Kelly C. Esters
Property Specialist
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6480
kesters@chevron.com

July 27, 2012

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Speciailst
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Facility No. 9-9708
5910 MacArthur Boulevard, California

Dear Mr. Detterman:

Attached for your review is the *Site Assessment and Preferential Pathway Survey Report* for the above-referenced site. This report was prepared by ARCADIS, upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge. Should you have any further questions, please do not hesitate to contact me.

Very truly yours,

Kelly C. Esters
Property Specialist

KCE:st
Encl.

ARCADIS U.S., Inc.
320 Commerce
Suite 200
Irvine
California 92602
Tel 714 730 9052
Fax 714 730 9345
www.arcadis-us.com

ENVIRONMENT

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Heath Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
Site Assessment and Preferential Pathway Survey Report
Former Chevron Service Station 9-9708
5910 MacArthur Boulevard
Oakland, California

Date:
July 27, 2012

Contact:
Toni DeMayo

Phone:
714.508.2657

Email:
Toni.DeMayo@arcadis-us.com

Our ref:
B0060901.9708

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS has prepared this report to present the results of the recent site assessment activities associated with the former Chevron Service Station 9-9708 located at 5910 MacArthur Boulevard in Oakland, California (site). Site investigation activities were performed in accordance to ARCADIS' *Work Plan for Site Assessment Activities and Preferential Pathway Survey (Work Plan)*, dated December 16, 2011 and ARCADIS' *Addendum to Work Plan for Site Assessment and Preferential Pathway Survey (Addendum to Work Plan),* dated May 4, 2012. The original Work Plan was conditionally approved by Alameda County Environmental Health (ACEH) as indicated in a letter dated April 5, 2012. The Addendum to Work Plan was conditionally approved by ACEH via electronic mail (e-mail) on May 10, 2012.

The purpose of the assessment was to characterize and evaluate possible soil and groundwater impacts associated with the former used oil underground storage tank (UST).

Site Description and Features

The site is currently an active Valero branded service station located at 5910 MacArthur Boulevard in Oakland, California (Figure 1). The site is located on the southeast corner of MacArthur Boulevard and Seminary Avenue. The site is bounded by a mixed commercial and residential building which shares an open parking lot.

Current site features include a convenience store, three gasoline USTs and two dispenser islands with associated canopies (Figure 2).

Soil Boring Installation

Between June 12 and June 15, 2012, Cascade Drilling, LP (Cascade) of Richmond, California, under the supervision of ARCADIS, advanced nine soil borings (B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, and B-9) and collected grab groundwater samples from each boring to evaluate the potential onsite extent of petroleum hydrocarbon impacts to soil and groundwater.

Soil Borings

Nine soil borings were advanced at the approximate locations shown on Figure 2. Prior to drilling, all borings were hand cleared with a hand auger to a minimum depth of 8 feet 1 inch bgs. Boring B-1 was hand augered to approximately 7 feet bgs where refusal was met. An air knife was used to clear the boring to 8 feet 1 inch. Boring B-6 was hand cleared with a hand auger until meeting refusal at 5 feet bgs. An air knife was used to see if the boring could be hand cleared to the minimum depth of 8 feet 1 inch. However, refusal was met at 5.5 feet bgs after two attempts in moving the location. Boring B-9 was hand augered to approximately 4.5 feet bgs where refusal was met. An air knife was used to attempt to clear B-9 to the minimum depth. However, refusal was met at 4.5 feet bgs after three attempts of moving the location. Boring B-5 was not advanced during drilling activities due to the proximity of subsurface utilities and structures.

Following utility clearance, six borings (B-1, B-2, B-3, B-4, B-7 and B-8) were advanced using a direct push rig. Total depth of each boring ranged from 20 to 30 feet bgs and was determined in the field when a confining unit was observed.

The soil types encountered were predominately silt underlain by clayey gravel, silty sand and sandy silt. Cross section location map and cross sections are presented in Figures 3 through 6. Boring logs are included in Attachment 1.

