm was activated for horizontal pump (H-Pump) shutdown at Vacuum Glorieta West Unit (VGWU) Sat.1 - middle pump. A second callout alarm was activated at 07:18:12 hours for VGWU Sat 3 H-pump. The alarms were remotely acknowledge by Field Specialist (FS) at 07:27:07 hours. FS responded to the facility and discovered a leak in progress and shut down the remaining H-pump and transfer pumps at 07:50:36 hours. The leak was identified as coming from a buried water transfer line from the suction tank transfer pump feeding the suction of the horizontal injection pumps. The line was isolated to stop the leak and the producing wells were shut it to prevent tank overflow. Vacuum trucks were dispatched to the scene and recovered all free standing fluid (180 BBL.S). A gang was dispatched to the location and it was determined the buried line was not repairable. Two temporary lines were installed and the H-pumps at Sat 1 were returned to operation at approximately 18:00 hours. The H-pump at Sat 3 could not be returned to operation. Ten wells accounting for approximately 120 BO and 16,000 BW remain shut in until additional repairs can be made. Note: the line that failed was a buried 10" steel line of undetermined age.

Describe Area Affected and Cleanup Action Taken.

Area of impact was primarily limited to the combined VGWU Production Battery and injection facility (VGWU Sat 1) with some run off to a well location on the south side of the battery. Vacuum trucks were dispatched to the location and recovered a total of 180 barrels of produced water. A water sample was pulled from the pooled up area located on the southeast corner of the location where some rain water had accumulated. Soil impact was broken up into three primary areas. Area 1 (14,866 square feet) was assumed 100% impact at average depth of 6". Area 2 (10,907 square feet) was assumed 50% impact at average depth of 3". Area 3 (5,341 square feet) was assumed 50% impact at average depth of 3". All soil impact calculations based upon 5% soil saturation. Dirt contractor will be dispatched to scrape up damp contaminated caliche from the impact area within the battery. Final battery clean up is recommended to be completed during abandonment of the facility. Impact area outside of the facility will be tested and a follow-up work plan submitted.

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: <i>Tejay Simpson</i>		OIL CONSERVATION DIVISION	
Printed Name: Tejay Simpson		Approved by District Supervisor: <i>Jeffrey LeRine</i>	
Title: Operations Supervisor		Approval Date: 06/22/10	Expiration Date: 08/23/10
E-mail Address tscq@chevron.com		Conditions of Approval: <i>DECLINE TO CLEAN UP, SO THAT IS IS VERIFIED THAT WAITING UNTIL</i>	
Date: 06-14-2010 <i>6-22-10</i> Phone: 396-4414 X 201		Attached <input type="checkbox"/> IRP-10-9-2622	

FINAL ABANDONMENT IS SAFE FOR GROUND WATER. REMEDIATE APPROPRIATELY.

* Attach Additional Sheets If Necessary

APPENDIX B

Laboratory Report





Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-211219-1
Client Project/Site: Chevron - VC GB Site

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

Attn: Justin Nixon

Authorized for release by:
10/1/2020 5:04:11 PM

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



LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

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

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

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Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Laboratory Job ID: 600-211219-1

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Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Protocol References:

ASTM = ASTM International

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

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

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-211219-1	SB-1-S-0-.5-200914	Solid	09/14/20 11:53	09/15/20 10:38	
600-211219-2	SB-1-S-1-1.5-200914	Solid	09/14/20 12:11	09/15/20 10:38	
600-211219-3	SB-2-S-0-.5-200914	Solid	09/14/20 12:23	09/15/20 10:38	
600-211219-4	SB-3-S-0-.5-200914	Solid	09/14/20 12:43	09/15/20 10:38	
600-211219-5	SB-4-S-0-.5-200914	Solid	09/14/20 12:55	09/15/20 10:38	
600-211219-6	SB-5-S-0-.5-200914	Solid	09/14/20 14:23	09/15/20 10:38	
600-211219-7	SB-6-S-0-.25-200914	Solid	09/14/20 14:44	09/15/20 10:38	
600-211219-8	SB-7-S-0-.5-200914	Solid	09/14/20 14:51	09/15/20 10:38	
600-211219-9	SB-8-S-0-.5-200914	Solid	09/14/20 15:09	09/15/20 10:38	
600-211219-10	SB-9-S-0-.25-200914	Solid	09/14/20 15:12	09/15/20 10:38	
600-211219-11	SB-10-S-0-.25-200914	Solid	09/14/20 15:19	09/15/20 10:38	

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-1-S-0-.5-200914

Lab Sample ID: 600-211219-1

Date Collected: 09/14/20 11:53

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 96.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.685	U	5.44	0.685	ug/Kg	☼	09/15/20 15:52	09/18/20 20:05	1
Ethylbenzene	1.11	U	5.44	1.11	ug/Kg	☼	09/15/20 15:52	09/18/20 20:05	1
Toluene	1.50	U	5.44	1.50	ug/Kg	☼	09/15/20 15:52	09/18/20 20:05	1
Xylenes, Total	1.23	U	5.44	1.23	ug/Kg	☼	09/15/20 15:52	09/18/20 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130	09/15/20 15:52	09/18/20 20:05	1
4-Bromofluorobenzene	118		57 - 140	09/15/20 15:52	09/18/20 20:05	1
Dibromofluoromethane	96		68 - 140	09/15/20 15:52	09/18/20 20:05	1
Toluene-d8 (Surr)	95		50 - 130	09/15/20 15:52	09/18/20 20:05	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.598	U	1.02	0.598	mg/Kg	☼	09/15/20 15:34	09/16/20 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130	09/15/20 15:34	09/16/20 14:09	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.16	J	8.65	1.78	mg/Kg	☼	09/16/20 13:29	09/22/20 11:13	1
Oil Range Organics (C28-C36)	16.7		8.65	5.21	mg/Kg	☼	09/16/20 13:29	09/22/20 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		60 - 140	09/16/20 13:29	09/22/20 11:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3	F1	8.34	1.11	mg/Kg	☼		09/29/20 14:43	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.0		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	96.0		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-1-S-1-1.5-200914

Lab Sample ID: 600-211219-2

Date Collected: 09/14/20 12:11

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 91.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.741	U	5.88	0.741	ug/Kg	☼	09/15/20 15:52	09/18/20 20:30	1
Ethylbenzene	1.20	U	5.88	1.20	ug/Kg	☼	09/15/20 15:52	09/18/20 20:30	1
Toluene	1.62	U	5.88	1.62	ug/Kg	☼	09/15/20 15:52	09/18/20 20:30	1
Xylenes, Total	1.33	U	5.88	1.33	ug/Kg	☼	09/15/20 15:52	09/18/20 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		61 - 130	09/15/20 15:52	09/18/20 20:30	1
4-Bromofluorobenzene	120		57 - 140	09/15/20 15:52	09/18/20 20:30	1
Dibromofluoromethane	98		68 - 140	09/15/20 15:52	09/18/20 20:30	1
Toluene-d8 (Surr)	96		50 - 130	09/15/20 15:52	09/18/20 20:30	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-1-S-1-1.5-200914

Lab Sample ID: 600-211219-2

Date Collected: 09/14/20 12:11

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 91.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.600	U	1.02	0.600	mg/Kg	☼	09/15/20 15:34	09/16/20 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130				09/15/20 15:34	09/16/20 15:00	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	6.21	J	9.06	1.87	mg/Kg	☼	09/16/20 13:29	09/22/20 11:51	1
Oil Range Organics (C28-C36)	28.8		9.06	5.46	mg/Kg	☼	09/16/20 13:29	09/22/20 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		60 - 140				09/16/20 13:29	09/22/20 11:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.19	J	4.36	0.583	mg/Kg	☼		09/29/20 15:44	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	91.7		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-2-S-0-.5-200914

Lab Sample ID: 600-211219-3

Date Collected: 09/14/20 12:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 93.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.679	U	5.39	0.679	ug/Kg	☼	09/21/20 13:30	09/21/20 15:12	1
Ethylbenzene	1.10	U	5.39	1.10	ug/Kg	☼	09/21/20 13:30	09/21/20 15:12	1
Toluene	1.49	U	5.39	1.49	ug/Kg	☼	09/21/20 13:30	09/21/20 15:12	1
Xylenes, Total	1.22	U	5.39	1.22	ug/Kg	☼	09/21/20 13:30	09/21/20 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		61 - 130				09/21/20 13:30	09/21/20 15:12	1
4-Bromofluorobenzene	100		57 - 140				09/21/20 13:30	09/21/20 15:12	1
Dibromofluoromethane	89		68 - 140				09/21/20 13:30	09/21/20 15:12	1
Toluene-d8 (Surr)	93		50 - 130				09/21/20 13:30	09/21/20 15:12	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.621	U	1.06	0.621	mg/Kg	☼	09/15/20 15:34	09/16/20 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130				09/15/20 15:34	09/16/20 15:25	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.06	J	8.88	1.83	mg/Kg	☼	09/16/20 13:29	09/22/20 14:49	1
Oil Range Organics (C28-C36)	25.9		8.88	5.35	mg/Kg	☼	09/16/20 13:29	09/22/20 14:49	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-2-S-0-.5-200914

Lab Sample ID: 600-211219-3

Date Collected: 09/14/20 12:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 93.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	110		60 - 140	09/16/20 13:29	09/22/20 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.86		4.29	0.572	mg/Kg	⊛		09/29/20 16:04	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	93.3		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-3-S-0-.5-200914

Lab Sample ID: 600-211219-4

Date Collected: 09/14/20 12:43

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 86.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.721	U	5.72	0.721	ug/Kg	⊛	09/15/20 15:52	09/18/20 21:21	1
Ethylbenzene	1.17	U	5.72	1.17	ug/Kg	⊛	09/15/20 15:52	09/18/20 21:21	1
Toluene	1.58	U	5.72	1.58	ug/Kg	⊛	09/15/20 15:52	09/18/20 21:21	1
Xylenes, Total	1.29	U	5.72	1.29	ug/Kg	⊛	09/15/20 15:52	09/18/20 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		61 - 130	09/15/20 15:52	09/18/20 21:21	1
4-Bromofluorobenzene	120		57 - 140	09/15/20 15:52	09/18/20 21:21	1
Dibromofluoromethane	98		68 - 140	09/15/20 15:52	09/18/20 21:21	1
Toluene-d8 (Surr)	94		50 - 130	09/15/20 15:52	09/18/20 21:21	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.640	U	1.09	0.640	mg/Kg	⊛	09/15/20 15:34	09/18/20 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	95		70 - 130	09/15/20 15:34	09/18/20 10:21	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	10.0		9.56	1.97	mg/Kg	⊛	09/16/20 13:29	09/22/20 15:21	1
Oil Range Organics (C28-C36)	23.7		9.56	5.76	mg/Kg	⊛	09/16/20 13:29	09/22/20 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		60 - 140	09/16/20 13:29	09/22/20 15:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.61	0.615	mg/Kg	⊛		09/29/20 16:24	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.2		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	86.8		1.0	1.0	%			09/16/20 09:01	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-4-S-0-.5-200914

Lab Sample ID: 600-211219-5

Date Collected: 09/14/20 12:55

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 94.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.734	U	5.83	0.734	ug/Kg	☼	09/15/20 15:52	09/18/20 21:47	1
Ethylbenzene	1.19	U	5.83	1.19	ug/Kg	☼	09/15/20 15:52	09/18/20 21:47	1
Toluene	1.61	U	5.83	1.61	ug/Kg	☼	09/15/20 15:52	09/18/20 21:47	1
Xylenes, Total	1.32	U	5.83	1.32	ug/Kg	☼	09/15/20 15:52	09/18/20 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		61 - 130	09/15/20 15:52	09/18/20 21:47	1
4-Bromofluorobenzene	120		57 - 140	09/15/20 15:52	09/18/20 21:47	1
Dibromofluoromethane	99		68 - 140	09/15/20 15:52	09/18/20 21:47	1
Toluene-d8 (Surr)	93		50 - 130	09/15/20 15:52	09/18/20 21:47	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.579	U	0.987	0.579	mg/Kg	☼	09/15/20 15:34	09/18/20 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130	09/15/20 15:34	09/18/20 10:46	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]	375		43.9	9.05	mg/Kg	☼	09/16/20 13:29	09/22/20 15:53	5
Oil Range Organics (C28-C36)	1080		43.9	26.5	mg/Kg	☼	09/16/20 13:29	09/22/20 15:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		60 - 140	09/16/20 13:29	09/22/20 15:53	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		21.2	2.83	mg/Kg	☼		09/29/20 17:07	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	94.5		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-5-S-0-.5-200914

Lab Sample ID: 600-211219-6

Date Collected: 09/14/20 14:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 84.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.971	J	6.18	0.778	ug/Kg	☼	09/15/20 15:52	09/18/20 22:12	1
Ethylbenzene	1.26	U	6.18	1.26	ug/Kg	☼	09/15/20 15:52	09/18/20 22:12	1
Toluene	1.71	U	6.18	1.71	ug/Kg	☼	09/15/20 15:52	09/18/20 22:12	1
Xylenes, Total	1.40	U	6.18	1.40	ug/Kg	☼	09/15/20 15:52	09/18/20 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		61 - 130	09/15/20 15:52	09/18/20 22:12	1
4-Bromofluorobenzene	120		57 - 140	09/15/20 15:52	09/18/20 22:12	1
Dibromofluoromethane	98		68 - 140	09/15/20 15:52	09/18/20 22:12	1
Toluene-d8 (Surr)	92		50 - 130	09/15/20 15:52	09/18/20 22:12	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-5-S-0-.5-200914

Lab Sample ID: 600-211219-6

Date Collected: 09/14/20 14:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 84.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	1.08	J	1.13	0.662	mg/Kg	☼	09/15/20 15:34	09/18/20 11:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		70 - 130				09/15/20 15:34	09/18/20 11:11	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	58.5		9.77	2.01	mg/Kg	☼	09/16/20 13:29	09/22/20 16:25	1
Oil Range Organics (C28-C36)	182		9.77	5.88	mg/Kg	☼	09/16/20 13:29	09/22/20 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		60 - 140				09/16/20 13:29	09/22/20 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		47.3	6.31	mg/Kg	☼		09/29/20 17:27	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	84.7		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-6-S-0-.25-200914

Lab Sample ID: 600-211219-7

Date Collected: 09/14/20 14:44

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 98.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.629	U	4.99	0.629	ug/Kg	☼	09/21/20 13:30	09/21/20 15:34	1
Ethylbenzene	1.02	U	4.99	1.02	ug/Kg	☼	09/21/20 13:30	09/21/20 15:34	1
Toluene	2.17	J	4.99	1.38	ug/Kg	☼	09/21/20 13:30	09/21/20 15:34	1
Xylenes, Total	1.13	U	4.99	1.13	ug/Kg	☼	09/21/20 13:30	09/21/20 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130				09/21/20 13:30	09/21/20 15:34	1
4-Bromofluorobenzene	103		57 - 140				09/21/20 13:30	09/21/20 15:34	1
Dibromofluoromethane	95		68 - 140				09/21/20 13:30	09/21/20 15:34	1
Toluene-d8 (Surr)	99		50 - 130				09/21/20 13:30	09/21/20 15:34	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.636	U	1.08	0.636	mg/Kg	☼	09/15/20 15:34	09/18/20 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130				09/15/20 15:34	09/18/20 11:35	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14.2		8.43	1.74	mg/Kg	☼	09/16/20 13:29	09/22/20 16:57	1
Oil Range Organics (C28-C36)	76.5		8.43	5.08	mg/Kg	☼	09/16/20 13:29	09/22/20 16:57	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-6-S-0-.25-200914

Lab Sample ID: 600-211219-7

Date Collected: 09/14/20 14:44

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 98.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	121		60 - 140	09/16/20 13:29	09/22/20 16:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2020		102	13.6	mg/Kg	⊛		09/29/20 18:29	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	98.4		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-7-S-0-.5-200914

Lab Sample ID: 600-211219-8

Date Collected: 09/14/20 14:51

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 91.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.683	U	5.42	0.683	ug/Kg	⊛	09/21/20 13:30	09/21/20 15:56	1
Ethylbenzene	1.11	U	5.42	1.11	ug/Kg	⊛	09/21/20 13:30	09/21/20 15:56	1
Toluene	17.2		5.42	1.50	ug/Kg	⊛	09/21/20 13:30	09/21/20 15:56	1
Xylenes, Total	1.23	U	5.42	1.23	ug/Kg	⊛	09/21/20 13:30	09/21/20 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 130	09/21/20 13:30	09/21/20 15:56	1
4-Bromofluorobenzene	107		57 - 140	09/21/20 13:30	09/21/20 15:56	1
Dibromofluoromethane	95		68 - 140	09/21/20 13:30	09/21/20 15:56	1
Toluene-d8 (Surr)	97		50 - 130	09/21/20 13:30	09/21/20 15:56	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.665	U	1.14	0.665	mg/Kg	⊛	09/15/20 15:34	09/18/20 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	98		70 - 130	09/15/20 15:34	09/18/20 12:00	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]	3910		181	37.2	mg/Kg	⊛	09/16/20 13:29	09/22/20 18:01	20
Oil Range Organics (C28-C36)	6750		181	109	mg/Kg	⊛	09/16/20 13:29	09/22/20 18:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	0	X	60 - 140	09/16/20 13:29	09/22/20 18:01	20

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		21.9	2.92	mg/Kg	⊛		09/29/20 18:49	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	91.5		1.0	1.0	%			09/16/20 09:01	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-8-S-0-.5-200914

Lab Sample ID: 600-211219-9

Date Collected: 09/14/20 15:09

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 98.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.646	U	5.12	0.646	ug/Kg	☼	09/21/20 13:30	09/21/20 16:18	1
Ethylbenzene	1.05	U	5.12	1.05	ug/Kg	☼	09/21/20 13:30	09/21/20 16:18	1
Toluene	16.9		5.12	1.41	ug/Kg	☼	09/21/20 13:30	09/21/20 16:18	1
Xylenes, Total	1.16	U	5.12	1.16	ug/Kg	☼	09/21/20 13:30	09/21/20 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130	09/21/20 13:30	09/21/20 16:18	1
4-Bromofluorobenzene	106		57 - 140	09/21/20 13:30	09/21/20 16:18	1
Dibromofluoromethane	93		68 - 140	09/21/20 13:30	09/21/20 16:18	1
Toluene-d8 (Surr)	99		50 - 130	09/21/20 13:30	09/21/20 16:18	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.651	J	1.09	0.641	mg/Kg	☼	09/16/20 15:34	09/18/20 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	09/16/20 15:34	09/18/20 12:25	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]	1110		423	87.1	mg/Kg	☼	09/16/20 13:29	09/23/20 10:21	50
Oil Range Organics (C28-C36)	4170		423	255	mg/Kg	☼	09/16/20 13:29	09/23/20 10:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	60 - 140	09/16/20 13:29	09/23/20 10:21	50

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		4.08	0.544	mg/Kg	☼		09/29/20 19:10	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	98.2		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-9-S-0-.25-200914

Lab Sample ID: 600-211219-10

Date Collected: 09/14/20 15:12

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 83.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.78	J	6.50	0.819	ug/Kg	☼	09/15/20 15:52	09/19/20 14:18	1
Ethylbenzene	1.33	U	6.50	1.33	ug/Kg	☼	09/15/20 15:52	09/19/20 14:18	1
Toluene	67.3		6.50	1.79	ug/Kg	☼	09/15/20 15:52	09/19/20 14:18	1
Xylenes, Total	2.76	J	6.50	1.47	ug/Kg	☼	09/15/20 15:52	09/19/20 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		61 - 130	09/15/20 15:52	09/19/20 14:18	1
4-Bromofluorobenzene	120		57 - 140	09/15/20 15:52	09/19/20 14:18	1
Dibromofluoromethane	101		68 - 140	09/15/20 15:52	09/19/20 14:18	1
Toluene-d8 (Surr)	93		50 - 130	09/15/20 15:52	09/19/20 14:18	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-9-S-0-.25-200914

Lab Sample ID: 600-211219-10

Date Collected: 09/14/20 15:12

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 83.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.874	J	1.24	0.726	mg/Kg	☼	09/16/20 15:34	09/18/20 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		70 - 130				09/16/20 15:34	09/18/20 12:49	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]	291		49.8	10.3	mg/Kg	☼	09/16/20 13:29	09/23/20 10:53	5
Oil Range Organics (C28-C36)	838		49.8	30.0	mg/Kg	☼	09/16/20 13:29	09/23/20 10:53	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		60 - 140				09/16/20 13:29	09/23/20 10:53	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	589		24.0	3.21	mg/Kg	☼		09/29/20 19:30	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	83.3		1.0	1.0	%			09/16/20 09:01	1