Soil Sampling

Soil samples were collected using 4 foot long acetate sleeves. The samples were logged for soil characteristics and screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). Two soil samples, one shallow and one deep, were collected each boring location and submitted for chemical analysis. The shallow soil sample was collected from 0 to 8 feet bgs and the deep soil sample was collected right above the groundwater table.

Soil Analytical Data

Following collection, all soil samples were packed on ice, cooled to approximately 4 degrees centigrade and delivered, under chain-of-custody protocols, to TestAmerica, Incorporated (TestAmerica) of Pleasanton, California, a California Department of Health Services-certified analytical laboratory. The samples were shipped from their Pleasanton facility to their Irvine facility for analysis. Soil samples were analyzed for the presence of the following constituents:

- Total petroleum hydrocarbons as diesel range organics [TPH-DRO (C_{10}-C_{28})], by United States Environmental Protection Agency (USEPA) Method 8015B Modified with and without silica gel clean up
- TPH-Motor Oil (TPH-MO) by USEPA Method 8015B Modified with and without silica gel clean-up
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by USEPA Method 8260B
- Halogenated VOCs by USEPA 8260B
- Cadmium, chromium, lead, nickel and zinc by USEPA Method 6010B
- Polychlorinated biphenyls (PCBs) by USEPA 8082

Soil Analytical Results

A total of 13 soil samples were collected for chemical analysis. TPH-DRO and TPH-MO was detected in 2 of the 13 soil samples analyzed without silica gel clean-up. The maximum detected concentration of TPH-DRO was collected at B-2 at 12 feet bgs with a concentration of 610 mg/kg. The maximum detected concentration of TPH-MO was at B-1 at 12 feet bgs with a concentration of 330 mg/kg. TPH-DRO and TPH-MO was detected in 3 of the 13 soil samples analyzed with silica gel clean-up. The maximum detected concentrations of 500 mg/kg and 280 mg/kg, respectively, were collected from 12 feet bgs in boring B-1. Except for samples collected from borings B-7 and B-8, BTEX was not detected above their respective laboratory reporting limits in the soil samples submitted for laboratory analysis. Ethylbenzene was detected at 14 feet bgs from B-7 and B-8 with concentrations of 0.350 mg/kg and 0.0021 mg/kg, respectively. MTBE was detected at a concentration of 0.013

mg/kg in B-8 at 6 feet bgs. PCBs were not detected above their respective laboratory reporting limits in all soil samples submitted for laboratory analysis. Lead, zinc, nickel and chromium were detected in all soil samples submitted for laboratory analysis with maximum concentrations of 18 mg/kg in B-6 at 4 feet bgs, 330 mg/kg in B-4 at 12 feet bgs, 380 mg/kg in B-2 at 2 feet bgs and 130 mg/kg in B-2 at 2 feet bgs, respectively. Cadmium was detected in B-4 at 8 feet bgs and 12 feet bgs with concentrations of 0.49 mg/kg and 1.5 mg/kg, respectively. With the exception of B-7, halogenated VOCs were not detected in any of the soil samples.

TPH-DRO and nickel were the only two analytes detected in soil at a concentration meeting or exceeding their respective Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for commercial/industrial soil less than or equal to 3 meters, for shallow soil samples, and soil greater than 3 meters, for deep soil samples, where groundwater is a current or potential drinking water source. TPH-DRO was detected at 590 mg/kg and 610 mg/kg in samples analyzed without silica gel clean-up from B-1 at 12 feet bgs and B-2 at 12 feet bgs, respectively. TPH-DRO was detected at 500 mg/kg and 260 mg/kg in samples analyzed with silica gel clean-up from B-1 at 12 feet bgs and B-2 at 12 feet bgs, respectively. Nickel was detected at 6 of the 7 shallow soil samples collected with concentrations ranging from 150 mg/kg (B-3) to 380 mg/kg (B-2). These results exceed the ESL of 150 mg/kg for soils less than or equal to 3 meters bgs.

Soil analytical data are summarized in Table 1 and 2. Figure 7 presents a soil concentration distribution map. The laboratory analytical report with chain-of-custody records are presented in Attachment 2.

Note that TPH-DRO and TPH-MO results presented on the figure were analyzed with silica gel clean-up. Since bulk TPH analyses do not measure specific compounds, but rather the total mass of organic compounds within a given elution range of the gas chromatograph. Non-petroleum compounds, including partially weathered polar biodegradation products and some natural organic matter, may co-elute with hydrocarbon constituents and be reported as bulk TPH-DRO. Studies (Zemo 2003, Zemo and Foote 2006, Lang et al. 2009) suggest that the polar partially weathered non-petroleum hydrocarbon compounds can contribute to TPH-DRO concentrations well above the expected aqueous solubility of diesel (which is approximately 5 mg/L). Silica gel cleanup applied following sample extraction has been shown to yield a more representative analysis of actual petroleum hydrocarbon in a groundwater sample.

Grab Groundwater Sampling

Once the borings reached their respected total depth, a ¾ inch outer diameter (OD) poly-vinyl chloride (PVC) with 10 feet of 0.010 inch slotted screen were lowered in each boring location (B-1 through B-4, B-7 and B-8) to collect a grab groundwater sample. Grab groundwater samples were collected using a peristaltic pump and disposable tubing and directly into the appropriate laboratory-supplied sample containers.

Boring B-8 was installed on June 14, 2012. When PVC was lowered into the boring to collect a grab groundwater sample, the boring was dry. The PVC was left in the boring overnight and was secured with a cold asphalt patch. On June 15, 2012, the boring had insufficient water to collect the full suite of sample containers. Only VOCs and metals were collected from this boring.

Grab Groundwater Analytical Data

Following collection, the groundwater samples (B-1, B-2, B-3, B-4, B-7, and B-8) were packed on ice, cooled to approximately 4 degrees centigrade, and delivered, under chain-of-custody protocols, to Test America. The groundwater samples were analyzed for the presence of the following constituents:

- TPH-DRO (C_{10}-C_{28}), by USEPA Method 8015B Modified with and without silica gel clean up
- TPH-MO by USEPA Method 8015B Modified with and without silica gel clean up
- BTEX and MTBE by USEPA Method 8260B
- Halogenated VOCs by USEPA 8260B
- Cadmium, chromium, lead, nickel and zinc by USEPA Method 6010B
- Polychlorinated biphenyls (PCBs) by USEPA 8082

Groundwater Analytical Results

TPH-DRO was detected in 3 of the grab groundwater samples analyzed without silica gel clean-up with the maximum concentration of 1,500 µg/L at B-2. TPH-MO was detected in 2 of the grab groundwater samples analyzed without silica gel clean-up with the maximum concentration of 900 µg/L at B-2. TPH-DRO and TPH-MO concentrations analyzed with silica gel clean-up were not detected above the respective laboratory reporting limits. With the exception of B-7 and B-8, BTEX and MTBE were not detected above the respective laboratory reporting limits in any grab groundwater samples. Both grab groundwater samples from B-7 and B-8 had detected concentrations of benzene, ethylbenzene and MTBE. The maximum detected concentration of benzene was 0.90 ug/L in B-7. The maximum detected concentration of ethylbenzene was 14 ug/L in B-8. The maximum detected concentration of MTBE was 12 ug/L in B-8. PCBs were not detected above the respective laboratory reporting limits. Lead and zinc were detected in 5 of 6 grab groundwater samples. Nickel and chromium were detected in all 6 of the grab groundwater samples. The maximum concentration of lead, zinc, nickel and chromium were from B-4 with concentrations of 750 µg/L, 5,100 µg/L, 5,800 µg/L, and 3,500 µg/L, respectively. Cadmium was not detected above the respective laboratory reporting limits in any of the 6 groundwater samples submitted for laboratory analysis.