Client Sample ID: SB-10-S-0-.25-200914

Lab Sample ID: 600-211219-11

Date Collected: 09/14/20 15:19

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 99.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.613	U	4.87	0.613	ug/Kg	☼	09/21/20 13:30	09/21/20 16:40	1
Ethylbenzene	0.993	U	4.87	0.993	ug/Kg	☼	09/21/20 13:30	09/21/20 16:40	1
Toluene	13.3		4.87	1.34	ug/Kg	☼	09/21/20 13:30	09/21/20 16:40	1
Xylenes, Total	1.10	U	4.87	1.10	ug/Kg	☼	09/21/20 13:30	09/21/20 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130				09/21/20 13:30	09/21/20 16:40	1
4-Bromofluorobenzene	102		57 - 140				09/21/20 13:30	09/21/20 16:40	1
Dibromofluoromethane	94		68 - 140				09/21/20 13:30	09/21/20 16:40	1
Toluene-d8 (Surr)	95		50 - 130				09/21/20 13:30	09/21/20 16:40	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.567	U	0.968	0.567	mg/Kg	☼	09/16/20 15:34	09/18/20 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		70 - 130				09/16/20 15:34	09/18/20 13:14	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]	687		83.6	17.2	mg/Kg	☼	09/16/20 13:29	09/22/20 19:37	10
Oil Range Organics (C28-C36)	2560		83.6	50.3	mg/Kg	☼	09/16/20 13:29	09/22/20 19:37	10

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-10-S-0-.25-200914

Lab Sample ID: 600-211219-11

Date Collected: 09/14/20 15:19

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 99.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		60 - 140	09/16/20 13:29	09/22/20 19:37	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		404	53.9	mg/Kg	☆		09/29/20 19:50	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.0		1.0	1.0	%			09/16/20 09:01	1
Percent Solids	99.0		1.0	1.0	%			09/16/20 09:01	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

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

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
600-211219-1	SB-1-S-0-.5-200914	93	118	96	95
600-211219-2	SB-1-S-1-1.5-200914	96	120	98	96
600-211219-3	SB-2-S-0-.5-200914	80	100	89	93
600-211219-4	SB-3-S-0-.5-200914	97	120	98	94
600-211219-5	SB-4-S-0-.5-200914	98	120	99	93
600-211219-6	SB-5-S-0-.5-200914	101	120	98	92
600-211219-7	SB-6-S-0-.25-200914	84	103	95	99
600-211219-8	SB-7-S-0-.5-200914	86	107	95	97
600-211219-9	SB-8-S-0-.5-200914	83	106	93	99
600-211219-10	SB-9-S-0-.25-200914	105	120	101	93
600-211219-11	SB-10-S-0-.25-200914	83	102	94	95
LCS 600-303823/3	Lab Control Sample	87	116	94	92
LCS 600-303854/3	Lab Control Sample	89	120	95	92
LCS 600-303919/3	Lab Control Sample	103	97	113	111
LCSD 600-303823/4	Lab Control Sample Dup	89	118	96	93
LCSD 600-303854/4	Lab Control Sample Dup	83	122	95	95
LCSD 600-303919/4	Lab Control Sample Dup	96	87	97	99
MB 600-303823/6	Method Blank	90	120	98	95
MB 600-303854/6	Method Blank	93	121	97	95
MB 600-303919/6	Method Blank	75	102	91	99

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TFT1 (70-130)
600-211219-1	SB-1-S-0-.5-200914	93
600-211219-2	SB-1-S-1-1.5-200914	102
600-211219-3	SB-2-S-0-.5-200914	103
600-211219-4	SB-3-S-0-.5-200914	95
600-211219-5	SB-4-S-0-.5-200914	93
600-211219-6	SB-5-S-0-.5-200914	92
600-211219-7	SB-6-S-0-.25-200914	103
600-211219-8	SB-7-S-0-.5-200914	98
600-211219-9	SB-8-S-0-.5-200914	104
600-211219-10	SB-9-S-0-.25-200914	88
600-211219-11	SB-10-S-0-.25-200914	100
LCS 600-303519/1-A	Lab Control Sample	92
LCSD 600-303519/2-A	Lab Control Sample Dup	93
MB 600-303519/3-A	Method Blank	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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)
600-211219-1	SB-1-S-0-.5-200914	86
600-211219-2	SB-1-S-1-1.5-200914	97
600-211219-3	SB-2-S-0-.5-200914	110
600-211219-4	SB-3-S-0-.5-200914	95
600-211219-5 - DL	SB-4-S-0-.5-200914	88
600-211219-6	SB-5-S-0-.5-200914	97
600-211219-7	SB-6-S-0-.25-200914	121
600-211219-8 - DL	SB-7-S-0-.5-200914	0 X
600-211219-9 - DL	SB-8-S-0-.5-200914	0 X
600-211219-10 - DL	SB-9-S-0-.25-200914	78
600-211219-11 - DL	SB-10-S-0-.25-200914	98
LCS 600-303630/2-A	Lab Control Sample	97
MB 600-303630/1-A	Method Blank	99

Surrogate Legend

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Lab Sample ID: MB 600-303823/6
Matrix: Solid
Analysis Batch: 303823

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

Analyte	MB MB		MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.630	U	5.00	0.630	ug/Kg			09/18/20 14:54	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			09/18/20 14:54	1
Toluene	1.38	U	5.00	1.38	ug/Kg			09/18/20 14:54	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			09/18/20 14:54	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		61 - 130		09/18/20 14:54	1
4-Bromofluorobenzene	120		57 - 140		09/18/20 14:54	1
Dibromofluoromethane	98		68 - 140		09/18/20 14:54	1
Toluene-d8 (Surr)	95		50 - 130		09/18/20 14:54	1

Lab Sample ID: LCS 600-303823/3
Matrix: Solid
Analysis Batch: 303823

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	55.33		ug/Kg		111	66 - 130
m-Xylene & p-Xylene	50.0	57.56		ug/Kg		115	64 - 130
o-Xylene	50.0	56.87		ug/Kg		114	62 - 130
Toluene	50.0	50.02		ug/Kg		100	67 - 130
Xylenes, Total	100	114.4		ug/Kg		114	63 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		61 - 130
4-Bromofluorobenzene	116		57 - 140
Dibromofluoromethane	94		68 - 140
Toluene-d8 (Surr)	92		50 - 130

Lab Sample ID: LCSD 600-303823/4
Matrix: Solid
Analysis Batch: 303823

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
Ethylbenzene	50.0	49.13		ug/Kg		98	66 - 130	12	30
m-Xylene & p-Xylene	50.0	50.65		ug/Kg		101	64 - 130	13	30
o-Xylene	50.0	51.40		ug/Kg		103	62 - 130	10	30
Toluene	50.0	44.52		ug/Kg		89	67 - 130	12	30
Xylenes, Total	100	102.1		ug/Kg		102	63 - 130	11	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
4-Bromofluorobenzene	118		57 - 140
Dibromofluoromethane	96		68 - 140
Toluene-d8 (Surr)	93		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Lab Sample ID: MB 600-303854/6
Matrix: Solid
Analysis Batch: 303854

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

Analyte	MB Result	MB Qualifier	MLQ (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			09/19/20 09:44	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			09/19/20 09:44	1
Toluene	1.38	U	5.00	1.38	ug/Kg			09/19/20 09:44	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			09/19/20 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130		09/19/20 09:44	1
4-Bromofluorobenzene	121		57 - 140		09/19/20 09:44	1
Dibromofluoromethane	97		68 - 140		09/19/20 09:44	1
Toluene-d8 (Surr)	95		50 - 130		09/19/20 09:44	1

Lab Sample ID: LCS 600-303854/3
Matrix: Solid
Analysis Batch: 303854

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.38		ug/Kg		95	70 - 131
Ethylbenzene	50.0	49.72		ug/Kg		99	66 - 130
m-Xylene & p-Xylene	50.0	51.37		ug/Kg		103	64 - 130
o-Xylene	50.0	51.31		ug/Kg		103	62 - 130
Toluene	50.0	45.35		ug/Kg		91	67 - 130
Xylenes, Total	100	102.7		ug/Kg		103	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
4-Bromofluorobenzene	120		57 - 140
Dibromofluoromethane	95		68 - 140
Toluene-d8 (Surr)	92		50 - 130

Lab Sample ID: LCSD 600-303854/4
Matrix: Solid
Analysis Batch: 303854

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	46.74		ug/Kg		93	70 - 131	1	30
Ethylbenzene	50.0	48.36		ug/Kg		97	66 - 130	3	30
m-Xylene & p-Xylene	50.0	50.34		ug/Kg		101	64 - 130	2	30
o-Xylene	50.0	50.25		ug/Kg		101	62 - 130	2	30
Toluene	50.0	44.81		ug/Kg		90	67 - 130	1	30
Xylenes, Total	100	100.6		ug/Kg		101	63 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		61 - 130
4-Bromofluorobenzene	122		57 - 140
Dibromofluoromethane	95		68 - 140
Toluene-d8 (Surr)	95		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Lab Sample ID: MB 600-303919/6
Matrix: Solid
Analysis Batch: 303919

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

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.630	U	5.00	0.630	ug/Kg			09/21/20 14:49	1
Ethylbenzene	1.02	U	5.00	1.02	ug/Kg			09/21/20 14:49	1
Toluene	1.38	U	5.00	1.38	ug/Kg			09/21/20 14:49	1
Xylenes, Total	1.13	U	5.00	1.13	ug/Kg			09/21/20 14:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		61 - 130		09/21/20 14:49	1
4-Bromofluorobenzene	102		57 - 140		09/21/20 14:49	1
Dibromofluoromethane	91		68 - 140		09/21/20 14:49	1
Toluene-d8 (Surr)	99		50 - 130		09/21/20 14:49	1

Lab Sample ID: LCS 600-303919/3
Matrix: Solid
Analysis Batch: 303919

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.33		ug/Kg		105	70 - 131
Ethylbenzene	50.0	56.82		ug/Kg		114	66 - 130
m-Xylene & p-Xylene	50.0	55.64		ug/Kg		111	64 - 130
o-Xylene	50.0	55.97		ug/Kg		112	62 - 130
Toluene	50.0	55.57		ug/Kg		111	67 - 130
Xylenes, Total	100	111.6		ug/Kg		112	63 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		61 - 130
4-Bromofluorobenzene	97		57 - 140
Dibromofluoromethane	113		68 - 140
Toluene-d8 (Surr)	111		50 - 130

Lab Sample ID: LCSD 600-303919/4
Matrix: Solid
Analysis Batch: 303919

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	46.32		ug/Kg		93	70 - 131	12	30
Ethylbenzene	50.0	51.40		ug/Kg		103	66 - 130	10	30
m-Xylene & p-Xylene	50.0	51.00		ug/Kg		102	64 - 130	9	30
o-Xylene	50.0	50.35		ug/Kg		101	62 - 130	11	30
Toluene	50.0	49.52		ug/Kg		99	67 - 130	12	30
Xylenes, Total	100	101.4		ug/Kg		101	63 - 130	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		61 - 130
4-Bromofluorobenzene	87		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	99		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Lab Sample ID: MB 600-303519/3-A
Matrix: Solid
Analysis Batch: 303560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303519

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		09/15/20 12:34	09/16/20 10:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		70 - 130				09/15/20 12:34	09/16/20 10:00	1

Lab Sample ID: LCS 600-303519/1-A
Matrix: Solid
Analysis Batch: 303560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.292		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	92		70 - 130				

Lab Sample ID: LCSD 600-303519/2-A
Matrix: Solid
Analysis Batch: 303560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 303519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.324		mg/Kg		106	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	93		70 - 130						

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

Lab Sample ID: MB 600-303630/1-A
Matrix: Solid
Analysis Batch: 303943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303630

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		09/16/20 13:29	09/22/20 03:42	1
Oil Range Organics (C28-C36)	5.00	U	8.30	5.00	mg/Kg		09/16/20 13:29	09/22/20 03:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		60 - 140				09/16/20 13:29	09/22/20 03:42	1

Lab Sample ID: LCS 600-303630/2-A
Matrix: Solid
Analysis Batch: 303943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	51.13		mg/Kg		77	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Lab Sample ID: LCS 600-303630/2-A
Matrix: Solid
Analysis Batch: 303943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303630

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	97		60 - 140

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-304427/1-A
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.534	U	4.00	0.534	mg/Kg			09/29/20 10:12	1

Lab Sample ID: LCS 600-304427/2-A
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Chloride	200	185.3		mg/Kg		93	90 - 110

Lab Sample ID: 600-211219-1 MS
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: SB-1-S-0-.5-200914
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Chloride	10.3	F1	208	176.0		mg/Kg	⊛	80	80 - 120

Lab Sample ID: 600-211219-1 MSD
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: SB-1-S-0-.5-200914
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Chloride	10.3	F1	208	167.7	F1	mg/Kg	⊛	76	80 - 120	5	20

Lab Sample ID: 600-211219-11 MS
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: SB-10-S-0-.25-200914
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Chloride	3480		10100	11600		mg/Kg	⊛	80	80 - 120

Lab Sample ID: 600-211219-11 MSD
Matrix: Solid
Analysis Batch: 304410

Client Sample ID: SB-10-S-0-.25-200914
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Chloride	3480		10100	12380		mg/Kg	⊛	88	80 - 120	6	20

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Method: 2540B - Percent Moisture

Lab Sample ID: 600-211219-4 DU
Matrix: Solid
Analysis Batch: 303573

Client Sample ID: SB-3-S-0-.5-200914
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Percent Moisture	13.2		14.4		%		9		20
Percent Solids	86.8		85.6		%		1		20

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Unadjusted Detection Limits

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

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

Prep: 5030C

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

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

Prep: 5030C

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

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

Prep: 3546

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

GC/MS VOA

Prep Batch: 303513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	5030C	
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-5	SB-4-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-10	SB-9-S-0-.25-200914	Total/NA	Solid	5030C	

Analysis Batch: 303823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	8260C	303513
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	8260C	303513
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	8260C	303513
600-211219-5	SB-4-S-0-.5-200914	Total/NA	Solid	8260C	303513
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	8260C	303513
MB 600-303823/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-303823/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-303823/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 303854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-10	SB-9-S-0-.25-200914	Total/NA	Solid	8260C	303513
MB 600-303854/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-303854/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-303854/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 303919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	8260C	303930
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	8260C	303930
600-211219-8	SB-7-S-0-.5-200914	Total/NA	Solid	8260C	303930
600-211219-9	SB-8-S-0-.5-200914	Total/NA	Solid	8260C	303930
600-211219-11	SB-10-S-0-.25-200914	Total/NA	Solid	8260C	303930
MB 600-303919/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-303919/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-303919/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 303930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	5030C	
600-211219-8	SB-7-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-9	SB-8-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-11	SB-10-S-0-.25-200914	Total/NA	Solid	5030C	

GC VOA

Prep Batch: 303519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	5030C	
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	5030C	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

GC VOA (Continued)

Prep Batch: 303519 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-5	SB-4-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	5030C	
600-211219-8	SB-7-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-9	SB-8-S-0-.5-200914	Total/NA	Solid	5030C	
600-211219-10	SB-9-S-0-.25-200914	Total/NA	Solid	5030C	
600-211219-11	SB-10-S-0-.25-200914	Total/NA	Solid	5030C	
MB 600-303519/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-303519/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-303519/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Analysis Batch: 303560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	8015D	303519
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	8015D	303519
MB 600-303519/3-A	Method Blank	Total/NA	Solid	8015D	303519
LCS 600-303519/1-A	Lab Control Sample	Total/NA	Solid	8015D	303519
LCSD 600-303519/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	303519

Analysis Batch: 303786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-5	SB-4-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	8015D	303519
600-211219-8	SB-7-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-9	SB-8-S-0-.5-200914	Total/NA	Solid	8015D	303519
600-211219-10	SB-9-S-0-.25-200914	Total/NA	Solid	8015D	303519
600-211219-11	SB-10-S-0-.25-200914	Total/NA	Solid	8015D	303519

GC Semi VOA

Prep Batch: 303630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	3546	
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-5 - DL	SB-4-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	3546	
600-211219-8 - DL	SB-7-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-9 - DL	SB-8-S-0-.5-200914	Total/NA	Solid	3546	
600-211219-10 - DL	SB-9-S-0-.25-200914	Total/NA	Solid	3546	
600-211219-11 - DL	SB-10-S-0-.25-200914	Total/NA	Solid	3546	
MB 600-303630/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-303630/2-A	Lab Control Sample	Total/NA	Solid	3546	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

GC Semi VOA

Analysis Batch: 303943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	8015D	303630
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-5 - DL	SB-4-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	8015D	303630
600-211219-8 - DL	SB-7-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-9 - DL	SB-8-S-0-.5-200914	Total/NA	Solid	8015D	303630
600-211219-10 - DL	SB-9-S-0-.25-200914	Total/NA	Solid	8015D	303630
600-211219-11 - DL	SB-10-S-0-.25-200914	Total/NA	Solid	8015D	303630
MB 600-303630/1-A	Method Blank	Total/NA	Solid	8015D	303630
LCS 600-303630/2-A	Lab Control Sample	Total/NA	Solid	8015D	303630

HPLC/IC

Analysis Batch: 304410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-2	SB-1-S-1-1.5-200914	Soluble	Solid	300.0	304427
600-211219-3	SB-2-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-4	SB-3-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-5	SB-4-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-6	SB-5-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-7	SB-6-S-0-.25-200914	Soluble	Solid	300.0	304427
600-211219-8	SB-7-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-9	SB-8-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-10	SB-9-S-0-.25-200914	Soluble	Solid	300.0	304427
600-211219-11	SB-10-S-0-.25-200914	Soluble	Solid	300.0	304427
MB 600-304427/1-A	Method Blank	Soluble	Solid	300.0	304427
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	300.0	304427
600-211219-1 MS	SB-1-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-1 MSD	SB-1-S-0-.5-200914	Soluble	Solid	300.0	304427
600-211219-11 MS	SB-10-S-0-.25-200914	Soluble	Solid	300.0	304427
600-211219-11 MSD	SB-10-S-0-.25-200914	Soluble	Solid	300.0	304427

Leach Batch: 304427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-2	SB-1-S-1-1.5-200914	Soluble	Solid	DI Leach	
600-211219-3	SB-2-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-4	SB-3-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-5	SB-4-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-6	SB-5-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-7	SB-6-S-0-.25-200914	Soluble	Solid	DI Leach	
600-211219-8	SB-7-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-9	SB-8-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-10	SB-9-S-0-.25-200914	Soluble	Solid	DI Leach	
600-211219-11	SB-10-S-0-.25-200914	Soluble	Solid	DI Leach	
MB 600-304427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

HPLC/IC (Continued)

Leach Batch: 304427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1 MS	SB-1-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-1 MSD	SB-1-S-0-.5-200914	Soluble	Solid	DI Leach	
600-211219-11 MS	SB-10-S-0-.25-200914	Soluble	Solid	DI Leach	
600-211219-11 MSD	SB-10-S-0-.25-200914	Soluble	Solid	DI Leach	

General Chemistry

Analysis Batch: 303573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211219-1	SB-1-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-2	SB-1-S-1-1.5-200914	Total/NA	Solid	2540B	
600-211219-3	SB-2-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-4	SB-3-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-5	SB-4-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-6	SB-5-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-7	SB-6-S-0-.25-200914	Total/NA	Solid	2540B	
600-211219-8	SB-7-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-9	SB-8-S-0-.5-200914	Total/NA	Solid	2540B	
600-211219-10	SB-9-S-0-.25-200914	Total/NA	Solid	2540B	
600-211219-11	SB-10-S-0-.25-200914	Total/NA	Solid	2540B	
600-211219-4 DU	SB-3-S-0-.5-200914	Total/NA	Solid	2540B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-1-S-0-.5-200914

Lab Sample ID: 600-211219-1

Date Collected: 09/14/20 11:53

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-1-S-0-.5-200914

Lab Sample ID: 600-211219-1

Date Collected: 09/14/20 11:53

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303823	09/18/20 20:05	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303560	09/16/20 14:09	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 11:13	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		2	304410	09/29/20 14:43	DAW	TAL HOU

Client Sample ID: SB-1-S-1-1.5-200914

Lab Sample ID: 600-211219-2

Date Collected: 09/14/20 12:11

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-1-S-1-1.5-200914

Lab Sample ID: 600-211219-2

Date Collected: 09/14/20 12:11

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303823	09/18/20 20:30	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303560	09/16/20 15:00	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 11:51	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		1	304410	09/29/20 15:44	DAW	TAL HOU

Client Sample ID: SB-2-S-0-.5-200914

Lab Sample ID: 600-211219-3

Date Collected: 09/14/20 12:23

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-2-S-0-.5-200914

Lab Sample ID: 600-211219-3

Date Collected: 09/14/20 12:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 13:30	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303919	09/21/20 15:12	KLV	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303560	09/16/20 15:25	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 14:49	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		1	304410	09/29/20 16:04	DAW	TAL HOU

Client Sample ID: SB-3-S-0-.5-200914

Lab Sample ID: 600-211219-4

Date Collected: 09/14/20 12:43

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-3-S-0-.5-200914

Lab Sample ID: 600-211219-4

Date Collected: 09/14/20 12:43

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303823	09/18/20 21:21	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 10:21	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 15:21	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		1	304410	09/29/20 16:24	DAW	TAL HOU

Client Sample ID: SB-4-S-0-.5-200914

Lab Sample ID: 600-211219-5

Date Collected: 09/14/20 12:55

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-4-S-0-.5-200914

Lab Sample ID: 600-211219-5

Date Collected: 09/14/20 12:55

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303823	09/18/20 21:47	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 10:46	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-4-S-0-.5-200914

Lab Sample ID: 600-211219-5

Date Collected: 09/14/20 12:55

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	5	303943	09/22/20 15:53	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304410	09/29/20 17:07	DAW	TAL HOU

Client Sample ID: SB-5-S-0-.5-200914

Lab Sample ID: 600-211219-6

Date Collected: 09/14/20 14:23

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-5-S-0-.5-200914

Lab Sample ID: 600-211219-6

Date Collected: 09/14/20 14:23

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303823	09/18/20 22:12	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 11:11	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 16:25	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304410	09/29/20 17:27	DAW	TAL HOU

Client Sample ID: SB-6-S-0-.25-200914

Lab Sample ID: 600-211219-7

Date Collected: 09/14/20 14:44

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-6-S-0-.25-200914

Lab Sample ID: 600-211219-7

Date Collected: 09/14/20 14:44

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 13:30	KLK	TAL HOU
Total/NA	Analysis	8260C		1	303919	09/21/20 15:34	KLK	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 11:35	WS1	TAL HOU
Total/NA	Prep	3546			303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D		1	303943	09/22/20 16:57	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		25	304410	09/29/20 18:29	DAW	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-7-S-0-.5-200914

Lab Sample ID: 600-211219-8

Date Collected: 09/14/20 14:51

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-7-S-0-.5-200914

Lab Sample ID: 600-211219-8

Date Collected: 09/14/20 14:51

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 13:30	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303919	09/21/20 15:56	KLV	TAL HOU
Total/NA	Prep	5030C			303519	09/15/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 12:00	WS1	TAL HOU
Total/NA	Prep	3546	DL		303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	20	303943	09/22/20 18:01	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304410	09/29/20 18:49	DAW	TAL HOU

Client Sample ID: SB-8-S-0-.5-200914

Lab Sample ID: 600-211219-9

Date Collected: 09/14/20 15:09

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-8-S-0-.5-200914

Lab Sample ID: 600-211219-9

Date Collected: 09/14/20 15:09

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 13:30	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303919	09/21/20 16:18	KLV	TAL HOU
Total/NA	Prep	5030C			303519	09/16/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 12:25	WS1	TAL HOU
Total/NA	Prep	3546	DL		303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	50	303943	09/23/20 10:21	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		1	304410	09/29/20 19:10	DAW	TAL HOU

Client Sample ID: SB-9-S-0-.25-200914

Lab Sample ID: 600-211219-10

Date Collected: 09/14/20 15:12

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - VC GB Site

Job ID: 600-211219-1

Client Sample ID: SB-9-S-0-.25-200914

Lab Sample ID: 600-211219-10

Date Collected: 09/14/20 15:12

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303513	09/15/20 15:52	WS1	TAL HOU
Total/NA	Analysis	8260C		1	303854	09/19/20 14:18	WS1	TAL HOU
Total/NA	Prep	5030C			303519	09/16/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 12:49	WS1	TAL HOU
Total/NA	Prep	3546	DL		303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	5	303943	09/23/20 10:53	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304410	09/29/20 19:30	DAW	TAL HOU

Client Sample ID: SB-10-S-0-.25-200914

Lab Sample ID: 600-211219-11

Date Collected: 09/14/20 15:19

Matrix: Solid

Date Received: 09/15/20 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303573	09/16/20 09:01	HAS	TAL HOU

Client Sample ID: SB-10-S-0-.25-200914

Lab Sample ID: 600-211219-11

Date Collected: 09/14/20 15:19

Matrix: Solid

Date Received: 09/15/20 10:38

Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 13:30	KLK	TAL HOU
Total/NA	Analysis	8260C		1	303919	09/21/20 16:40	KLK	TAL HOU
Total/NA	Prep	5030C			303519	09/16/20 15:34	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 13:14	WS1	TAL HOU
Total/NA	Prep	3546	DL		303630	09/16/20 13:29	EAT	TAL HOU
Total/NA	Analysis	8015D	DL	10	303943	09/22/20 19:37	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		100	304410	09/29/20 19:50	DAW	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 - VC GB Site

Job ID: 600-211219-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015D	3546	Solid	Oil Range Organics (C28-C36)

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- 13
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Eurofins TestAmerica, Houston
 6310 Roffway Street
 Houston, TX 77040
 Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record



Client Information Client Contact: Morgan Jordan Company: ARCADIS U.S., Inc. Address: 1717 W 6th St Suite 210 City: Austin State, Zip: TX 78103 Phone: 281 644 9437 Email: Jordan.Morgan@arcadis-us.com Project Name: Chevrom - VC GB Site Site: VCGB	Sampler J. Steinmann Phone: 619 851 8192 Lab PM: Kudchadkar, Sachin G E-Mail: Sachin.Kudchadkar@Eurofins.net Carrier Tracking No(s): COC No: 600-78892-21251.1 Page: 1 of 1 Job #:	Analysis Requested Due Date Requested: _____ TAT Requested (days): STD PO #: 30057161-0002B WO #: Project #: 60012666 SSOV#:	Total Number of Containers: 2 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
Special Instructions/Note: Sample Disposal: (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
600-211219 Chain of Custody 			
Sample Identification SB-1-S-0-S-200914 SB-1-S-1-1.5-200914 SB-2-S-0-S-200914 SB-3-S-0-S-200914 SB-4-S-0-S-200914 SB-5-S-0-S-200914 SB-6-S-0-S-200914 SB-7-S-0-S-200914 SB-8-S-0-S-200914 SB-9-S-0-S-200914 SB-10-S-0-S-200914	Sample Date 9/14/20 1153 1211 1223 1243 1255 1423 1444 1451 1509 1512 1519	Sample Type (C=Comp, G=grab) G G G G G G G G G G G G	Matrix (W=water, S=solid, O=wastewater, G=grab) Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: _____ Relinquished by: Justin... Relinquished by: _____ Relinquished by: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date/Time: 9/14/20 1700 Date/Time: _____ Date/Time: _____		Date/Time: 9/13/20 1038 Date/Time: _____ Date/Time: _____	
Company: ARCADIS Company Company: _____ Company: _____		Company: EIA Company: _____ Company: _____	
Cooler Temperature(s) °C and Other Remarks:			



Loc: 600

211219

20 SEP 15 10:38



Environment Testing
TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 9/15/20 10:38
 JOB NUMBER: _____ CLIENT: Arcadis
 UNPACKED BY: [Signature] CARRIER/DRIVER: FedEx
 Custody Seal Present: YES NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
3140	Y / N	Y / N	1.1	680	+0.1	1.2
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? YES NO

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:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 600-211219-1

Login Number: 211219

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-211288-1
Client Project/Site: Chevron - VC GB Site 9/15/20

For:
ARCADIS U.S. Inc
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Douglas Jordan

Authorized for release by:
10/9/2020 2:35:32 PM

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



LINKS

Review your project
results through
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Have a Question?



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www.eurofinsus.com/Env

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

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

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

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Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site 9/15/20

Laboratory Job ID: 600-211288-1

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Method Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-211288-1	SB-11-S-0-.5-200915	Solid	09/15/20 11:07	09/16/20 11:25	
600-211288-2	SB-12-S-0-.25-200915	Solid	09/15/20 11:22	09/16/20 11:25	
600-211288-3	SB-13-S-0-.25-200915	Solid	09/15/20 11:40	09/16/20 11:25	
600-211288-4	SB-14-S-0-.5-200915	Solid	09/15/20 11:49	09/16/20 11:25	
600-211288-5	SB-15-S-0-.25-200915	Solid	09/15/20 12:00	09/16/20 11:25	
600-211288-6	SB-16-S-0-.5-200915	Solid	09/15/20 12:15	09/16/20 11:25	
600-211288-7	SB-17-S-0-.25-200915	Solid	09/15/20 14:00	09/16/20 11:25	
600-211288-8	SB-18-S-0-.25-200915	Solid	09/15/20 14:08	09/16/20 11:25	
600-211288-9	SB-19-S-0-.5-200915	Solid	09/15/20 14:20	09/16/20 11:25	

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Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-11-S-0-.5-200915

Lab Sample ID: 600-211288-1

Date Collected: 09/15/20 11:07

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000645	U	0.00512	0.000645	mg/Kg	☼	09/21/20 17:40	09/22/20 23:07	1
Ethylbenzene	0.00104	U	0.00512	0.00104	mg/Kg	☼	09/21/20 17:40	09/22/20 23:07	1
Toluene	0.00708		0.00512	0.00141	mg/Kg	☼	09/21/20 17:40	09/22/20 23:07	1
Xylenes, Total	0.00116	U	0.00512	0.00116	mg/Kg	☼	09/21/20 17:40	09/22/20 23:07	1
Total BTEX	0.00708	J	0.0205	0.000645	mg/Kg	☼	09/21/20 17:40	09/22/20 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		61 - 130	09/21/20 17:40	09/22/20 23:07	1
4-Bromofluorobenzene	92		57 - 140	09/21/20 17:40	09/22/20 23:07	1
Dibromofluoromethane	71		68 - 140	09/21/20 17:40	09/22/20 23:07	1
Toluene-d8 (Surr)	123		50 - 130	09/21/20 17:40	09/22/20 23:07	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.572	U	0.976	0.572	mg/Kg	☼	09/18/20 06:49	09/18/20 13:39	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
a,a,a-Trifluorotoluene	93		70 - 130	09/18/20 06:49	09/18/20 13:39	1			

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2510		603	124	mg/Kg	☼	09/23/20 13:08	09/29/20 21:45	5
Oil Range Organics (C28-C36)	9190		603	364	mg/Kg	☼	09/23/20 13:08	09/29/20 21:45	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	85		60 - 140	09/23/20 13:08	09/29/20 21:45	5			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3870	F1	102	13.6	mg/Kg	☼		10/01/20 15:29	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	98.2		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-12-S-0-.25-200915

Lab Sample ID: 600-211288-2

Date Collected: 09/15/20 11:22

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000643	U	0.00511	0.000643	mg/Kg	☼	09/21/20 17:40	09/22/20 23:31	1
Ethylbenzene	0.00104	U	0.00511	0.00104	mg/Kg	☼	09/21/20 17:40	09/22/20 23:31	1
Toluene	0.0231		0.00511	0.00141	mg/Kg	☼	09/21/20 17:40	09/22/20 23:31	1
Xylenes, Total	0.00115	U	0.00511	0.00115	mg/Kg	☼	09/21/20 17:40	09/22/20 23:31	1
Total BTEX	0.0231		0.0204	0.000643	mg/Kg	☼	09/21/20 17:40	09/22/20 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		61 - 130	09/21/20 17:40	09/22/20 23:31	1
4-Bromofluorobenzene	85		57 - 140	09/21/20 17:40	09/22/20 23:31	1
Dibromofluoromethane	64	X	68 - 140	09/21/20 17:40	09/22/20 23:31	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-12-S-0-.25-200915

Lab Sample ID: 600-211288-2

Date Collected: 09/15/20 11:22

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		50 - 130	09/21/20 17:40	09/22/20 23:31	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.617	U	1.05	0.617	mg/Kg	☼	09/18/20 06:49	09/18/20 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	103		70 - 130	09/18/20 06:49	09/18/20 14:29	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]	9510		2430	500	mg/Kg	☼	09/23/20 13:08	09/29/20 22:16	20
Oil Range Organics (C28-C36)	40400		2430	1460	mg/Kg	☼	09/23/20 13:08	09/29/20 22:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	60 - 140	09/23/20 13:08	09/29/20 22:16	20

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4520		409	54.6	mg/Kg	☼		10/01/20 16:30	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	97.7		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-13-S-0-.25-200915

Lab Sample ID: 600-211288-3

Date Collected: 09/15/20 11:40

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000642	U	0.00509	0.000642	mg/Kg	☼	09/21/20 17:40	09/22/20 23:54	1
Ethylbenzene	0.00104	U	0.00509	0.00104	mg/Kg	☼	09/21/20 17:40	09/22/20 23:54	1
Toluene	0.00217	J	0.00509	0.00141	mg/Kg	☼	09/21/20 17:40	09/22/20 23:54	1
Xylenes, Total	0.00115	U	0.00509	0.00115	mg/Kg	☼	09/21/20 17:40	09/22/20 23:54	1
Total BTEX	0.00217	J	0.0204	0.000642	mg/Kg	☼	09/21/20 17:40	09/22/20 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		61 - 130	09/21/20 17:40	09/22/20 23:54	1
4-Bromofluorobenzene	83		57 - 140	09/21/20 17:40	09/22/20 23:54	1
Dibromofluoromethane	95		68 - 140	09/21/20 17:40	09/22/20 23:54	1
Toluene-d8 (Surr)	94		50 - 130	09/21/20 17:40	09/22/20 23:54	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.591	U	1.01	0.591	mg/Kg	☼	09/18/20 06:49	09/18/20 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		70 - 130	09/18/20 06:49	09/18/20 14:54	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-13-S-0-.25-200915

Lab Sample ID: 600-211288-3

Date Collected: 09/15/20 11:40

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	397		119	24.5	mg/Kg	☼	09/23/20 13:08	09/24/20 14:09	1
Oil Range Organics (C28-C36)	2550		119	71.6	mg/Kg	☼	09/23/20 13:08	09/24/20 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	139		60 - 140				09/23/20 13:08	09/24/20 14:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1730		40.5	5.41	mg/Kg	☼		10/01/20 16:51	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	98.8		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-14-S-0-.5-200915

Lab Sample ID: 600-211288-4

Date Collected: 09/15/20 11:49

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000644	U	0.00511	0.000644	mg/Kg	☼	09/21/20 17:40	09/23/20 00:18	1
Ethylbenzene	0.00104	U	0.00511	0.00104	mg/Kg	☼	09/21/20 17:40	09/23/20 00:18	1
Toluene	0.00206	J	0.00511	0.00141	mg/Kg	☼	09/21/20 17:40	09/23/20 00:18	1
Xylenes, Total	0.00115	U	0.00511	0.00115	mg/Kg	☼	09/21/20 17:40	09/23/20 00:18	1
Total BTEX	0.00206	J	0.0204	0.000644	mg/Kg	☼	09/21/20 17:40	09/23/20 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130				09/21/20 17:40	09/23/20 00:18	1
4-Bromofluorobenzene	89		57 - 140				09/21/20 17:40	09/23/20 00:18	1
Dibromofluoromethane	97		68 - 140				09/21/20 17:40	09/23/20 00:18	1
Toluene-d8 (Surr)	100		50 - 130				09/21/20 17:40	09/23/20 00:18	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.580	U	0.990	0.580	mg/Kg	☼	09/18/20 06:49	09/18/20 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	108		70 - 130				09/18/20 06:49	09/18/20 15:19	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]	627		122	25.2	mg/Kg	☼	09/23/20 13:08	09/24/20 14:41	1
Oil Range Organics (C28-C36)	2240		122	73.6	mg/Kg	☼	09/23/20 13:08	09/24/20 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	147	X	60 - 140				09/23/20 13:08	09/24/20 14:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650		40.8	5.45	mg/Kg	☼		10/01/20 17:11	10

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-14-S-0-.5-200915

Lab Sample ID: 600-211288-4

Date Collected: 09/15/20 11:49

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.0

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.0		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	98.0		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-15-S-0-.25-200915

Lab Sample ID: 600-211288-5

Date Collected: 09/15/20 12:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000639	U	0.00507	0.000639	mg/Kg	☼	09/24/20 11:30	09/24/20 16:55	1
Ethylbenzene	0.00104	U	0.00507	0.00104	mg/Kg	☼	09/24/20 11:30	09/24/20 16:55	1
Toluene	0.0113		0.00507	0.00140	mg/Kg	☼	09/24/20 11:30	09/24/20 16:55	1
Xylenes, Total	0.00115	U	0.00507	0.00115	mg/Kg	☼	09/24/20 11:30	09/24/20 16:55	1
Total BTEX	0.0113	J	0.0203	0.000639	mg/Kg	☼	09/24/20 11:30	09/24/20 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130	09/24/20 11:30	09/24/20 16:55	1
4-Bromofluorobenzene	75		57 - 140	09/24/20 11:30	09/24/20 16:55	1
Dibromofluoromethane	101		68 - 140	09/24/20 11:30	09/24/20 16:55	1
Toluene-d8 (Surr)	121		50 - 130	09/24/20 11:30	09/24/20 16:55	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.589	U	1.00	0.589	mg/Kg	☼	09/18/20 06:49	09/18/20 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130	09/18/20 06:49	09/18/20 15:44	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]	4770		578	119	mg/Kg	☼	09/23/20 13:08	09/24/20 15:13	5
Oil Range Organics (C28-C36)	19200		578	348	mg/Kg	☼	09/23/20 13:08	09/24/20 15:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		60 - 140	09/23/20 13:08	09/24/20 15:13	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4880		203	27.0	mg/Kg	☼		10/01/20 18:12	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.3		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	98.7		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-16-S-0-.5-200915

Lab Sample ID: 600-211288-6

Date Collected: 09/15/20 12:15

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000718	U	0.00570	0.000718	mg/Kg	☼	09/24/20 11:30	09/24/20 17:19	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-16-S-0-.5-200915

Lab Sample ID: 600-211288-6

Date Collected: 09/15/20 12:15

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 87.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00116	U	0.00570	0.00116	mg/Kg	☼	09/24/20 11:30	09/24/20 17:19	1
Toluene	0.00157	U	0.00570	0.00157	mg/Kg	☼	09/24/20 11:30	09/24/20 17:19	1
Xylenes, Total	0.00129	U	0.00570	0.00129	mg/Kg	☼	09/24/20 11:30	09/24/20 17:19	1
Total BTEX	0.000718	U	0.0228	0.000718	mg/Kg	☼	09/24/20 11:30	09/24/20 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		61 - 130	09/24/20 11:30	09/24/20 17:19	1
4-Bromofluorobenzene	83		57 - 140	09/24/20 11:30	09/24/20 17:19	1
Dibromofluoromethane	84		68 - 140	09/24/20 11:30	09/24/20 17:19	1
Toluene-d8 (Surr)	98		50 - 130	09/24/20 11:30	09/24/20 17:19	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.692	U	1.18	0.692	mg/Kg	☼	09/18/20 06:49	09/18/20 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		70 - 130	09/18/20 06:49	09/18/20 16:34	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	538		139	28.7	mg/Kg	☼	09/23/20 13:08	09/24/20 15:45	1
Oil Range Organics (C28-C36)	2400		139	84.0	mg/Kg	☼	09/23/20 13:08	09/24/20 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	136		60 - 140	09/23/20 13:08	09/24/20 15:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		45.7	6.10	mg/Kg	☼		10/01/20 18:33	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.5		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	87.5		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-17-S-0-.25-200915

Lab Sample ID: 600-211288-7

Date Collected: 09/15/20 14:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000636	U	0.00505	0.000636	mg/Kg	☼	09/21/20 17:40	09/23/20 15:09	1
Ethylbenzene	0.00103	U	0.00505	0.00103	mg/Kg	☼	09/21/20 17:40	09/23/20 15:09	1
Toluene	0.0256		0.00505	0.00139	mg/Kg	☼	09/21/20 17:40	09/23/20 15:09	1
Xylenes, Total	0.00243	J	0.00505	0.00114	mg/Kg	☼	09/21/20 17:40	09/23/20 15:09	1
Total BTEX	0.0280		0.0202	0.000636	mg/Kg	☼	09/21/20 17:40	09/23/20 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	65		61 - 130	09/21/20 17:40	09/23/20 15:09	1
4-Bromofluorobenzene	90		57 - 140	09/21/20 17:40	09/23/20 15:09	1
Dibromofluoromethane	93		68 - 140	09/21/20 17:40	09/23/20 15:09	1
Toluene-d8 (Surr)	102		50 - 130	09/21/20 17:40	09/23/20 15:09	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-17-S-0-.25-200915

Lab Sample ID: 600-211288-7

Date Collected: 09/15/20 14:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.6

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.574	U	0.979	0.574	mg/Kg	☼	09/18/20 06:49	09/18/20 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130				09/18/20 06:49	09/18/20 16:59	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]	2140		607	125	mg/Kg	☼	09/23/20 13:08	09/24/20 16:17	5
Oil Range Organics (C28-C36)	12100		607	366	mg/Kg	☼	09/23/20 13:08	09/24/20 16:17	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	133		60 - 140				09/23/20 13:08	09/24/20 16:17	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		40.6	5.41	mg/Kg	☼		10/01/20 18:53	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.4		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	98.6		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-18-S-0-.25-200915