TPH-DRO and TPH-MO, analyzed without silica gel cleanup, was detected in groundwater at a concentration meeting or exceeding their respective RWQCB ESLs for commercial/industrial area where groundwater is a current or potential drinking water source. TPH-DRO was detected at 960 ug/L and 1,500 ug/L analyzed without silica gel clean-up from B-1 and B-2, respectively. MTBE was detected above the ESL at B-8 with a concentration of 12 ug/L. 5 of the 6 groundwater samples analyzed for lead, zinc and chromium exceeded their respective ESL with concentrations ranging from 10 ug/L (B-7) to 750 ug/L (B-4) for lead, 68 ug/L (B-7) to 5,100 ug/L (B-4) for zinc and 65 ug/L (B-7) to 3,500 ug/L (B-4) for chromium. All 6 groundwater samples exceeded the ESL for nickel with concentrations ranging from 83 ug/L (B-7) to 5,800 ug/L (B-8). However, TPH-DRO and TPH-MO concentrations were not detected in the 6 groundwater samples collected that were analyzed with silica gel cleanup.

Boring B-8 had insufficient groundwater in the boring for the full suite of sample containers needed for requested chemical analysis. Only VOCs and metals were analyzed from this location.

Groundwater analytical data are summarized in Table 3 and 4. Figure 8 presents grab groundwater concentration distribution map. Note that TPH-DRO and TPH-MO results presented on the figure were analyzed with silica gel clean-up. Refer to earlier text regarding TPH analyzed with silica gel clean-up. The laboratory analytical report with chain-of-custody records are presented in Attachment 2.

Following completion of the grab groundwater sampling, the PVC was removed from each boring and the boreholes were tremie grouted to ground surface. A concrete patch, dyed to match surface conditions, was used for the surface completion.

Investigated Derived Waste

Soil cuttings generated during the assessment activities were temporality stored onsite in labeled 55 gallon drums pending characterization and disposal. Investigative derived waste manifests will be submitted under a separate cover and will be uploaded onto GeoTracker once it is received.

Preferential Pathway Survey

Utility Survey

A subsurface utility survey was completed on March 5, 2012 at the site to assess the potential preferential pathways (e.g., water, electric and gas utility trenches) on and near the site. Utilities were identified by a combination of underground service alert (USA) and a private utility surveyor (Cruz Brothers Locators [Cruz]). Figure 9 presents a subsurface utility map. Since the depths of most of the utilities were unknown, the conduits of the utilities were not included in the cross sections. Depth to groundwater has historically ranged between 9.39 (2006/MW-1) to 15.35 (2004 and 2007/MW-2) feet bgs from monitoring wells associated with the site.

A summary of the conduit survey results are presented below.

Water Lines

The actual depth of the water line could not be determined. The water line runs along the southern side of Seminary Avenue and northern side of MacArthur Boulevard. The water line connects at the intersection of Seminary Avenue and MacArthur Boulevard.

Since the utility is located off site and does not intersect the site it is unlikely to intersect groundwater and act as a conduit for hydrocarbon migration. Historical groundwater levels indicate that groundwater is deeper than 9 feet bgs.

Communication Utilities

The depth of the communication utilities could not be determined. However, the communication utilities are located on the south-southeast portion of the site which is cross-gradient to historical groundwater flow. In addition, communication lines are relatively shallow.

This utility is not likely to intersect groundwater and act as a conduit for hydrocarbon migration since groundwater is deeper than the conduit.

Sanitary Sewer System

The actual depth of the sanitary sewer could not be determined. The sewer line runs along the northern and southern side of Seminary Avenue, and the northern side of MacArthur Boulevard right outside the site property line.

This utility does not appear to have intersected groundwater and act as a conduit for hydrocarbon migration.

Electrical Utilities

The depth of the electrical utilities, according to Cruz, range from 5 inches to 17 inches bgs. Multiple electrical conduits run from the station building to the dispenser islands and planters. A high voltage electrical line runs along the southeast boundary of the site. The depth of this utility is unknown.

This utility does not appear to have intersected groundwater since monitoring and sampling began at the site since the depth of the utility is shallow.

Storm Drain and Piping

The actual depth of the storm drain is unknown. The storm drain appears to run through the northwest portion of the site and along the northern side of MacArthur Boulevard. The storm drain lines connect at the intersection of Seminary Avenue and MacArthur Boulevard.

Miscellaneous Subsurface Utilities

Cruz located additional unknown utilities in the northwest portion of the site. These utilities are likely to be shallow. Thus unlikely to intersect groundwater and act as a conduit for hydrocarbon migration.