Lab Sample ID: 600-211288-8

Date Collected: 09/15/20 14:08

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000635	U	0.00504	0.000635	mg/Kg	☼	09/21/20 17:40	09/23/20 15:31	1
Ethylbenzene	0.00103	U	0.00504	0.00103	mg/Kg	☼	09/21/20 17:40	09/23/20 15:31	1
Toluene	0.0364		0.00504	0.00139	mg/Kg	☼	09/21/20 17:40	09/23/20 15:31	1
Xylenes, Total	0.00193	J	0.00504	0.00114	mg/Kg	☼	09/21/20 17:40	09/23/20 15:31	1
Total BTEX	0.0383		0.0201	0.000635	mg/Kg	☼	09/21/20 17:40	09/23/20 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	64		61 - 130				09/21/20 17:40	09/23/20 15:31	1
4-Bromofluorobenzene	90		57 - 140				09/21/20 17:40	09/23/20 15:31	1
Dibromofluoromethane	89		68 - 140				09/21/20 17:40	09/23/20 15:31	1
Toluene-d8 (Surr)	100		50 - 130				09/21/20 17:40	09/23/20 15:31	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.565	U	0.964	0.565	mg/Kg	☼	09/18/20 06:49	09/18/20 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130				09/18/20 06:49	09/18/20 17:23	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]	7820		1200	248	mg/Kg	☼	09/23/20 13:08	09/29/20 22:48	10
Oil Range Organics (C28-C36)	30800		1200	724	mg/Kg	☼	09/23/20 13:08	09/29/20 22:48	10

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-18-S-0-.25-200915

Lab Sample ID: 600-211288-8

Date Collected: 09/15/20 14:08

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	97		60 - 140	09/23/20 13:08	09/29/20 22:48	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4640		205	27.3	mg/Kg	✱		10/01/20 19:13	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.3		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	97.7		1.0	1.0	%			09/17/20 09:06	1

Client Sample ID: SB-19-S-0-.5-200915

Lab Sample ID: 600-211288-9

Date Collected: 09/15/20 14:20

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 96.0

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000662	U	0.00525	0.000662	mg/Kg	✱	09/21/20 17:40	09/23/20 15:54	1
Ethylbenzene	0.00107	U	0.00525	0.00107	mg/Kg	✱	09/21/20 17:40	09/23/20 15:54	1
Toluene	0.0107		0.00525	0.00145	mg/Kg	✱	09/21/20 17:40	09/23/20 15:54	1
Xylenes, Total	0.00245	J	0.00525	0.00119	mg/Kg	✱	09/21/20 17:40	09/23/20 15:54	1
Total BTEX	0.0132	J	0.0210	0.000662	mg/Kg	✱	09/21/20 17:40	09/23/20 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	68		61 - 130	09/21/20 17:40	09/23/20 15:54	1
4-Bromofluorobenzene	97		57 - 140	09/21/20 17:40	09/23/20 15:54	1
Dibromofluoromethane	95		68 - 140	09/21/20 17:40	09/23/20 15:54	1
Toluene-d8 (Surr)	105		50 - 130	09/21/20 17:40	09/23/20 15:54	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.609	U	1.04	0.609	mg/Kg	✱	09/18/20 06:49	09/18/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	98		70 - 130	09/18/20 06:49	09/18/20 17:48	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11.4		8.60	1.77	mg/Kg	✱	09/24/20 13:18	09/29/20 21:13	1
Oil Range Organics (C28-C36)	78.8		8.60	5.18	mg/Kg	✱	09/24/20 13:18	09/29/20 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	95		60 - 140	09/24/20 13:18	09/29/20 21:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7370		417	55.6	mg/Kg	✱		10/01/20 19:34	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.0		1.0	1.0	%			09/17/20 09:06	1
Percent Solids	96.0		1.0	1.0	%			09/17/20 09:06	1

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

HPLC/IC

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

Glossary

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

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
600-211288-1	SB-11-S-0-.5-200915	78	92	71	123
600-211288-2	SB-12-S-0-.25-200915	85	85	64 X	108
600-211288-3	SB-13-S-0-.25-200915	94	83	95	94
600-211288-4	SB-14-S-0-.5-200915	84	89	97	100
600-211288-5	SB-15-S-0-.25-200915	81	75	101	121
600-211288-6	SB-16-S-0-.5-200915	81	83	84	98
600-211288-7	SB-17-S-0-.25-200915	65	90	93	102
600-211288-8	SB-18-S-0-.25-200915	64	90	89	100
600-211288-9	SB-19-S-0-.5-200915	68	97	95	105
LCS 600-303994/4	Lab Control Sample	72	92	93	90
LCS 600-304037/3	Lab Control Sample	86	108	97	100
LCS 600-304170/4	Lab Control Sample	75	90	101	95
LCSD 600-303994/5	Lab Control Sample Dup	77	92	94	87
LCSD 600-304037/4	Lab Control Sample Dup	85	101	96	95
LCSD 600-304170/5	Lab Control Sample Dup	71	95	97	86
MB 600-303994/7	Method Blank	80	84	102	98
MB 600-304037/6	Method Blank	91	104	97	99
MB 600-304170/7	Method Blank	69	71	89	96

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TFT1 (70-130)
600-211288-1	SB-11-S-0-.5-200915	93
600-211288-2	SB-12-S-0-.25-200915	103
600-211288-3	SB-13-S-0-.25-200915	97
600-211288-4	SB-14-S-0-.5-200915	108
600-211288-5	SB-15-S-0-.25-200915	105
600-211288-6	SB-16-S-0-.5-200915	94
600-211288-7	SB-17-S-0-.25-200915	104
600-211288-8	SB-18-S-0-.25-200915	102
600-211288-9	SB-19-S-0-.5-200915	98
LCS 600-303798/1-A	Lab Control Sample	91
LCSD 600-303798/2-A	Lab Control Sample Dup	92
MB 600-303798/3-A	Method Blank	91

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S. Inc

Job ID: 600-211288-1

Project/Site: Chevron - VC GB Site 9/15/20

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)
600-211288-1 - DL	SB-11-S-0-.5-200915	85
600-211288-2 - DL	SB-12-S-0-.25-200915	0 X
600-211288-3	SB-13-S-0-.25-200915	139
600-211288-4	SB-14-S-0-.5-200915	147 X
600-211288-5 - DL	SB-15-S-0-.25-200915	69
600-211288-6	SB-16-S-0-.5-200915	136
600-211288-7 - DL	SB-17-S-0-.25-200915	133
600-211288-8 - DL	SB-18-S-0-.25-200915	97
600-211288-9	SB-19-S-0-.5-200915	95
LCS 600-304095/2-A	Lab Control Sample	137
LCS 600-304198/2-A	Lab Control Sample	132
LCSD 600-304095/3-A	Lab Control Sample Dup	137
LCSD 600-304198/3-A	Lab Control Sample Dup	131
MB 600-304095/1-A	Method Blank	125
MB 600-304198/1-A	Method Blank	95

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Lab Sample ID: MB 600-303994/7
 Matrix: Solid
 Analysis Batch: 303994

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

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/22/20 16:39	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/22/20 16:39	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/22/20 16:39	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/22/20 16:39	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/22/20 16:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	80		61 - 130		09/22/20 16:39	1
4-Bromofluorobenzene	84		57 - 140		09/22/20 16:39	1
Dibromofluoromethane	102		68 - 140		09/22/20 16:39	1
Toluene-d8 (Surr)	98		50 - 130		09/22/20 16:39	1

Lab Sample ID: LCS 600-303994/4
 Matrix: Solid
 Analysis Batch: 303994

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.04867		mg/Kg		97	70 - 131
Ethylbenzene	0.0500	0.05386		mg/Kg		108	66 - 130
m-Xylene & p-Xylene	0.0500	0.05576		mg/Kg		112	64 - 130
o-Xylene	0.0500	0.05014		mg/Kg		100	62 - 130
Toluene	0.0500	0.05469		mg/Kg		109	67 - 130
Xylenes, Total	0.100	0.1059		mg/Kg		106	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	72		61 - 130
4-Bromofluorobenzene	92		57 - 140
Dibromofluoromethane	93		68 - 140
Toluene-d8 (Surr)	90		50 - 130

Lab Sample ID: LCSD 600-303994/5
 Matrix: Solid
 Analysis Batch: 303994

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.04482		mg/Kg		90	70 - 131	8	30
Ethylbenzene	0.0500	0.04404		mg/Kg		88	66 - 130	20	30
m-Xylene & p-Xylene	0.0500	0.04663		mg/Kg		93	64 - 130	18	30
o-Xylene	0.0500	0.04288		mg/Kg		86	62 - 130	16	30
Toluene	0.0500	0.04723		mg/Kg		94	67 - 130	15	30
Xylenes, Total	0.100	0.08951		mg/Kg		90	63 - 130	17	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	77		61 - 130
4-Bromofluorobenzene	92		57 - 140
Dibromofluoromethane	94		68 - 140
Toluene-d8 (Surr)	87		50 - 130

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QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Lab Sample ID: MB 600-304037/6
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/23/20 08:53	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/23/20 08:53	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/23/20 08:53	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/23/20 08:53	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/23/20 08:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		61 - 130		09/23/20 08:53	1
4-Bromofluorobenzene	104		57 - 140		09/23/20 08:53	1
Dibromofluoromethane	97		68 - 140		09/23/20 08:53	1
Toluene-d8 (Surr)	99		50 - 130		09/23/20 08:53	1

Lab Sample ID: LCS 600-304037/3
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05665		mg/Kg		113	70 - 131
Ethylbenzene	0.0500	0.05950		mg/Kg		119	66 - 130
m-Xylene & p-Xylene	0.0500	0.05824		mg/Kg		116	64 - 130
o-Xylene	0.0500	0.05982		mg/Kg		120	62 - 130
Toluene	0.0500	0.05840		mg/Kg		117	67 - 130
Xylenes, Total	0.100	0.1181		mg/Kg		118	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
4-Bromofluorobenzene	108		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	100		50 - 130

Lab Sample ID: LCSD 600-304037/4
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.05718		mg/Kg		114	70 - 131	1	30
Ethylbenzene	0.0500	0.05843		mg/Kg		117	66 - 130	2	30
m-Xylene & p-Xylene	0.0500	0.05759		mg/Kg		115	64 - 130	1	30
o-Xylene	0.0500	0.05730		mg/Kg		115	62 - 130	4	30
Toluene	0.0500	0.05841		mg/Kg		117	67 - 130	0	30
Xylenes, Total	0.100	0.1149		mg/Kg		115	63 - 130	3	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		61 - 130
4-Bromofluorobenzene	101		57 - 140
Dibromofluoromethane	96		68 - 140
Toluene-d8 (Surr)	95		50 - 130

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QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Lab Sample ID: MB 600-304170/7

Matrix: Solid

Analysis Batch: 304170

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/24/20 13:42	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/24/20 13:42	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/24/20 13:42	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/24/20 13:42	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/24/20 13:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	69		61 - 130		09/24/20 13:42	1
4-Bromofluorobenzene	71		57 - 140		09/24/20 13:42	1
Dibromofluoromethane	89		68 - 140		09/24/20 13:42	1
Toluene-d8 (Surr)	96		50 - 130		09/24/20 13:42	1

Lab Sample ID: LCS 600-304170/4

Matrix: Solid

Analysis Batch: 304170

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05325		mg/Kg		106	70 - 131
Ethylbenzene	0.0500	0.05402		mg/Kg		108	66 - 130
m-Xylene & p-Xylene	0.0500	0.04960		mg/Kg		99	64 - 130
o-Xylene	0.0500	0.04702		mg/Kg		94	62 - 130
Toluene	0.0500	0.05684		mg/Kg		114	67 - 130
Xylenes, Total	0.100	0.09662		mg/Kg		97	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	75		61 - 130
4-Bromofluorobenzene	90		57 - 140
Dibromofluoromethane	101		68 - 140
Toluene-d8 (Surr)	95		50 - 130

Lab Sample ID: LCSD 600-304170/5

Matrix: Solid

Analysis Batch: 304170

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.04128		mg/Kg		83	70 - 131	25	30
Ethylbenzene	0.0500	0.04910		mg/Kg		98	66 - 130	10	30
m-Xylene & p-Xylene	0.0500	0.04645		mg/Kg		93	64 - 130	7	30
o-Xylene	0.0500	0.04406		mg/Kg		88	62 - 130	6	30
Toluene	0.0500	0.04478		mg/Kg		90	67 - 130	24	30
Xylenes, Total	0.100	0.09051		mg/Kg		91	63 - 130	7	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	71		61 - 130
4-Bromofluorobenzene	95		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	86		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Lab Sample ID: MB 600-303798/3-A
 Matrix: Solid
 Analysis Batch: 303786

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 303798

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		09/18/20 06:49	09/18/20 09:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		70 - 130				09/18/20 06:49	09/18/20 09:32	1

Lab Sample ID: LCS 600-303798/1-A
 Matrix: Solid
 Analysis Batch: 303786

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 303798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.365		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	91		70 - 130				

Lab Sample ID: LCSD 600-303798/2-A
 Matrix: Solid
 Analysis Batch: 303786

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 303798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.482		mg/Kg		109	70 - 130	2	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	92		70 - 130						

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

Lab Sample ID: MB 600-304095/1-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24.9	U	121	24.9	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Oil Range Organics (C28-C36)	72.8	U	121	72.8	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				09/23/20 13:08	09/24/20 11:30	1

Lab Sample ID: LCS 600-304095/2-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	963	1169		mg/Kg		121	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

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

Lab Sample ID: LCS 600-304095/2-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304095

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	137		60 - 140

Lab Sample ID: LCSD 600-304095/3-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	919	1158		mg/Kg		126	66 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	137		60 - 140

Lab Sample ID: MB 600-304198/1-A
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 304198

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.70	U	8.25	1.70	mg/Kg		09/24/20 13:18	09/29/20 19:38	1
Oil Range Organics (C28-C36)	4.97	U	8.25	4.97	mg/Kg		09/24/20 13:18	09/29/20 19:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		60 - 140	09/24/20 13:18	09/29/20 19:38	1

Lab Sample ID: LCS 600-304198/2-A
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.6	83.31		mg/Kg		125	66 - 134

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

Lab Sample ID: LCSD 600-304198/3-A
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 304198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	66.6	80.93		mg/Kg		121	66 - 134	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	131		60 - 140

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-304427/1-A
 Matrix: Solid
 Analysis Batch: 304501

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			10/01/20 14:48	1

Lab Sample ID: LCS 600-304427/2-A
 Matrix: Solid
 Analysis Batch: 304501

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	185.8		mg/Kg		93	90 - 110

Lab Sample ID: 600-211288-1 MS
 Matrix: Solid
 Analysis Batch: 304501

Client Sample ID: SB-11-S-0-.5-200915
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3870	F1	2540	5877	F1	mg/Kg	⊛	79	80 - 120

Lab Sample ID: 600-211288-1 MSD
 Matrix: Solid
 Analysis Batch: 304501

Client Sample ID: SB-11-S-0-.5-200915
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	3870	F1	2540	5824	F1	mg/Kg	⊛	77	80 - 120	1	20

Method: 2540B - Percent Moisture

Lab Sample ID: 600-211288-6 DU
 Matrix: Solid
 Analysis Batch: 303694

Client Sample ID: SB-16-S-0-.5-200915
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	12.5		13.8		%		10	20
Percent Solids	87.5		86.2		%		2	20

Unadjusted Detection Limits

Client: ARCADIS U.S. Inc

Job ID: 600-211288-1

Project/Site: Chevron - VC GB Site 9/15/20

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

Prep: 5030C

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Total BTEX	0.0200	0.000630	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

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

Prep: 5030C

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

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

Prep: 3546

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

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

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

GC/MS VOA

Prep Batch: 303930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Total/NA	Solid	5030C	
600-211288-2	SB-12-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	5030C	
600-211288-7	SB-17-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-8	SB-18-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	5030C	

Analysis Batch: 303994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Total/NA	Solid	8260C	303930
600-211288-2	SB-12-S-0-.25-200915	Total/NA	Solid	8260C	303930
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	8260C	303930
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	8260C	303930
MB 600-303994/7	Method Blank	Total/NA	Solid	8260C	
LCS 600-303994/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-303994/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 304037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-7	SB-17-S-0-.25-200915	Total/NA	Solid	8260C	303930
600-211288-8	SB-18-S-0-.25-200915	Total/NA	Solid	8260C	303930
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	8260C	303930
MB 600-304037/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-304037/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-304037/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 304170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-5	SB-15-S-0-.25-200915	Total/NA	Solid	8260C	304176
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	8260C	304176
MB 600-304170/7	Method Blank	Total/NA	Solid	8260C	
LCS 600-304170/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-304170/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 304176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-5	SB-15-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	5030C	

GC VOA

Analysis Batch: 303786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Total/NA	Solid	8015D	303798
600-211288-2	SB-12-S-0-.25-200915	Total/NA	Solid	8015D	303798
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	8015D	303798
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	8015D	303798
600-211288-5	SB-15-S-0-.25-200915	Total/NA	Solid	8015D	303798
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	8015D	303798
600-211288-7	SB-17-S-0-.25-200915	Total/NA	Solid	8015D	303798

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QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

GC VOA (Continued)

Analysis Batch: 303786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-8	SB-18-S-0-.25-200915	Total/NA	Solid	8015D	303798
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	8015D	303798
MB 600-303798/3-A	Method Blank	Total/NA	Solid	8015D	303798
LCS 600-303798/1-A	Lab Control Sample	Total/NA	Solid	8015D	303798
LCSD 600-303798/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	303798

Prep Batch: 303798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Total/NA	Solid	5030C	
600-211288-2	SB-12-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	5030C	
600-211288-5	SB-15-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	5030C	
600-211288-7	SB-17-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-8	SB-18-S-0-.25-200915	Total/NA	Solid	5030C	
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	5030C	
MB 600-303798/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-303798/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-303798/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 304095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1 - DL	SB-11-S-0-.5-200915	Total/NA	Solid	3546	
600-211288-2 - DL	SB-12-S-0-.25-200915	Total/NA	Solid	3546	
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	3546	
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	3546	
600-211288-5 - DL	SB-15-S-0-.25-200915	Total/NA	Solid	3546	
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	3546	
600-211288-7 - DL	SB-17-S-0-.25-200915	Total/NA	Solid	3546	
600-211288-8 - DL	SB-18-S-0-.25-200915	Total/NA	Solid	3546	
MB 600-304095/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 304134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	8015D	304095
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	8015D	304095
600-211288-5 - DL	SB-15-S-0-.25-200915	Total/NA	Solid	8015D	304095
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	8015D	304095
600-211288-7 - DL	SB-17-S-0-.25-200915	Total/NA	Solid	8015D	304095
MB 600-304095/1-A	Method Blank	Total/NA	Solid	8015D	304095
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	8015D	304095
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	304095

Prep Batch: 304198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	3546	

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QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

GC Semi VOA (Continued)

Prep Batch: 304198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-304198/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304198/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-304198/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 304444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1 - DL	SB-11-S-0-.5-200915	Total/NA	Solid	8015D	304095
600-211288-2 - DL	SB-12-S-0-.25-200915	Total/NA	Solid	8015D	304095
600-211288-8 - DL	SB-18-S-0-.25-200915	Total/NA	Solid	8015D	304095
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	8015D	304198
MB 600-304198/1-A	Method Blank	Total/NA	Solid	8015D	304198
LCS 600-304198/2-A	Lab Control Sample	Total/NA	Solid	8015D	304198
LCSD 600-304198/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	304198

HPLC/IC

Leach Batch: 304427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Soluble	Solid	DI Leach	
600-211288-2	SB-12-S-0-.25-200915	Soluble	Solid	DI Leach	
600-211288-3	SB-13-S-0-.25-200915	Soluble	Solid	DI Leach	
600-211288-4	SB-14-S-0-.5-200915	Soluble	Solid	DI Leach	
600-211288-5	SB-15-S-0-.25-200915	Soluble	Solid	DI Leach	
600-211288-6	SB-16-S-0-.5-200915	Soluble	Solid	DI Leach	
600-211288-7	SB-17-S-0-.25-200915	Soluble	Solid	DI Leach	
600-211288-8	SB-18-S-0-.25-200915	Soluble	Solid	DI Leach	
600-211288-9	SB-19-S-0-.5-200915	Soluble	Solid	DI Leach	
MB 600-304427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-211288-1 MS	SB-11-S-0-.5-200915	Soluble	Solid	DI Leach	
600-211288-1 MSD	SB-11-S-0-.5-200915	Soluble	Solid	DI Leach	

Analysis Batch: 304501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Soluble	Solid	300.0	304427
600-211288-2	SB-12-S-0-.25-200915	Soluble	Solid	300.0	304427
600-211288-3	SB-13-S-0-.25-200915	Soluble	Solid	300.0	304427
600-211288-4	SB-14-S-0-.5-200915	Soluble	Solid	300.0	304427
600-211288-5	SB-15-S-0-.25-200915	Soluble	Solid	300.0	304427
600-211288-6	SB-16-S-0-.5-200915	Soluble	Solid	300.0	304427
600-211288-7	SB-17-S-0-.25-200915	Soluble	Solid	300.0	304427
600-211288-8	SB-18-S-0-.25-200915	Soluble	Solid	300.0	304427
600-211288-9	SB-19-S-0-.5-200915	Soluble	Solid	300.0	304427
MB 600-304427/1-A	Method Blank	Soluble	Solid	300.0	304427
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	300.0	304427
600-211288-1 MS	SB-11-S-0-.5-200915	Soluble	Solid	300.0	304427
600-211288-1 MSD	SB-11-S-0-.5-200915	Soluble	Solid	300.0	304427

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

General Chemistry

Analysis Batch: 303694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211288-1	SB-11-S-0-.5-200915	Total/NA	Solid	2540B	
600-211288-2	SB-12-S-0-.25-200915	Total/NA	Solid	2540B	
600-211288-3	SB-13-S-0-.25-200915	Total/NA	Solid	2540B	
600-211288-4	SB-14-S-0-.5-200915	Total/NA	Solid	2540B	
600-211288-5	SB-15-S-0-.25-200915	Total/NA	Solid	2540B	
600-211288-6	SB-16-S-0-.5-200915	Total/NA	Solid	2540B	
600-211288-7	SB-17-S-0-.25-200915	Total/NA	Solid	2540B	
600-211288-8	SB-18-S-0-.25-200915	Total/NA	Solid	2540B	
600-211288-9	SB-19-S-0-.5-200915	Total/NA	Solid	2540B	
600-211288-6 DU	SB-16-S-0-.5-200915	Total/NA	Solid	2540B	

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- 13
- 14

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-11-S-0-.5-200915

Lab Sample ID: 600-211288-1

Date Collected: 09/15/20 11:07

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-11-S-0-.5-200915

Lab Sample ID: 600-211288-1

Date Collected: 09/15/20 11:07

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303994	09/22/20 23:07	PXS	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 13:39	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304444	09/29/20 21:45	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		25	304501	10/01/20 15:29	DTN	TAL HOU

Client Sample ID: SB-12-S-0-.25-200915

Lab Sample ID: 600-211288-2

Date Collected: 09/15/20 11:22

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-12-S-0-.25-200915

Lab Sample ID: 600-211288-2

Date Collected: 09/15/20 11:22

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303994	09/22/20 23:31	PXS	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 14:29	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	20	304444	09/29/20 22:16	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		100	304501	10/01/20 16:30	DTN	TAL HOU

Client Sample ID: SB-13-S-0-.25-200915

Lab Sample ID: 600-211288-3

Date Collected: 09/15/20 11:40

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

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Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-13-S-0-.25-200915

Lab Sample ID: 600-211288-3

Date Collected: 09/15/20 11:40

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303994	09/22/20 23:54	PXS	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 14:54	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 14:09	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304501	10/01/20 16:51	DTN	TAL HOU

Client Sample ID: SB-14-S-0-.5-200915

Lab Sample ID: 600-211288-4

Date Collected: 09/15/20 11:49

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-14-S-0-.5-200915

Lab Sample ID: 600-211288-4

Date Collected: 09/15/20 11:49

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	303994	09/23/20 00:18	PXS	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 15:19	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 14:41	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304501	10/01/20 17:11	DTN	TAL HOU

Client Sample ID: SB-15-S-0-.25-200915

Lab Sample ID: 600-211288-5

Date Collected: 09/15/20 12:00

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-15-S-0-.25-200915

Lab Sample ID: 600-211288-5

Date Collected: 09/15/20 12:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			304176	09/24/20 11:30	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 16:55	KLV	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 15:44	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-15-S-0-.25-200915

Lab Sample ID: 600-211288-5

Date Collected: 09/15/20 12:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 15:13	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		50	304501	10/01/20 18:12	DTN	TAL HOU

Client Sample ID: SB-16-S-0-.5-200915

Lab Sample ID: 600-211288-6

Date Collected: 09/15/20 12:15

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-16-S-0-.5-200915

Lab Sample ID: 600-211288-6

Date Collected: 09/15/20 12:15

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			304176	09/24/20 11:30	KLK	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 17:19	KLK	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 16:34	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 15:45	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304501	10/01/20 18:33	DTN	TAL HOU

Client Sample ID: SB-17-S-0-.25-200915

Lab Sample ID: 600-211288-7

Date Collected: 09/15/20 14:00

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-17-S-0-.25-200915

Lab Sample ID: 600-211288-7

Date Collected: 09/15/20 14:00

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 98.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLK	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 15:09	WS1	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 16:59	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 16:17	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304501	10/01/20 18:53	DTN	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site 9/15/20

Job ID: 600-211288-1

Client Sample ID: SB-18-S-0-.25-200915

Lab Sample ID: 600-211288-8

Date Collected: 09/15/20 14:08

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-18-S-0-.25-200915

Lab Sample ID: 600-211288-8

Date Collected: 09/15/20 14:08

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 97.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 15:31	WS1	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 17:23	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	10	304444	09/29/20 22:48	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		50	304501	10/01/20 19:13	DTN	TAL HOU

Client Sample ID: SB-19-S-0-.5-200915

Lab Sample ID: 600-211288-9

Date Collected: 09/15/20 14:20

Matrix: Solid

Date Received: 09/16/20 11:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303694	09/17/20 09:06	HAS	TAL HOU

Client Sample ID: SB-19-S-0-.5-200915

Lab Sample ID: 600-211288-9

Date Collected: 09/15/20 14:20

Matrix: Solid

Date Received: 09/16/20 11:25

Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303930	09/21/20 17:40	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 15:54	WS1	TAL HOU
Total/NA	Prep	5030C			303798	09/18/20 06:49	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303786	09/18/20 17:48	WS1	TAL HOU
Total/NA	Prep	3546			304198	09/24/20 13:18	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304444	09/29/20 21:13	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		100	304501	10/01/20 19:34	DTN	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 - VC GB Site 9/15/20

Job ID: 600-211288-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015D	3546	Solid	Oil Range Organics (C28-C36)
8260C	5030C	Solid	Total BTEX

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

Chain of Custody Record

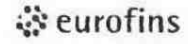


Client Information Client Contact: Morgan Jordan Company: AUSTIN Address: 1717 W 6th St Suite 210 TX 78704 Phone: 281 644 9437 Email: Justin.Nixon@arcardis.com Project Name: Chevron VC Site: VCGB		Sampler: J. Steinmann Phone: 619 851 8792 Lab PM: Kuchhadkar, Sachin G E-Mail: Sachin.Kuchhadkar@Eurofinset.com		Carrier Tracking No(s): 600-78889-21250.1 Page: 1 of 1 Job #:	
Due Date Requested: 9/15/20 TAT Requested (days): STD		Analysis Requested			
PO #: 30057086-30057161-0002B WO #:		Field Filtered Sample (Yes or No)			
Project #: 80072005-60012666 SSOW#:		Perform MS/MSD (Yes or No)			
Sample Identification		Preservation Codes			
SB-11-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1107	Sample Type (C=Comp, G=grab): G	Matrix (W=water, S=solid, O=oil, D=dust, etc.): Solid	8015D_DR0/RO: N
SB-12-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1122	Sample Type: Solid	Matrix: Solid	8015D_GRO: N
SB-13-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1140	Sample Type: Solid	Matrix: Solid	8026C_BTEX: N
SB-14-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1149	Sample Type: Solid	Matrix: Solid	300-Chloride: N
SB-15-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1200	Sample Type: Solid	Matrix: Solid	Moisture: N
SB-16-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1215	Sample Type: Solid	Matrix: Solid	
SB-17-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1400	Sample Type: Solid	Matrix: Solid	
SB-18-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1408	Sample Type: Solid	Matrix: Solid	
SB-19-S-0-S-200915	Sample Date: 9/15/20	Sample Time: 1420	Sample Type: Solid	Matrix: Solid	
Temp Blank					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: Justin Nixon		Received by: Arcadis Company			
Relinquished by:		Received by: Arcadis Company			
Relinquished by:		Received by: Arcadis Company			
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks:			



Loc: 600
211288

Eurofins TestAmerica Houston



Environment Testing
TestAmerica

Sample Receipt Checklist

Date/Time Received: 9/16/20 11:25 20 SEP 16 11:25

JOB NUMBER: _____

CLIENT: Arcadis

UNPACKED BY: To

CARRIER/DRIVER: FedEx

Custody Seal Present: YES NO

Number of Coolers Received: _____

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
<u>5471</u>	<u>Y / N</u>	<u>Y / N</u>	<u>4.8</u>	<u>680</u>	<u>+0.1</u>	<u>4.9</u>
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				
	<u>Y / N</u>	<u>Y / N</u>				

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 N/A

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

COMMENTS: _____

_____ To 9/16/20

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 600-211288-1

Login Number: 211288

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Olson, Troy 1

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	4.8
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-211412-1
Client Project/Site: Chevron - VC GB Site

For:
ARCADIS U.S. Inc
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Douglas Jordan

Authorized for release by:
10/6/2020 3:06:36 PM

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



LINKS

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

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

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

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Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Laboratory Job ID: 600-211412-1

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Method Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Protocol References:

ASTM = ASTM International

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

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

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-211412-1	SB-26-S-0-.5-200917	Solid	09/17/20 10:03	09/18/20 10:37	
600-211412-2	SB-27-S-0-.5-200917	Solid	09/17/20 10:20	09/18/20 10:37	
600-211412-3	SB-27-SD-0-.5-200917	Solid	09/17/20 10:20	09/18/20 10:37	
600-211412-4	SB-28-S-0-.5-200917	Solid	09/17/20 10:42	09/18/20 10:37	
600-211412-5	SB-28-S-1-2-200917	Solid	09/17/20 10:47	09/18/20 10:37	
600-211412-6	SB-29-S-0-.5-200917	Solid	09/17/20 11:23	09/18/20 10:37	
600-211412-7	SB-30-S-0-.5-200917	Solid	09/17/20 12:16	09/18/20 10:37	

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Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-26-S-0-.5-200917

Lab Sample ID: 600-211412-1

Date Collected: 09/17/20 10:03

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 93.7

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000671	U	0.00533	0.000671	mg/Kg	☼	09/21/20 17:50	09/23/20 16:16	1
Ethylbenzene	0.00109	U	0.00533	0.00109	mg/Kg	☼	09/21/20 17:50	09/23/20 16:16	1
Toluene	0.0202		0.00533	0.00147	mg/Kg	☼	09/21/20 17:50	09/23/20 16:16	1
Xylenes, Total	0.00189	J	0.00533	0.00120	mg/Kg	☼	09/21/20 17:50	09/23/20 16:16	1
Total BTEX	0.0221		0.0213	0.000671	mg/Kg	☼	09/21/20 17:50	09/23/20 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		61 - 130	09/21/20 17:50	09/23/20 16:16	1
4-Bromofluorobenzene	91		57 - 140	09/21/20 17:50	09/23/20 16:16	1
Dibromofluoromethane	93		68 - 140	09/21/20 17:50	09/23/20 16:16	1
Toluene-d8 (Surr)	100		50 - 130	09/21/20 17:50	09/23/20 16:16	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.732	J	1.02	0.599	mg/Kg	☼	09/19/20 06:58	09/19/20 09:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		70 - 130	09/19/20 06:58	09/19/20 09:25	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]	2000		651	134	mg/Kg	☼	09/23/20 13:16	09/24/20 23:11	5
Oil Range Organics (C28-C36)	11400		651	392	mg/Kg	☼	09/23/20 13:16	09/24/20 23:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	131		60 - 140	09/23/20 13:16	09/24/20 23:11	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	953	F1	42.7	5.70	mg/Kg	☼		10/02/20 18:35	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.3		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	93.7		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-27-S-0-.5-200917

Lab Sample ID: 600-211412-2

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000745	U	0.00592	0.000745	mg/Kg	☼	09/21/20 17:50	09/23/20 16:38	1
Ethylbenzene	0.00121	U	0.00592	0.00121	mg/Kg	☼	09/21/20 17:50	09/23/20 16:38	1
Toluene	0.00313	J	0.00592	0.00163	mg/Kg	☼	09/21/20 17:50	09/23/20 16:38	1
Xylenes, Total	0.00134	U	0.00592	0.00134	mg/Kg	☼	09/21/20 17:50	09/23/20 16:38	1
Total BTEX	0.00313	J	0.0237	0.000745	mg/Kg	☼	09/21/20 17:50	09/23/20 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	66		61 - 130	09/21/20 17:50	09/23/20 16:38	1
4-Bromofluorobenzene	96		57 - 140	09/21/20 17:50	09/23/20 16:38	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-27-S-0-.5-200917

Lab Sample ID: 600-211412-2

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	93		68 - 140	09/21/20 17:50	09/23/20 16:38	1
Toluene-d8 (Surr)	102		50 - 130	09/21/20 17:50	09/23/20 16:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.701	U	1.20	0.701	mg/Kg	☼	09/19/20 06:58	09/19/20 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130	09/19/20 06:58	09/19/20 09:49	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	233		151	31.1	mg/Kg	☼	09/23/20 13:16	09/24/20 23:43	1
Oil Range Organics (C28-C36)	1610		151	91.0	mg/Kg	☼	09/23/20 13:16	09/24/20 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	109		60 - 140	09/23/20 13:16	09/24/20 23:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	953		49.5	6.61	mg/Kg	☼		10/02/20 19:37	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.2		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	80.8		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-27-SD-0-.5-200917

Lab Sample ID: 600-211412-3

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 93.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000678	U	0.00538	0.000678	mg/Kg	☼	09/21/20 17:50	09/23/20 17:01	1
Ethylbenzene	0.00110	U	0.00538	0.00110	mg/Kg	☼	09/21/20 17:50	09/23/20 17:01	1
Toluene	0.00592		0.00538	0.00148	mg/Kg	☼	09/21/20 17:50	09/23/20 17:01	1
Xylenes, Total	0.00122	U	0.00538	0.00122	mg/Kg	☼	09/21/20 17:50	09/23/20 17:01	1
Total BTEX	0.00592	J	0.0215	0.000678	mg/Kg	☼	09/21/20 17:50	09/23/20 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		61 - 130	09/21/20 17:50	09/23/20 17:01	1
4-Bromofluorobenzene	98		57 - 140	09/21/20 17:50	09/23/20 17:01	1
Dibromofluoromethane	92		68 - 140	09/21/20 17:50	09/23/20 17:01	1
Toluene-d8 (Surr)	101		50 - 130	09/21/20 17:50	09/23/20 17:01	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.659	U	1.13	0.659	mg/Kg	☼	09/19/20 06:58	09/19/20 10:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	104		70 - 130	09/19/20 06:58	09/19/20 10:14	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-27-SD-0-.5-200917

Lab Sample ID: 600-211412-3

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 93.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	172		127	26.2	mg/Kg	☼	09/23/20 13:16	09/25/20 00:14	1
Oil Range Organics (C28-C36)	1270		127	76.7	mg/Kg	☼	09/23/20 13:16	09/25/20 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	127		60 - 140				09/23/20 13:16	09/25/20 00:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		42.9	5.73	mg/Kg	☼		10/02/20 19:57	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	93.2		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-28-S-0-.5-200917

Lab Sample ID: 600-211412-4

Date Collected: 09/17/20 10:42

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 94.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000657	U	0.00521	0.000657	mg/Kg	☼	09/21/20 17:50	09/23/20 17:23	1
Ethylbenzene	0.00106	U	0.00521	0.00106	mg/Kg	☼	09/21/20 17:50	09/23/20 17:23	1
Toluene	0.0147		0.00521	0.00144	mg/Kg	☼	09/21/20 17:50	09/23/20 17:23	1
Xylenes, Total	0.00173	J	0.00521	0.00118	mg/Kg	☼	09/21/20 17:50	09/23/20 17:23	1
Total BTEX	0.0164	J	0.0209	0.000657	mg/Kg	☼	09/21/20 17:50	09/23/20 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		61 - 130				09/21/20 17:50	09/23/20 17:23	1
4-Bromofluorobenzene	95		57 - 140				09/21/20 17:50	09/23/20 17:23	1
Dibromofluoromethane	97		68 - 140				09/21/20 17:50	09/23/20 17:23	1
Toluene-d8 (Surr)	104		50 - 130				09/21/20 17:50	09/23/20 17:23	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.635	U	1.08	0.635	mg/Kg	☼	09/19/20 06:58	09/19/20 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	102		70 - 130				09/19/20 06:58	09/19/20 10:38	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	47.3		8.81	1.81	mg/Kg	☼	09/23/20 13:53	09/29/20 15:54	1
Oil Range Organics (C28-C36)	136		8.81	5.30	mg/Kg	☼	09/23/20 13:53	09/29/20 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		60 - 140				09/23/20 13:53	09/29/20 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		21.2	2.83	mg/Kg	☼		10/02/20 20:18	5

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-28-S-0-.5-200917

Lab Sample ID: 600-211412-4

Date Collected: 09/17/20 10:42

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 94.2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	94.2		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-28-S-1-2-200917

Lab Sample ID: 600-211412-5

Date Collected: 09/17/20 10:47

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 79.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000751	U	0.00596	0.000751	mg/Kg	☼	09/21/20 17:50	09/23/20 17:45	1
Ethylbenzene	0.00122	U	0.00596	0.00122	mg/Kg	☼	09/21/20 17:50	09/23/20 17:45	1
Toluene	0.00261	J	0.00596	0.00164	mg/Kg	☼	09/21/20 17:50	09/23/20 17:45	1
Xylenes, Total	0.00135	U	0.00596	0.00135	mg/Kg	☼	09/21/20 17:50	09/23/20 17:45	1
Total BTEX	0.00261	J	0.0238	0.000751	mg/Kg	☼	09/21/20 17:50	09/23/20 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	70		61 - 130	09/21/20 17:50	09/23/20 17:45	1
4-Bromofluorobenzene	97		57 - 140	09/21/20 17:50	09/23/20 17:45	1
Dibromofluoromethane	94		68 - 140	09/21/20 17:50	09/23/20 17:45	1
Toluene-d8 (Surr)	100		50 - 130	09/21/20 17:50	09/23/20 17:45	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.759	U	1.29	0.759	mg/Kg	☼	09/19/20 06:58	09/19/20 11:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		70 - 130	09/19/20 06:58	09/19/20 11:03	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35.5		10.4	2.14	mg/Kg	☼	09/23/20 13:53	09/29/20 16:26	1
Oil Range Organics (C28-C36)	75.0		10.4	6.27	mg/Kg	☼	09/23/20 13:53	09/29/20 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		60 - 140	09/23/20 13:53	09/29/20 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		50.1	6.69	mg/Kg	☼		10/02/20 20:38	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.2		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	79.8		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-29-S-0-.5-200917

Lab Sample ID: 600-211412-6

Date Collected: 09/17/20 11:23

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 74.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000823	U	0.00653	0.000823	mg/Kg	☼	09/21/20 17:50	09/24/20 14:30	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-29-S-0-.5-200917

Lab Sample ID: 600-211412-6

Date Collected: 09/17/20 11:23

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 74.2

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00133	U	0.00653	0.00133	mg/Kg	☼	09/21/20 17:50	09/24/20 14:30	1
Toluene	0.00481	J	0.00653	0.00180	mg/Kg	☼	09/21/20 17:50	09/24/20 14:30	1
Xylenes, Total	0.00148	U	0.00653	0.00148	mg/Kg	☼	09/21/20 17:50	09/24/20 14:30	1
Total BTEX	0.00481	J	0.0261	0.000823	mg/Kg	☼	09/21/20 17:50	09/24/20 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	69		61 - 130				09/21/20 17:50	09/24/20 14:30	1
4-Bromofluorobenzene	100		57 - 140				09/21/20 17:50	09/24/20 14:30	1
Dibromofluoromethane	92		68 - 140				09/21/20 17:50	09/24/20 14:30	1
Toluene-d8 (Surr)	98		50 - 130				09/21/20 17:50	09/24/20 14:30	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.804	U	1.37	0.804	mg/Kg	☼	09/19/20 06:58	09/19/20 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		70 - 130				09/19/20 06:58	09/19/20 11:27	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	187	F2 F1	11.2	2.31	mg/Kg	☼	09/23/20 13:53	09/29/20 16:58	1
Oil Range Organics (C28-C36)	359		11.2	6.74	mg/Kg	☼	09/23/20 13:53	09/29/20 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		60 - 140				09/23/20 13:53	09/29/20 16:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		10.8	1.44	mg/Kg	☼		10/02/20 20:58	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.8		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	74.2		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-30-S-0-.5-200917

Lab Sample ID: 600-211412-7

Date Collected: 09/17/20 12:16

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 97.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000672	J	0.00462	0.000582	mg/Kg	☼	09/21/20 17:50	09/24/20 14:52	1
Ethylbenzene	0.000942	U	0.00462	0.000942	mg/Kg	☼	09/21/20 17:50	09/24/20 14:52	1
Toluene	0.0113		0.00462	0.00127	mg/Kg	☼	09/21/20 17:50	09/24/20 14:52	1
Xylenes, Total	0.00204	J	0.00462	0.00104	mg/Kg	☼	09/21/20 17:50	09/24/20 14:52	1
Total BTEX	0.0140	J	0.0185	0.000582	mg/Kg	☼	09/21/20 17:50	09/24/20 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		61 - 130				09/21/20 17:50	09/24/20 14:52	1
4-Bromofluorobenzene	105		57 - 140				09/21/20 17:50	09/24/20 14:52	1
Dibromofluoromethane	93		68 - 140				09/21/20 17:50	09/24/20 14:52	1
Toluene-d8 (Surr)	100		50 - 130				09/21/20 17:50	09/24/20 14:52	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-30-S-0-.5-200917

Lab Sample ID: 600-211412-7

Date Collected: 09/17/20 12:16

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 97.4

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.637	J	0.961	0.563	mg/Kg	☼	09/19/20 06:58	09/19/20 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	105		70 - 130				09/19/20 06:58	09/19/20 11:52	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]	56.8		8.51	1.75	mg/Kg	☼	09/23/20 13:53	09/29/20 18:34	1
Oil Range Organics (C28-C36)	322		8.51	5.13	mg/Kg	☼	09/23/20 13:53	09/29/20 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		60 - 140				09/23/20 13:53	09/29/20 18:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		8.22	1.10	mg/Kg	☼		10/02/20 22:00	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	97.4		1.0	1.0	%			09/21/20 15:30	1

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.

Glossary

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

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Glossary (Continued)

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
600-211412-1	SB-26-S-0-.5-200917	70	91	93	100
600-211412-2	SB-27-S-0-.5-200917	66	96	93	102
600-211412-3	SB-27-SD-0-.5-200917	70	98	92	101
600-211412-4	SB-28-S-0-.5-200917	72	95	97	104
600-211412-5	SB-28-S-1-2-200917	70	97	94	100
600-211412-6	SB-29-S-0-.5-200917	69	100	92	98
600-211412-7	SB-30-S-0-.5-200917	75	105	93	100
LCS 600-304037/3	Lab Control Sample	86	108	97	100
LCS 600-304172/3	Lab Control Sample	71	102	95	96
LCSD 600-304037/4	Lab Control Sample Dup	85	101	96	95
LCSD 600-304172/4	Lab Control Sample Dup	75	102	97	94
MB 600-304037/6	Method Blank	91	104	97	99
MB 600-304172/6	Method Blank	68	102	94	105

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TFT1 (70-130)
600-211412-1	SB-26-S-0-.5-200917	95
600-211412-2	SB-27-S-0-.5-200917	99
600-211412-3	SB-27-SD-0-.5-200917	104
600-211412-4	SB-28-S-0-.5-200917	102
600-211412-5	SB-28-S-1-2-200917	102
600-211412-6	SB-29-S-0-.5-200917	87
600-211412-7	SB-30-S-0-.5-200917	105
LCS 600-303859/1-A	Lab Control Sample	91
LCSD 600-303859/2-A	Lab Control Sample Dup	91
MB 600-303859/3-A	Method Blank	91

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (60-140)
600-211412-1 - DL	SB-26-S-0-.5-200917	131
600-211412-2	SB-27-S-0-.5-200917	109
600-211412-3	SB-27-SD-0-.5-200917	127
600-211412-4	SB-28-S-0-.5-200917	99
600-211412-5	SB-28-S-1-2-200917	79

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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)
600-211412-6	SB-29-S-0-.5-200917	66
600-211412-6 MS	SB-29-S-0-.5-200917	66
600-211412-6 MSD	SB-29-S-0-.5-200917	68
600-211412-7	SB-30-S-0-.5-200917	74
LCS 600-304095/2-A	Lab Control Sample	137
LCS 600-304102/2-A	Lab Control Sample	129
LCSD 600-304095/3-A	Lab Control Sample Dup	137
MB 600-304095/1-A	Method Blank	125
MB 600-304102/1-A	Method Blank	117

Surrogate Legend

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Lab Sample ID: MB 600-304037/6
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/23/20 08:53	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/23/20 08:53	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/23/20 08:53	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/23/20 08:53	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/23/20 08:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		61 - 130		09/23/20 08:53	1
4-Bromofluorobenzene	104		57 - 140		09/23/20 08:53	1
Dibromofluoromethane	97		68 - 140		09/23/20 08:53	1
Toluene-d8 (Surr)	99		50 - 130		09/23/20 08:53	1

Lab Sample ID: LCS 600-304037/3
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05665		mg/Kg		113	70 - 131
Ethylbenzene	0.0500	0.05950		mg/Kg		119	66 - 130
m-Xylene & p-Xylene	0.0500	0.05824		mg/Kg		116	64 - 130
o-Xylene	0.0500	0.05982		mg/Kg		120	62 - 130
Toluene	0.0500	0.05840		mg/Kg		117	67 - 130
Xylenes, Total	0.100	0.1181		mg/Kg		118	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		61 - 130
4-Bromofluorobenzene	108		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	100		50 - 130

Lab Sample ID: LCSD 600-304037/4
 Matrix: Solid
 Analysis Batch: 304037

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.05718		mg/Kg		114	70 - 131	1	30
Ethylbenzene	0.0500	0.05843		mg/Kg		117	66 - 130	2	30
m-Xylene & p-Xylene	0.0500	0.05759		mg/Kg		115	64 - 130	1	30
o-Xylene	0.0500	0.05730		mg/Kg		115	62 - 130	4	30
Toluene	0.0500	0.05841		mg/Kg		117	67 - 130	0	30
Xylenes, Total	0.100	0.1149		mg/Kg		115	63 - 130	3	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		61 - 130
4-Bromofluorobenzene	101		57 - 140
Dibromofluoromethane	96		68 - 140
Toluene-d8 (Surr)	95		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Lab Sample ID: MB 600-304172/6
 Matrix: Solid
 Analysis Batch: 304172

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

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/24/20 14:08	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/24/20 14:08	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/24/20 14:08	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/24/20 14:08	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/24/20 14:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	68		61 - 130		09/24/20 14:08	1
4-Bromofluorobenzene	102		57 - 140		09/24/20 14:08	1
Dibromofluoromethane	94		68 - 140		09/24/20 14:08	1
Toluene-d8 (Surr)	105		50 - 130		09/24/20 14:08	1

Lab Sample ID: LCS 600-304172/3
 Matrix: Solid
 Analysis Batch: 304172

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05215		mg/Kg		104	70 - 131
Ethylbenzene	0.0500	0.05593		mg/Kg		112	66 - 130
m-Xylene & p-Xylene	0.0500	0.05276		mg/Kg		106	64 - 130
o-Xylene	0.0500	0.05461		mg/Kg		109	62 - 130
Toluene	0.0500	0.05311		mg/Kg		106	67 - 130
Xylenes, Total	0.100	0.1074		mg/Kg		107	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	71		61 - 130
4-Bromofluorobenzene	102		57 - 140
Dibromofluoromethane	95		68 - 140
Toluene-d8 (Surr)	96		50 - 130

Lab Sample ID: LCSD 600-304172/4
 Matrix: Solid
 Analysis Batch: 304172

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.06187		mg/Kg		124	70 - 131	17	30
Ethylbenzene	0.0500	0.06478		mg/Kg		130	66 - 130	15	30
m-Xylene & p-Xylene	0.0500	0.06165		mg/Kg		123	64 - 130	16	30
o-Xylene	0.0500	0.06223		mg/Kg		124	62 - 130	13	30
Toluene	0.0500	0.06249		mg/Kg		125	67 - 130	16	30
Xylenes, Total	0.100	0.1239		mg/Kg		124	63 - 130	14	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	75		61 - 130
4-Bromofluorobenzene	102		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	94		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Lab Sample ID: MB 600-303859/3-A
 Matrix: Solid
 Analysis Batch: 303858

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 303859

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		09/19/20 06:58	09/19/20 09:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		70 - 130				09/19/20 06:58	09/19/20 09:00	1

Lab Sample ID: LCS 600-303859/1-A
 Matrix: Solid
 Analysis Batch: 303858

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 303859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.523		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	91		70 - 130				

Lab Sample ID: LCSD 600-303859/2-A
 Matrix: Solid
 Analysis Batch: 303858

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 303859

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.375		mg/Kg		107	70 - 130	3	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

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

Lab Sample ID: MB 600-304095/1-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24.9	U	121	24.9	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Oil Range Organics (C28-C36)	72.8	U	121	72.8	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				09/23/20 13:08	09/24/20 11:30	1

Lab Sample ID: LCS 600-304095/2-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	963	1169		mg/Kg		121	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Lab Sample ID: LCS 600-304095/2-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304095

Surrogate	%Recovery	LCS Qualifier	LCS Limits
o-Terphenyl	137		60 - 140

Lab Sample ID: LCSD 600-304095/3-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	919	1158		mg/Kg		126	66 - 134	1	30

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
o-Terphenyl	137		60 - 140

Lab Sample ID: MB 600-304102/1-A
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 304102

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		09/23/20 13:53	09/29/20 13:46	1
Oil Range Organics (C28-C36)	5.00	U	8.30	5.00	mg/Kg		09/23/20 13:53	09/29/20 13:46	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	117		60 - 140	09/23/20 13:53	09/29/20 13:46	1

Lab Sample ID: LCS 600-304102/2-A
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.8	73.42		mg/Kg		110	66 - 134

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

Lab Sample ID: 600-211412-6 MS
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: SB-29-S-0-.5-200917
 Prep Type: Total/NA
 Prep Batch: 304102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	187	F2 F1	90.0	194.1	F1	mg/Kg	✱	8	66 - 134

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

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

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

Lab Sample ID: 600-211412-6 MSD
 Matrix: Solid
 Analysis Batch: 304444

Client Sample ID: SB-29-S-0-.5-200917
 Prep Type: Total/NA
 Prep Batch: 304102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	187	F2 F1	89.9	131.5	F2 F1	mg/Kg	⊛	-61	66 - 134	38	30
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
<i>o</i> -Terphenyl	68		60 - 140								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-304427/1-A
 Matrix: Solid
 Analysis Batch: 304683

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			10/02/20 17:55	1

Lab Sample ID: LCS 600-304427/2-A
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	188.1		mg/Kg		94	90 - 110

Lab Sample ID: 600-211412-1 MS
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: SB-26-S-0-.5-200917
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	953	F1	1070	1689	F1	mg/Kg	⊛	69	80 - 120

Lab Sample ID: 600-211412-1 MSD
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: SB-26-S-0-.5-200917
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	953	F1	1070	1684	F1	mg/Kg	⊛	69	80 - 120	0	20

Method: 2540B - Percent Moisture

Lab Sample ID: 600-211412-7 DU
 Matrix: Solid
 Analysis Batch: 303942

Client Sample ID: SB-30-S-0-.5-200917
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	2.6		1.9	F5	%		30	20
Percent Solids	97.4		98.1		%		0.7	20

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Method: 8260C - Volatile Organic Compounds by GC/MS**Prep: 5030C**

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Total BTEX	0.0200	0.000630	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

Method: 8015D - Gasoline Range Organics (GRO) (GC)**Prep: 5030C**

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

Method: 8015D - Diesel Range Organics (DRO) (GC)**Prep: 3546**

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

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

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

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

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

GC/MS VOA

Prep Batch: 303950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	5030C	
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	5030C	
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	5030C	

Analysis Batch: 304037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Total/NA	Solid	8260C	303950
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	8260C	303950
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	8260C	303950
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	8260C	303950
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	8260C	303950
MB 600-304037/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-304037/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-304037/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 304172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	8260C	303950
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	8260C	303950
MB 600-304172/6	Method Blank	Total/NA	Solid	8260C	
LCS 600-304172/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-304172/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Analysis Batch: 303858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Total/NA	Solid	8015D	303859
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	8015D	303859
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	8015D	303859
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	8015D	303859
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	8015D	303859
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	8015D	303859
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	8015D	303859
MB 600-303859/3-A	Method Blank	Total/NA	Solid	8015D	303859
LCS 600-303859/1-A	Lab Control Sample	Total/NA	Solid	8015D	303859
LCSD 600-303859/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	303859

Prep Batch: 303859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	5030C	
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	5030C	
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	5030C	
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	5030C	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

GC VOA (Continued)

Prep Batch: 303859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-303859/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-303859/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-303859/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 304095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1 - DL	SB-26-S-0-.5-200917	Total/NA	Solid	3546	
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	3546	
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	3546	
MB 600-304095/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 304102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	3546	
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	3546	
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	3546	
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	3546	
MB 600-304102/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304102/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-211412-6 MS	SB-29-S-0-.5-200917	Total/NA	Solid	3546	
600-211412-6 MSD	SB-29-S-0-.5-200917	Total/NA	Solid	3546	

Analysis Batch: 304134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1 - DL	SB-26-S-0-.5-200917	Total/NA	Solid	8015D	304095
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	8015D	304095
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	8015D	304095
MB 600-304095/1-A	Method Blank	Total/NA	Solid	8015D	304095
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	8015D	304095
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	304095

Analysis Batch: 304444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	8015D	304102
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	8015D	304102
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	8015D	304102
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	8015D	304102
MB 600-304102/1-A	Method Blank	Total/NA	Solid	8015D	304102
LCS 600-304102/2-A	Lab Control Sample	Total/NA	Solid	8015D	304102
600-211412-6 MS	SB-29-S-0-.5-200917	Total/NA	Solid	8015D	304102
600-211412-6 MSD	SB-29-S-0-.5-200917	Total/NA	Solid	8015D	304102

HPLC/IC

Leach Batch: 304427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Soluble	Solid	DI Leach	
600-211412-2	SB-27-S-0-.5-200917	Soluble	Solid	DI Leach	

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

HPLC/IC (Continued)

Leach Batch: 304427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-3	SB-27-SD-0-.5-200917	Soluble	Solid	DI Leach	
600-211412-4	SB-28-S-0-.5-200917	Soluble	Solid	DI Leach	
600-211412-5	SB-28-S-1-2-200917	Soluble	Solid	DI Leach	
600-211412-6	SB-29-S-0-.5-200917	Soluble	Solid	DI Leach	
600-211412-7	SB-30-S-0-.5-200917	Soluble	Solid	DI Leach	
MB 600-304427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-211412-1 MS	SB-26-S-0-.5-200917	Soluble	Solid	DI Leach	
600-211412-1 MSD	SB-26-S-0-.5-200917	Soluble	Solid	DI Leach	

Analysis Batch: 304683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-2	SB-27-S-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-3	SB-27-SD-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-4	SB-28-S-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-5	SB-28-S-1-2-200917	Soluble	Solid	300.0	304427
600-211412-6	SB-29-S-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-7	SB-30-S-0-.5-200917	Soluble	Solid	300.0	304427
MB 600-304427/1-A	Method Blank	Soluble	Solid	300.0	304427
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	300.0	304427
600-211412-1 MS	SB-26-S-0-.5-200917	Soluble	Solid	300.0	304427
600-211412-1 MSD	SB-26-S-0-.5-200917	Soluble	Solid	300.0	304427

General Chemistry

Analysis Batch: 303942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211412-1	SB-26-S-0-.5-200917	Total/NA	Solid	2540B	
600-211412-2	SB-27-S-0-.5-200917	Total/NA	Solid	2540B	
600-211412-3	SB-27-SD-0-.5-200917	Total/NA	Solid	2540B	
600-211412-4	SB-28-S-0-.5-200917	Total/NA	Solid	2540B	
600-211412-5	SB-28-S-1-2-200917	Total/NA	Solid	2540B	
600-211412-6	SB-29-S-0-.5-200917	Total/NA	Solid	2540B	
600-211412-7	SB-30-S-0-.5-200917	Total/NA	Solid	2540B	
600-211412-7 DU	SB-30-S-0-.5-200917	Total/NA	Solid	2540B	

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-26-S-0-.5-200917

Lab Sample ID: 600-211412-1

Date Collected: 09/17/20 10:03

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-26-S-0-.5-200917

Lab Sample ID: 600-211412-1

Date Collected: 09/17/20 10:03

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 16:16	WS1	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 09:25	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:16	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 23:11	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304683	10/02/20 18:35	DTN	TAL HOU

Client Sample ID: SB-27-S-0-.5-200917

Lab Sample ID: 600-211412-2

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-27-S-0-.5-200917

Lab Sample ID: 600-211412-2

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 16:38	WS1	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 09:49	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:16	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 23:43	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304683	10/02/20 19:37	DTN	TAL HOU

Client Sample ID: SB-27-SD-0-.5-200917

Lab Sample ID: 600-211412-3

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-27-SD-0-.5-200917

Lab Sample ID: 600-211412-3

Date Collected: 09/17/20 10:20

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 17:01	WS1	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 10:14	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:16	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/25/20 00:14	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304683	10/02/20 19:57	DTN	TAL HOU

Client Sample ID: SB-28-S-0-.5-200917

Lab Sample ID: 600-211412-4

Date Collected: 09/17/20 10:42

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-28-S-0-.5-200917

Lab Sample ID: 600-211412-4

Date Collected: 09/17/20 10:42

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 17:23	WS1	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 10:38	WS1	TAL HOU
Total/NA	Prep	3546			304102	09/23/20 13:53	EAT	TAL HOU
Total/NA	Analysis	8015D		1	304444	09/29/20 15:54	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304683	10/02/20 20:18	DTN	TAL HOU

Client Sample ID: SB-28-S-1-2-200917

Lab Sample ID: 600-211412-5

Date Collected: 09/17/20 10:47

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-28-S-1-2-200917

Lab Sample ID: 600-211412-5

Date Collected: 09/17/20 10:47

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304037	09/23/20 17:45	WS1	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 11:03	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Client Sample ID: SB-28-S-1-2-200917

Lab Sample ID: 600-211412-5

Date Collected: 09/17/20 10:47

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			304102	09/23/20 13:53	EAT	TAL HOU
Total/NA	Analysis	8015D		1	304444	09/29/20 16:26	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304683	10/02/20 20:38	DTN	TAL HOU

Client Sample ID: SB-29-S-0-.5-200917

Lab Sample ID: 600-211412-6

Date Collected: 09/17/20 11:23

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-29-S-0-.5-200917

Lab Sample ID: 600-211412-6

Date Collected: 09/17/20 11:23

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304172	09/24/20 14:30	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 11:27	WS1	TAL HOU
Total/NA	Prep	3546			304102	09/23/20 13:53	EAT	TAL HOU
Total/NA	Analysis	8015D		1	304444	09/29/20 16:58	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		2	304683	10/02/20 20:58	DTN	TAL HOU

Client Sample ID: SB-30-S-0-.5-200917

Lab Sample ID: 600-211412-7

Date Collected: 09/17/20 12:16

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-30-S-0-.5-200917

Lab Sample ID: 600-211412-7

Date Collected: 09/17/20 12:16

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304172	09/24/20 14:52	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 11:52	WS1	TAL HOU
Total/NA	Prep	3546			304102	09/23/20 13:53	EAT	TAL HOU
Total/NA	Analysis	8015D		1	304444	09/29/20 18:34	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		2	304683	10/02/20 22:00	DTN	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211412-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015D	3546	Solid	Oil Range Organics (C28-C36)
8260C	5030C	Solid	Total BTEX



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

Chain of Custody Record

eurofins Environment Testing America

Client Information		Sampler: J. Steinmann		Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s):		COC No: 600-78892-21251.1	
Client Contact: Justin Nixon		Phone: 619 851 8792		E-Mail: Sachin.Kudchadkar@Eurofinset.com		Page: 1.1.1		Job #:	
Company: Morgan Jordan		Due Date Requested:		Analysis Requested		Total Number of Containers:		Preservation Codes:	
Address: ARCADIS U.S., Inc.		TAT Requested (days): Std		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: Austin		PO #:		Matrix (W-water, S-solid, O-wastewater, G-grab) (see Class. A-60)		Special Instructions/Note:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: TX 78703		WO #:		Sample Type (C=Comp, G=grab)		Barcode: 600-211412 Chain of Custody			
Phone: 281 644 9137		Project #:		Sample Date					
Email: Justin.Nixon@arcadis.com		SSOW#:		Sample Time					
Project Name: Chevron - VC GB Site				Sample Date					
Site: VCGB				Sample Time					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W-water, S-solid, O-wastewater, G-grab) (see Class. A-60)	
SB-26-S-0-.5 - 200917		9/17/20		1003		G		Solid	
SB-27-S-0-.5 - 200917				1020				Solid	
SB-27-S-0-.5 - 200917				1020				Solid	
SB-28-S-0-.5 - 200917				1042				Solid	
SB-28-S-1-2 - 200917				1047				Solid	
SB-29-S-0-.5 - 200917				1123				Solid	
SB-30-S-0-.5 - 200917				1216				Solid	
Temp Blank								Solid	
Date: 9/17/20									
Possible Hazard Identification		Poison B		Unknown		Radiological		Flammable	
Non-Hazard		Skin Irritant		Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Return To Client	
Relinquished by: Justin		Date: 9/17/20		Time: 1400		Company: ARCADIS		Disposal By Lab	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Archive For Months	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Company: EPA	
Custody Seals Intact: Yes		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

Ver: 01/16/2019

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20 SEP 18 10:37

Loc: 600
211412



Environment Testing
TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 9/18/20 10:37

JOB NUMBER: _____

CLIENT: Arcadis

UNPACKED BY: [Signature]

CARRIER/DRIVER: FedEx

Custody Seal Present: YES NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
1874	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	0.6	680	10.1	0.7
	<input type="checkbox"/> Y / <input type="checkbox"/> N	<input type="checkbox"/> Y / <input type="checkbox"/> N				
	<input type="checkbox"/> Y / <input type="checkbox"/> N	<input type="checkbox"/> Y / <input type="checkbox"/> N				
	<input type="checkbox"/> Y / <input type="checkbox"/> N	<input type="checkbox"/> Y / <input type="checkbox"/> N				
	<input type="checkbox"/> Y / <input type="checkbox"/> N	<input type="checkbox"/> Y / <input type="checkbox"/> N				
	<input type="checkbox"/> Y / <input type="checkbox"/> N	<input type="checkbox"/> Y / <input type="checkbox"/> 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:

9/18/20

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 600-211412-1

Login Number: 211412

List Source: Eurofins TestAmerica, Houston

List Number: 1

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.



Environment Testing
America

ANALYTICAL REPORT

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

Laboratory Job ID: 600-211422-1
Client Project/Site: Chevron - VC GB Site

For:
ARCADIS U.S. Inc
10205 Westheimer Rd
Suite 800
Houston, Texas 77042

Attn: Douglas Jordan

Authorized for release by:
10/6/2020 3:08:19 PM

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



LINKS

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results through
TotalAccess

Have a Question?



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

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

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

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Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Laboratory Job ID: 600-211422-1

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Method Summary

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Protocol References:

ASTM = ASTM International

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

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

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

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-211422-1	SB-21-S-0-.5-200916	Solid	09/16/20 10:24	09/18/20 10:37	
600-211422-2	SB-21-SD-0-.5-200916	Solid	09/16/20 10:24	09/18/20 10:37	
600-211422-3	SB-20-S-0-.5-200916	Solid	09/16/20 10:10	09/18/20 10:37	
600-211422-4	SB-22-S-0-.5-200916	Solid	09/16/20 10:57	09/18/20 10:37	
600-211422-5	SB-22-S-1-1.25-200916	Solid	09/16/20 11:22	09/18/20 10:37	
600-211422-6	SB-23-S-0-.5-200916	Solid	09/16/20 11:49	09/18/20 10:37	
600-211422-7	SB-23-S-1-2-200916	Solid	09/16/20 12:11	09/18/20 10:37	
600-211422-8	SB-24-S-0-.5-200916	Solid	09/16/20 14:25	09/18/20 10:37	
600-211422-9	SB-25-S-0-.5-200916	Solid	09/16/20 14:46	09/18/20 10:37	

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Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-21-S-0-.5-200916

Lab Sample ID: 600-211422-1

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 97.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000649	U	0.00515	0.000649	mg/Kg	☼	09/21/20 17:50	09/24/20 17:44	1
Ethylbenzene	0.00105	U	0.00515	0.00105	mg/Kg	☼	09/21/20 17:50	09/24/20 17:44	1
Toluene	0.00329	J	0.00515	0.00142	mg/Kg	☼	09/21/20 17:50	09/24/20 17:44	1
Xylenes, Total	0.00116	U	0.00515	0.00116	mg/Kg	☼	09/21/20 17:50	09/24/20 17:44	1
Total BTEX	0.00329	J	0.0206	0.000649	mg/Kg	☼	09/21/20 17:50	09/24/20 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130	09/21/20 17:50	09/24/20 17:44	1
4-Bromofluorobenzene	85		57 - 140	09/21/20 17:50	09/24/20 17:44	1
Dibromofluoromethane	100		68 - 140	09/21/20 17:50	09/24/20 17:44	1
Toluene-d8 (Surr)	118		50 - 130	09/21/20 17:50	09/24/20 17:44	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.608	U	1.04	0.608	mg/Kg	☼	09/19/20 06:58	09/19/20 12:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
a,a,a-Trifluorotoluene	92		70 - 130	09/19/20 06:58	09/19/20 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]	1960		237	48.8	mg/Kg	☼	09/23/20 13:08	09/29/20 23:19	2
Oil Range Organics (C28-C36)	5960		237	143	mg/Kg	☼	09/23/20 13:08	09/29/20 23:19	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl	112		60 - 140	09/23/20 13:08	09/29/20 23:19	2			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5790		206	27.4	mg/Kg	☼		10/02/20 22:20	50

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.7		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	97.3		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-21-SD-0-.5-200916

Lab Sample ID: 600-211422-2

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 95.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000661	U	0.00524	0.000661	mg/Kg	☼	09/21/20 17:50	09/24/20 18:08	1
Ethylbenzene	0.00107	U	0.00524	0.00107	mg/Kg	☼	09/21/20 17:50	09/24/20 18:08	1
Toluene	0.00145	U	0.00524	0.00145	mg/Kg	☼	09/21/20 17:50	09/24/20 18:08	1
Xylenes, Total	0.00118	U	0.00524	0.00118	mg/Kg	☼	09/21/20 17:50	09/24/20 18:08	1
Total BTEX	0.000661	U	0.0210	0.000661	mg/Kg	☼	09/21/20 17:50	09/24/20 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		61 - 130	09/21/20 17:50	09/24/20 18:08	1
4-Bromofluorobenzene	79		57 - 140	09/21/20 17:50	09/24/20 18:08	1
Dibromofluoromethane	90		68 - 140	09/21/20 17:50	09/24/20 18:08	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-21-SD-0-.5-200916

Lab Sample ID: 600-211422-2

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 95.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	130		50 - 130	09/21/20 17:50	09/24/20 18:08	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.562	U	0.960	0.562	mg/Kg	☼	09/19/20 06:58	09/19/20 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130	09/19/20 06:58	09/19/20 12:41	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]	2470		636	131	mg/Kg	☼	09/23/20 13:08	09/29/20 23:51	5
Oil Range Organics (C28-C36)	11300		636	383	mg/Kg	☼	09/23/20 13:08	09/29/20 23:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		60 - 140	09/23/20 13:08	09/29/20 23:51	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5640		417	55.7	mg/Kg	☼		10/02/20 22:40	100

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	95.9		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-20-S-0-.5-200916

Lab Sample ID: 600-211422-3

Date Collected: 09/16/20 10:10

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 86.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000687	U	0.00545	0.000687	mg/Kg	☼	09/21/20 17:50	09/24/20 18:32	1
Ethylbenzene	0.00111	U	0.00545	0.00111	mg/Kg	☼	09/21/20 17:50	09/24/20 18:32	1
Toluene	0.00231	J	0.00545	0.00151	mg/Kg	☼	09/21/20 17:50	09/24/20 18:32	1
Xylenes, Total	0.00123	U	0.00545	0.00123	mg/Kg	☼	09/21/20 17:50	09/24/20 18:32	1
Total BTEX	0.00231	J	0.0218	0.000687	mg/Kg	☼	09/21/20 17:50	09/24/20 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		61 - 130	09/21/20 17:50	09/24/20 18:32	1
4-Bromofluorobenzene	87		57 - 140	09/21/20 17:50	09/24/20 18:32	1
Dibromofluoromethane	87		68 - 140	09/21/20 17:50	09/24/20 18:32	1
Toluene-d8 (Surr)	97		50 - 130	09/21/20 17:50	09/24/20 18:32	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.675	U	1.15	0.675	mg/Kg	☼	09/19/20 06:58	09/19/20 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130	09/19/20 06:58	09/19/20 13:06	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-20-S-0-.5-200916

Lab Sample ID: 600-211422-3

Date Collected: 09/16/20 10:10

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 86.3

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	846		136	28.0	mg/Kg	☼	09/23/20 13:08	09/24/20 18:57	1
Oil Range Organics (C28-C36)	3680		136	82.0	mg/Kg	☼	09/23/20 13:08	09/24/20 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	124		60 - 140				09/23/20 13:08	09/24/20 18:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4900		116	15.5	mg/Kg	☼		10/02/20 23:01	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	86.3		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-22-S-0-.5-200916

Lab Sample ID: 600-211422-4

Date Collected: 09/16/20 10:57

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 98.8

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000595	U	0.00472	0.000595	mg/Kg	☼	09/21/20 17:50	09/24/20 18:56	1
Ethylbenzene	0.000963	U	0.00472	0.000963	mg/Kg	☼	09/21/20 17:50	09/24/20 18:56	1
Toluene	0.00700		0.00472	0.00130	mg/Kg	☼	09/21/20 17:50	09/24/20 18:56	1
Xylenes, Total	0.00107	U	0.00472	0.00107	mg/Kg	☼	09/21/20 17:50	09/24/20 18:56	1
Total BTEX	0.00700	J	0.0189	0.000595	mg/Kg	☼	09/21/20 17:50	09/24/20 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		61 - 130				09/21/20 17:50	09/24/20 18:56	1
4-Bromofluorobenzene	78		57 - 140				09/21/20 17:50	09/24/20 18:56	1
Dibromofluoromethane	88		68 - 140				09/21/20 17:50	09/24/20 18:56	1
Toluene-d8 (Surr)	88		50 - 130				09/21/20 17:50	09/24/20 18:56	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.557	U	0.951	0.557	mg/Kg	☼	09/19/20 06:58	09/19/20 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	102		70 - 130				09/19/20 06:58	09/19/20 13:55	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]	4340		578	119	mg/Kg	☼	09/23/20 13:08	09/24/20 19:29	5
Oil Range Organics (C28-C36)	17300		578	348	mg/Kg	☼	09/23/20 13:08	09/24/20 19:29	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	113		60 - 140				09/23/20 13:08	09/24/20 19:29	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5530		202	27.0	mg/Kg	☼		10/02/20 23:21	50

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-22-S-0-.5-200916

Lab Sample ID: 600-211422-4

Date Collected: 09/16/20 10:57

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 98.8

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	98.8		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-22-S-1-1.25-200916

Lab Sample ID: 600-211422-5

Date Collected: 09/16/20 11:22

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 81.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000771	U	0.00612	0.000771	mg/Kg	☼	09/21/20 17:50	09/24/20 19:21	1
Ethylbenzene	0.00125	U	0.00612	0.00125	mg/Kg	☼	09/21/20 17:50	09/24/20 19:21	1
Toluene	0.00398	J	0.00612	0.00169	mg/Kg	☼	09/21/20 17:50	09/24/20 19:21	1
Xylenes, Total	0.00138	U	0.00612	0.00138	mg/Kg	☼	09/21/20 17:50	09/24/20 19:21	1
Total BTEX	0.00398	J	0.0245	0.000771	mg/Kg	☼	09/21/20 17:50	09/24/20 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		61 - 130	09/21/20 17:50	09/24/20 19:21	1
4-Bromofluorobenzene	90		57 - 140	09/21/20 17:50	09/24/20 19:21	1
Dibromofluoromethane	86		68 - 140	09/21/20 17:50	09/24/20 19:21	1
Toluene-d8 (Surr)	93		50 - 130	09/21/20 17:50	09/24/20 19:21	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.739	U	1.26	0.739	mg/Kg	☼	09/19/20 06:58	09/19/20 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		70 - 130	09/19/20 06:58	09/19/20 14:20	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]	315		150	30.8	mg/Kg	☼	09/23/20 13:08	09/24/20 20:01	1
Oil Range Organics (C28-C36)	2130		150	90.2	mg/Kg	☼	09/23/20 13:08	09/24/20 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	116		60 - 140	09/23/20 13:08	09/24/20 20:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		123	16.4	mg/Kg	☼		10/03/20 00:22	25

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.5		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	81.5		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-23-S-0-.5-200916

Lab Sample ID: 600-211422-6

Date Collected: 09/16/20 11:49

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000750	U	0.00595	0.000750	mg/Kg	☼	09/21/20 17:50	09/24/20 19:45	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-23-S-0-.5-200916

Lab Sample ID: 600-211422-6

Date Collected: 09/16/20 11:49

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.5

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00121	U	0.00595	0.00121	mg/Kg	☼	09/21/20 17:50	09/24/20 19:45	1
Toluene	0.00164	U	0.00595	0.00164	mg/Kg	☼	09/21/20 17:50	09/24/20 19:45	1
Xylenes, Total	0.00134	U	0.00595	0.00134	mg/Kg	☼	09/21/20 17:50	09/24/20 19:45	1
Total BTEX	0.000750	U	0.0238	0.000750	mg/Kg	☼	09/21/20 17:50	09/24/20 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		61 - 130	09/21/20 17:50	09/24/20 19:45	1
4-Bromofluorobenzene	109		57 - 140	09/21/20 17:50	09/24/20 19:45	1
Dibromofluoromethane	94		68 - 140	09/21/20 17:50	09/24/20 19:45	1
Toluene-d8 (Surr)	86		50 - 130	09/21/20 17:50	09/24/20 19:45	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.715	U	1.22	0.715	mg/Kg	☼	09/19/20 06:58	09/19/20 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		70 - 130	09/19/20 06:58	09/19/20 14:45	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]	2970		737	152	mg/Kg	☼	09/23/20 13:08	09/24/20 20:33	5
Oil Range Organics (C28-C36)	16300		737	444	mg/Kg	☼	09/23/20 13:08	09/24/20 20:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	128		60 - 140	09/23/20 13:08	09/24/20 20:33	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4		9.94	1.33	mg/Kg	☼		10/03/20 00:43	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.5		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	80.5		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-23-S-1-2-200916

Lab Sample ID: 600-211422-7

Date Collected: 09/16/20 12:11

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 75.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000835	U	0.00663	0.000835	mg/Kg	☼	09/21/20 17:50	09/24/20 20:08	1
Ethylbenzene	0.00135	U	0.00663	0.00135	mg/Kg	☼	09/21/20 17:50	09/24/20 20:08	1
Toluene	0.00554	J	0.00663	0.00183	mg/Kg	☼	09/21/20 17:50	09/24/20 20:08	1
Xylenes, Total	0.00150	U	0.00663	0.00150	mg/Kg	☼	09/21/20 17:50	09/24/20 20:08	1
Total BTEX	0.00554	J	0.0265	0.000835	mg/Kg	☼	09/21/20 17:50	09/24/20 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		61 - 130	09/21/20 17:50	09/24/20 20:08	1
4-Bromofluorobenzene	81		57 - 140	09/21/20 17:50	09/24/20 20:08	1
Dibromofluoromethane	82		68 - 140	09/21/20 17:50	09/24/20 20:08	1
Toluene-d8 (Surr)	97		50 - 130	09/21/20 17:50	09/24/20 20:08	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-23-S-1-2-200916

Lab Sample ID: 600-211422-7

Date Collected: 09/16/20 12:11

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 75.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.833	U	1.42	0.833	mg/Kg	☼	09/19/20 06:58	09/19/20 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		70 - 130				09/19/20 06:58	09/19/20 15:10	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]	3630		789	163	mg/Kg	☼	09/23/20 13:08	09/24/20 21:04	5
Oil Range Organics (C28-C36)	18700		789	476	mg/Kg	☼	09/23/20 13:08	09/24/20 21:04	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	124		60 - 140				09/23/20 13:08	09/24/20 21:04	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		26.6	3.56	mg/Kg	☼		10/03/20 01:03	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.9		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	75.1		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-24-S-0-.5-200916

Lab Sample ID: 600-211422-8

Date Collected: 09/16/20 14:25

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 91.9

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000682	U	0.00541	0.000682	mg/Kg	☼	09/21/20 17:50	09/24/20 20:32	1
Ethylbenzene	0.00110	U	0.00541	0.00110	mg/Kg	☼	09/21/20 17:50	09/24/20 20:32	1
Toluene	0.00781		0.00541	0.00149	mg/Kg	☼	09/21/20 17:50	09/24/20 20:32	1
Xylenes, Total	0.00122	U	0.00541	0.00122	mg/Kg	☼	09/21/20 17:50	09/24/20 20:32	1
Total BTEX	0.00781	J	0.0216	0.000682	mg/Kg	☼	09/21/20 17:50	09/24/20 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		61 - 130				09/21/20 17:50	09/24/20 20:32	1
4-Bromofluorobenzene	88		57 - 140				09/21/20 17:50	09/24/20 20:32	1
Dibromofluoromethane	89		68 - 140				09/21/20 17:50	09/24/20 20:32	1
Toluene-d8 (Surr)	117		50 - 130				09/21/20 17:50	09/24/20 20:32	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.695	J	1.16	0.679	mg/Kg	☼	09/19/20 06:58	09/19/20 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		70 - 130				09/19/20 06:58	09/19/20 15:34	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	762		132	27.1	mg/Kg	☼	09/23/20 13:08	09/24/20 21:36	1
Oil Range Organics (C28-C36)	3020		132	79.3	mg/Kg	☼	09/23/20 13:08	09/24/20 21:36	1

Euofins TestAmerica, Houston

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-24-S-0-.5-200916

Lab Sample ID: 600-211422-8

Date Collected: 09/16/20 14:25

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 91.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	120		60 - 140	09/23/20 13:08	09/24/20 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		43.5	5.81	mg/Kg	⊛		10/03/20 02:05	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	91.9		1.0	1.0	%			09/21/20 15:30	1

Client Sample ID: SB-25-S-0-.5-200916

Lab Sample ID: 600-211422-9

Date Collected: 09/16/20 14:46

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 96.1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000651	U	0.00517	0.000651	mg/Kg	⊛	09/21/20 17:50	09/24/20 20:56	1
Ethylbenzene	0.00105	U	0.00517	0.00105	mg/Kg	⊛	09/21/20 17:50	09/24/20 20:56	1
Toluene	0.00273	J	0.00517	0.00143	mg/Kg	⊛	09/21/20 17:50	09/24/20 20:56	1
Xylenes, Total	0.00117	U	0.00517	0.00117	mg/Kg	⊛	09/21/20 17:50	09/24/20 20:56	1
Total BTEX	0.00273	J	0.0207	0.000651	mg/Kg	⊛	09/21/20 17:50	09/24/20 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		61 - 130	09/21/20 17:50	09/24/20 20:56	1
4-Bromofluorobenzene	86		57 - 140	09/21/20 17:50	09/24/20 20:56	1
Dibromofluoromethane	81		68 - 140	09/21/20 17:50	09/24/20 20:56	1
Toluene-d8 (Surr)	94		50 - 130	09/21/20 17:50	09/24/20 20:56	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.603	U	1.03	0.603	mg/Kg	⊛	09/19/20 06:58	09/19/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene	104		70 - 130	09/19/20 06:58	09/19/20 15:59	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	287		126	25.9	mg/Kg	⊛	09/23/20 13:08	09/24/20 22:08	1
Oil Range Organics (C28-C36)	1880		126	75.7	mg/Kg	⊛	09/23/20 13:08	09/24/20 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	135		60 - 140	09/23/20 13:08	09/24/20 22:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	536		20.8	2.78	mg/Kg	⊛		10/03/20 02:25	5

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.9		1.0	1.0	%			09/21/20 15:30	1
Percent Solids	96.1		1.0	1.0	%			09/21/20 15:30	1

Eurofins TestAmerica, Houston

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Qualifiers

GC/MS VOA

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

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins TestAmerica, Houston

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	BFB (57-140)	DBFM (68-140)	TOL (50-130)
600-211422-1	SB-21-S-0-.5-200916	92	85	100	118
600-211422-2	SB-21-SD-0-.5-200916	99	79	90	130
600-211422-3	SB-20-S-0-.5-200916	89	87	87	97
600-211422-4	SB-22-S-0-.5-200916	84	78	88	88
600-211422-5	SB-22-S-1-1.25-200916	88	90	86	93
600-211422-6	SB-23-S-0-.5-200916	94	109	94	86
600-211422-7	SB-23-S-1-2-200916	77	81	82	97
600-211422-8	SB-24-S-0-.5-200916	92	88	89	117
600-211422-9	SB-25-S-0-.5-200916	98	86	81	94
LCS 600-304170/4	Lab Control Sample	75	90	101	95
LCSD 600-304170/5	Lab Control Sample Dup	71	95	97	86
MB 600-304170/7	Method Blank	69	71	89	96

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TFT1 (70-130)
600-211422-1	SB-21-S-0-.5-200916	92
600-211422-2	SB-21-SD-0-.5-200916	93
600-211422-3	SB-20-S-0-.5-200916	93
600-211422-4	SB-22-S-0-.5-200916	102
600-211422-5	SB-22-S-1-1.25-200916	101
600-211422-6	SB-23-S-0-.5-200916	89
600-211422-7	SB-23-S-1-2-200916	93
600-211422-8	SB-24-S-0-.5-200916	99
600-211422-9	SB-25-S-0-.5-200916	104
LCS 600-303859/1-A	Lab Control Sample	91
LCSD 600-303859/2-A	Lab Control Sample Dup	91
MB 600-303859/3-A	Method Blank	91

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTPH (60-140)
600-211422-1 - DL	SB-21-S-0-.5-200916	112
600-211422-2 - DL	SB-21-SD-0-.5-200916	69
600-211422-3	SB-20-S-0-.5-200916	124
600-211422-4 - DL	SB-22-S-0-.5-200916	113

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Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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)
600-211422-5	SB-22-S-1-1.25-200916	116
600-211422-6 - DL	SB-23-S-0-.5-200916	128
600-211422-7 - DL	SB-23-S-1-2-200916	124
600-211422-8	SB-24-S-0-.5-200916	120
600-211422-9	SB-25-S-0-.5-200916	135
LCS 600-304095/2-A	Lab Control Sample	137
LCSD 600-304095/3-A	Lab Control Sample Dup	137
MB 600-304095/1-A	Method Blank	125

Surrogate Legend

OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Lab Sample ID: MB 600-304170/7
 Matrix: Solid
 Analysis Batch: 304170

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

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			09/24/20 13:42	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			09/24/20 13:42	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			09/24/20 13:42	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			09/24/20 13:42	1
Total BTEX	0.000630	U	0.0200	0.000630	mg/Kg			09/24/20 13:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	69		61 - 130		09/24/20 13:42	1
4-Bromofluorobenzene	71		57 - 140		09/24/20 13:42	1
Dibromofluoromethane	89		68 - 140		09/24/20 13:42	1
Toluene-d8 (Surr)	96		50 - 130		09/24/20 13:42	1

Lab Sample ID: LCS 600-304170/4
 Matrix: Solid
 Analysis Batch: 304170

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.05325		mg/Kg		106	70 - 131
Ethylbenzene	0.0500	0.05402		mg/Kg		108	66 - 130
m-Xylene & p-Xylene	0.0500	0.04960		mg/Kg		99	64 - 130
o-Xylene	0.0500	0.04702		mg/Kg		94	62 - 130
Toluene	0.0500	0.05684		mg/Kg		114	67 - 130
Xylenes, Total	0.100	0.09662		mg/Kg		97	63 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	75		61 - 130
4-Bromofluorobenzene	90		57 - 140
Dibromofluoromethane	101		68 - 140
Toluene-d8 (Surr)	95		50 - 130

Lab Sample ID: LCSD 600-304170/5
 Matrix: Solid
 Analysis Batch: 304170

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.0500	0.04128		mg/Kg		83	70 - 131	25	30
Ethylbenzene	0.0500	0.04910		mg/Kg		98	66 - 130	10	30
m-Xylene & p-Xylene	0.0500	0.04645		mg/Kg		93	64 - 130	7	30
o-Xylene	0.0500	0.04406		mg/Kg		88	62 - 130	6	30
Toluene	0.0500	0.04478		mg/Kg		90	67 - 130	24	30
Xylenes, Total	0.100	0.09051		mg/Kg		91	63 - 130	7	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	71		61 - 130
4-Bromofluorobenzene	95		57 - 140
Dibromofluoromethane	97		68 - 140
Toluene-d8 (Surr)	86		50 - 130

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Lab Sample ID: MB 600-303859/3-A
Matrix: Solid
Analysis Batch: 303858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303859

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	0.586	U	1.00	0.586	mg/Kg		09/19/20 06:58	09/19/20 09:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	91		70 - 130				09/19/20 06:58	09/19/20 09:00	1

Lab Sample ID: LCS 600-303859/1-A
Matrix: Solid
Analysis Batch: 303858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics [C6 - C10]	5.04	5.523		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	91		70 - 130				

Lab Sample ID: LCSD 600-303859/2-A
Matrix: Solid
Analysis Batch: 303858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 303859

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	5.04	5.375		mg/Kg		107	70 - 130	3	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	91		70 - 130						

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

Lab Sample ID: MB 600-304095/1-A
Matrix: Solid
Analysis Batch: 304134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304095

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24.9	U	121	24.9	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Oil Range Organics (C28-C36)	72.8	U	121	72.8	mg/Kg		09/23/20 13:08	09/24/20 11:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	125		60 - 140				09/23/20 13:08	09/24/20 11:30	1

Lab Sample ID: LCS 600-304095/2-A
Matrix: Solid
Analysis Batch: 304134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	963	1169		mg/Kg		121	66 - 134

Eurofins TestAmerica, Houston

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Lab Sample ID: LCS 600-304095/2-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 304095

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	137		60 - 140

Lab Sample ID: LCSD 600-304095/3-A
 Matrix: Solid
 Analysis Batch: 304134

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 304095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	919	1158		mg/Kg		126	66 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	137		60 - 140

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-304427/1-A
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MLQ (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			10/02/20 17:55	1

Lab Sample ID: LCS 600-304427/2-A
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	200	188.1		mg/Kg		94	90 - 110

Lab Sample ID: 600-211422-4 MS
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: SB-22-S-0-.5-200916
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5530		5060	9665		mg/Kg	⊛	82	80 - 120

Lab Sample ID: 600-211422-4 MSD
 Matrix: Solid
 Analysis Batch: 304683

Client Sample ID: SB-22-S-0-.5-200916
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5530		5060	9757		mg/Kg	⊛	83	80 - 120	1	20

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

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

Prep: 5030C

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Total BTEX	0.0200	0.000630	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

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

Prep: 5030C

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

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

Prep: 3546

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

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

Eurofins TestAmerica, Houston

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

GC/MS VOA

Prep Batch: 303950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-2	SB-21-SD-0-.5-200916	Total/NA	Solid	5030C	
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-4	SB-22-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	5030C	
600-211422-6	SB-23-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-7	SB-23-S-1-2-200916	Total/NA	Solid	5030C	
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	5030C	

Analysis Batch: 304170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-2	SB-21-SD-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-4	SB-22-S-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	8260C	303950
600-211422-6	SB-23-S-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-7	SB-23-S-1-2-200916	Total/NA	Solid	8260C	303950
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	8260C	303950
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	8260C	303950
MB 600-304170/7	Method Blank	Total/NA	Solid	8260C	
LCS 600-304170/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 600-304170/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC VOA

Analysis Batch: 303858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-2	SB-21-SD-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-4	SB-22-S-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	8015D	303859
600-211422-6	SB-23-S-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-7	SB-23-S-1-2-200916	Total/NA	Solid	8015D	303859
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	8015D	303859
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	8015D	303859
MB 600-303859/3-A	Method Blank	Total/NA	Solid	8015D	303859
LCS 600-303859/1-A	Lab Control Sample	Total/NA	Solid	8015D	303859
LCSD 600-303859/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	303859

Prep Batch: 303859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-2	SB-21-SD-0-.5-200916	Total/NA	Solid	5030C	
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-4	SB-22-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	5030C	
600-211422-6	SB-23-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-7	SB-23-S-1-2-200916	Total/NA	Solid	5030C	

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

GC VOA (Continued)

Prep Batch: 303859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	5030C	
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	5030C	
MB 600-303859/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 600-303859/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 600-303859/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 304095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1 - DL	SB-21-S-0-.5-200916	Total/NA	Solid	3546	
600-211422-2 - DL	SB-21-SD-0-.5-200916	Total/NA	Solid	3546	
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	3546	
600-211422-4 - DL	SB-22-S-0-.5-200916	Total/NA	Solid	3546	
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	3546	
600-211422-6 - DL	SB-23-S-0-.5-200916	Total/NA	Solid	3546	
600-211422-7 - DL	SB-23-S-1-2-200916	Total/NA	Solid	3546	
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	3546	
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	3546	
MB 600-304095/1-A	Method Blank	Total/NA	Solid	3546	
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 304134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	8015D	304095
600-211422-4 - DL	SB-22-S-0-.5-200916	Total/NA	Solid	8015D	304095
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	8015D	304095
600-211422-6 - DL	SB-23-S-0-.5-200916	Total/NA	Solid	8015D	304095
600-211422-7 - DL	SB-23-S-1-2-200916	Total/NA	Solid	8015D	304095
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	8015D	304095
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	8015D	304095
MB 600-304095/1-A	Method Blank	Total/NA	Solid	8015D	304095
LCS 600-304095/2-A	Lab Control Sample	Total/NA	Solid	8015D	304095
LCSD 600-304095/3-A	Lab Control Sample Dup	Total/NA	Solid	8015D	304095

Analysis Batch: 304444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1 - DL	SB-21-S-0-.5-200916	Total/NA	Solid	8015D	304095
600-211422-2 - DL	SB-21-SD-0-.5-200916	Total/NA	Solid	8015D	304095

HPLC/IC

Leach Batch: 304427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-2	SB-21-SD-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-3	SB-20-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-4	SB-22-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-5	SB-22-S-1-1.25-200916	Soluble	Solid	DI Leach	
600-211422-6	SB-23-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-7	SB-23-S-1-2-200916	Soluble	Solid	DI Leach	

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QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

HPLC/IC (Continued)

Leach Batch: 304427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-8	SB-24-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-9	SB-25-S-0-.5-200916	Soluble	Solid	DI Leach	
MB 600-304427/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-211422-4 MS	SB-22-S-0-.5-200916	Soluble	Solid	DI Leach	
600-211422-4 MSD	SB-22-S-0-.5-200916	Soluble	Solid	DI Leach	

Analysis Batch: 304683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-2	SB-21-SD-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-3	SB-20-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-4	SB-22-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-5	SB-22-S-1-1.25-200916	Soluble	Solid	300.0	304427
600-211422-6	SB-23-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-7	SB-23-S-1-2-200916	Soluble	Solid	300.0	304427
600-211422-8	SB-24-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-9	SB-25-S-0-.5-200916	Soluble	Solid	300.0	304427
MB 600-304427/1-A	Method Blank	Soluble	Solid	300.0	304427
LCS 600-304427/2-A	Lab Control Sample	Soluble	Solid	300.0	304427
600-211422-4 MS	SB-22-S-0-.5-200916	Soluble	Solid	300.0	304427
600-211422-4 MSD	SB-22-S-0-.5-200916	Soluble	Solid	300.0	304427

General Chemistry

Analysis Batch: 303942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-211422-1	SB-21-S-0-.5-200916	Total/NA	Solid	2540B	
600-211422-2	SB-21-SD-0-.5-200916	Total/NA	Solid	2540B	
600-211422-3	SB-20-S-0-.5-200916	Total/NA	Solid	2540B	
600-211422-4	SB-22-S-0-.5-200916	Total/NA	Solid	2540B	
600-211422-5	SB-22-S-1-1.25-200916	Total/NA	Solid	2540B	
600-211422-6	SB-23-S-0-.5-200916	Total/NA	Solid	2540B	
600-211422-7	SB-23-S-1-2-200916	Total/NA	Solid	2540B	
600-211422-8	SB-24-S-0-.5-200916	Total/NA	Solid	2540B	
600-211422-9	SB-25-S-0-.5-200916	Total/NA	Solid	2540B	

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Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-21-S-0-.5-200916

Lab Sample ID: 600-211422-1

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-21-S-0-.5-200916

Lab Sample ID: 600-211422-1

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 17:44	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 12:17	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	2	304444	09/29/20 23:19	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		50	304683	10/02/20 22:20	DTN	TAL HOU

Client Sample ID: SB-21-SD-0-.5-200916

Lab Sample ID: 600-211422-2

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-21-SD-0-.5-200916

Lab Sample ID: 600-211422-2

Date Collected: 09/16/20 10:24

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 95.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 18:08	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 12:41	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304444	09/29/20 23:51	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		100	304683	10/02/20 22:40	DTN	TAL HOU

Client Sample ID: SB-20-S-0-.5-200916

Lab Sample ID: 600-211422-3

Date Collected: 09/16/20 10:10

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-20-S-0-.5-200916

Lab Sample ID: 600-211422-3

Date Collected: 09/16/20 10:10

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 18:32	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 13:06	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 18:57	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		25	304683	10/02/20 23:01	DTN	TAL HOU

Client Sample ID: SB-22-S-0-.5-200916

Lab Sample ID: 600-211422-4

Date Collected: 09/16/20 10:57

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-22-S-0-.5-200916

Lab Sample ID: 600-211422-4

Date Collected: 09/16/20 10:57

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 18:56	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 13:55	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 19:29	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		50	304683	10/02/20 23:21	DTN	TAL HOU

Client Sample ID: SB-22-S-1-1.25-200916

Lab Sample ID: 600-211422-5

Date Collected: 09/16/20 11:22

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-22-S-1-1.25-200916

Lab Sample ID: 600-211422-5

Date Collected: 09/16/20 11:22

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 19:21	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 14:20	WS1	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-22-S-1-1.25-200916

Lab Sample ID: 600-211422-5

Date Collected: 09/16/20 11:22

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 20:01	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		25	304683	10/03/20 00:22	DTN	TAL HOU

Client Sample ID: SB-23-S-0-.5-200916

Lab Sample ID: 600-211422-6

Date Collected: 09/16/20 11:49

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-23-S-0-.5-200916

Lab Sample ID: 600-211422-6

Date Collected: 09/16/20 11:49

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 19:45	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 14:45	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 20:33	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		2	304683	10/03/20 00:43	DTN	TAL HOU

Client Sample ID: SB-23-S-1-2-200916

Lab Sample ID: 600-211422-7

Date Collected: 09/16/20 12:11

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-23-S-1-2-200916

Lab Sample ID: 600-211422-7

Date Collected: 09/16/20 12:11

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 20:08	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 15:10	WS1	TAL HOU
Total/NA	Prep	3546	DL		304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D	DL	5	304134	09/24/20 21:04	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304683	10/03/20 01:03	DTN	TAL HOU

Eurofins TestAmerica, Houston

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Chevron - VC GB Site

Job ID: 600-211422-1

Client Sample ID: SB-24-S-0-.5-200916

Lab Sample ID: 600-211422-8

Date Collected: 09/16/20 14:25

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-24-S-0-.5-200916

Lab Sample ID: 600-211422-8

Date Collected: 09/16/20 14:25

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 20:32	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 15:34	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 21:36	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		10	304683	10/03/20 02:05	DTN	TAL HOU

Client Sample ID: SB-25-S-0-.5-200916

Lab Sample ID: 600-211422-9

Date Collected: 09/16/20 14:46

Matrix: Solid

Date Received: 09/18/20 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	303942	09/21/20 15:30	HAS	TAL HOU

Client Sample ID: SB-25-S-0-.5-200916

Lab Sample ID: 600-211422-9

Date Collected: 09/16/20 14:46

Matrix: Solid

Date Received: 09/18/20 10:37

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			303950	09/21/20 17:50	KLV	TAL HOU
Total/NA	Analysis	8260C		1	304170	09/24/20 20:56	KLV	TAL HOU
Total/NA	Prep	5030C			303859	09/19/20 06:58	WS1	TAL HOU
Total/NA	Analysis	8015D		1	303858	09/19/20 15:59	WS1	TAL HOU
Total/NA	Prep	3546			304095	09/23/20 13:08	SMB	TAL HOU
Total/NA	Analysis	8015D		1	304134	09/24/20 22:08	RJV	TAL HOU
Soluble	Leach	DI Leach			304427	09/29/20 10:05	HAS	TAL HOU
Soluble	Analysis	300.0		5	304683	10/03/20 02:25	DTN	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 - VC GB Site

Job ID: 600-211422-1

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-20-26	10-31-20

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

Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids
8015D	3546	Solid	Oil Range Organics (C28-C36)
8260C	5030C	Solid	Total BTEX



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

Chain of Custody Record

eurofins Environment Testing America

Client Information		Sampler		Carrier Tracking No(s)		COC No	
Justin Brown		J. Steinmann		Kudchadkar, Sachin G		600-78892-21251.1	
Morgan Jordan		619 851 8792		Sachin.Kudchadkar@Eurofinset.com		Page: 1 of 1	
Company: ARCADIS U.S., Inc.		Lab PM: Kudchadkar, Sachin G		E-Mail: Sachin.Kudchadkar@Eurofinset.com		Job #:	
Address: 1717W 6th St		Due Date Requested:		Analysis Requested		Preservation Codes:	
1004 North Big Spring Suite 121		TAT Requested (days):		Perform MS/MSD (Yes or No)		M - Hexane	
City: Austin		std		Field Filtered Sample (Yes or No)		N - None	
State, Zip: TX 78703		PO #:		Moisture		O - AsNaO2	
Phone: 281 644 9437		WO #:		300- Chloride		P - Na2O4S	
Email: Justin.Brown@arcadis.com		Project #:		3015D GRO		R - Na2S2O3	
Project Name: Chevron - VC GB Site		60012666		3015D_DRO/ORO		S - H2SO4	
Site: UC GB		SSOW#:		Total Number of Containers		T - TSP Dodecahydrate	
Sample Identification		Sample Date		Sample Type (C=Comp, G=grab)		U - Ice	
SB-21-S-0-S-200916		9/16/20		G		V - MCAA	
SB-21-SD-0-S-200916		1024		Solid		W - pH 4.5	
SB-20-S-0-S-200916		1010		Solid		Z - other (specify)	
SB-22-S-0-S-200916		1057		Solid		Other:	
SB-22-S-0-S-200916		1122		Solid			
SB-23-S-0-S-200916		1149		Solid			
SB-2351-2-200916		1211		Solid			
SB-24-S-0-S-200916		1425		Solid			
SB-25-S-0-S-200916		1446		Solid			
Temp Blank		gs 9/10		Solid			
Special Instructions/Note:		Special Instructions/OC Requirements:		Special Instructions/OC Requirements:		Special Instructions/Note:	
600-211422 Chain of Custody		Multiple Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months			
Method of Shipment		Received by		Date/Time		Company	
Radiological <input type="checkbox"/> Unknown <input type="checkbox"/> Polson B <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Flammable <input type="checkbox"/> Non Hazard <input type="checkbox"/>		Aradis Company		9/18/20 1037		ETA Company	
Empty Kit Relinquished by:		Relinquished by:		Date/Time		Company	
Relinquished by:		Relinquished by:		Date/Time		Company	
Custody Seal No.:		Custody Seal No.:		Date/Time		Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:		Date/Time		Company	

Ver 01/16/2019

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

29 SEP 18 10:37

Loc: 600
211422



Environment Testing
TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: 9/18/20 10:37

JOB NUMBER: _____

CLIENT: Arcadis

UNPACKED BY: [Signature]

CARRIER/DRIVER: FedEx

Custody Seal Present: YES NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
4110	<u>Y / N</u>	<u>Y / N</u>	<u>2.3</u>	<u>680</u>	<u>0.1</u>	<u>2.4</u>
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? YES NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YES

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

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

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

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

COMMENTS:

9/18/20

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 600-211422-1

Login Number: 211422

List Source: Eurofins TestAmerica, Houston

List Number: 1



Creator: Rubio, Yuri



Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

APPENDIX C

Photograph Log



		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 1	Date: 9/14/2020		
Direction Photo Taken: Facing North			
Description: South entrance gate			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 2	Date: 9/14/2020		
Direction Photo Taken: Facing Northeast			
Description: South entrance gate, tank battery			



PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 3	Date: 9/14/2020
Direction Photo Taken: Facing Northeast	

Description:
South entrance gate, tank battery



PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 4	Date: 9/14/2020
Direction Photo Taken: Facing East	

Description:
West location near pump #1





PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 5	Date: 9/14/2020
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Direction Photo Taken:
Facing Southeast

Description:
South of North entrance



PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 6	Date: 9/14/2020
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Direction Photo Taken:
Facing Southeast

Description:
South of North entrance





PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 7	Date: 9/14/2020
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Direction Photo Taken:
Facing West

Description:
Location release area



PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 8	Date: 9/14/2020
-----------------------	---------------------------

Direction Photo Taken:
Facing North

Description:
Location release area





PHOTOGRAPHIC LOG

Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------

Photo No. 9	Date: 9/14/2020
-----------------------	---------------------------

Direction Photo Taken:
Facing Northeast

Description:
Location release area



PHOTOGRAPHIC LOG



Property Name: Vacuum Glorieta Central Battery	Location: Lea County, NM	Case No. 1RP-2622
--	------------------------------------	-----------------------------



Photo No. 10	Date: 9/14/2020
------------------------	---------------------------



Direction Photo Taken:
Facing Northwest



Description:
East of water tank







		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 11	Date: 9/14/2020		
Direction Photo Taken: Facing Southeast			
Description: East of water production tank			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 12	Date: 9/14/2020		
Direction Photo Taken: Facing South			
Description: East of water production tank			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 13	Date: 9/14/2020		
Direction Photo Taken: Facing East			
Description: 20 ft south of fence in between black tank and white production tank			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	Case No. 1RP-2622
Photo No. 14	Date: 9/14/2020		
Direction Photo Taken: Facing North			
Description: South of Facility, behind berm and outside of fence			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	
		Case No. 1RP-2622	
Photo No. 15	Date: 9/14/2020		
Direction Photo Taken: Facing North			
Description: 50 ft South of abandon well			

		PHOTOGRAPHIC LOG	
Property Name: Vacuum Glorieta Central Battery		Location: Lea County, NM	
		Case No. 1RP-2622	
Photo No. 16	Date: 9/14/2020		
Direction Photo Taken: Facing West			
Description: East side of pad			



Arcadis U.S., Inc.

10205 Westheimer Road

Suite 800

Houston, Texas 77042

Tel 713 953 4800

Fax 713 977 4620

www.arcadis.com

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS
 Action 11195

CONDITIONS

Operator: Arcadis U.S., Inc 630 Plaza Drive Highlands Ranch, CO 80129	OGRID: 329073
	Action Number: 11195
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 59794 for most updated status.	3/29/2023