Groundwater has historically flowed northwest at the site. Utilities located in this direction are the onsite electrical lines running to the dispenser islands and planters. Offsite subsurface utilities in this direction include water, sanitary sewer and storm drain. However, concentrations of petroleum hydrocarbons have generally been nondetect or low at monitoring well MW-2, located in the northwest direction of the site. In addition, these utilities are generally shallower than 9 feet bgs. Historic groundwater has not been recorded higher than 9.39 feet bgs. Thus subsurface utilities on and off site do not appear to have intersected groundwater and act as a conduit for hydrocarbon migration.

Well Survey

To verify other potential receptors of groundwater, logs for wells within a one quarter mile radius of the site were obtained from the California Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA). Table 5 summarizes the result of the well receptor survey from files obtained from ACPWA. The table includes any active, inactive, standby, decommissioned, abandoned and dewatering, drainage and cathodic wells within a one quarter mile radius of the site. 5 monitoring wells, 1 test well, 1 cathodic well, 1 abandoned well and 1 unknown well were identified in this one quarter mile radius well search. Figure 8 presents the well survey map. The latitude and longitude coordinates were provided by ACPWA and plotted on the map. However, there was only one well log available from this table, Well ID 10, which was a cathodic well installed to 120 feet bgs by Pacific Gas & Electric in May 1974. Well construction details were not specified on the well completion report. Table 5 also presents wells located and associated to 5901 and 6001 MacArthur Boulevard. According to GeoTracker, these two addresses are associated with case closures indicating that these monitoring wells are now abandoned.

The files obtained from the California DWR indicated that there was potentially 9 wells (6 monitoring wells and 3 unknown wells) located on Mills College that is near our site. However, the exact location of these wells is unknown and are not presented in Table 5 or Figure 10.

Conclusions

The distribution of petroleum hydrocarbons in soil and groundwater indicate that there are residual TPH-DRO and TPH-MO in the vicinity of the former used oil UST. However, the distribution shows that the residual concentration of petroleum hydrocarbons are not migrating from the vicinity of the former used oil UST. PCBs were not detected in soil or groundwater at all locations. Subsurface utilities are likely to be shallower than historic and current groundwater measurements. Thus, are unlikely to intersect groundwater and act as a conduit for hydrocarbon migration. The well survey results show that the location of the known wells are either upgradient or cross-gradient from the site. Since groundwater flow is generally northwest, these wells most likely do not provide a preferential pathway for the migration of petroleum hydrocarbons. ARCADIS recommends the site be considered for low-risk closure.

If you have any questions or comments regarding the content of this letter, please contact Toni DeMayo by telephone at 714.508.2657 or by e-mail at Toni.DeMayo@arcadis-us.com or Melissa Blanchette by telephone at 503.220.8201 extension 1113 or by e-mail at Melissa.Blanchette@arcadis-us.com.

Sincerely,

ARCADIS

Toni DeMayo
Project Manager

Melissa Blanchette, P.G.
Certified Project Manager II

Enclosures:

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Figure 9	Subsurface Utility Map
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Attachment 1	Boring Logs
Attachment 2	Soil and Groundwater Laboratory Analytical Reports with Chain-of-Custody Record

Copies:
Ms. Kelly Esters, Chevron Environmental Management Company
Mr. Nisson Saidon, Property Owner

References

Lang, D., Bastow, T., van Aarssen, B., Davis, B., and Johnston, C. . 2009. Groundwater Monitoring and Remediation. Polar Compounds from the Dissolution of Weathered Diesel. Volume 29, pp 85-93.

Zemo, D.A. 2006. Groundwater Monitoring and Remediation. Sampling in the Smear Zone: Evaluation of Nondissolved Bias and Associated BTEX, MTBE and TPH Concentrations in Groundwater Samples. Volume 26, pp 125-133.

Zemo, D.A. and G.R. Foote. 2003.Groundwater Monitoring and Remediation. The Technical Case for Eliminating the Use of the TPH Analysis in Assessing and Regulating Dissolved Petroleum Hydrocarbons in Ground Water. Volume 23, pp 95-104.

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Tables

Table 1
Soil Analytical Results
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard, Oakland, CA

Sample Name	Sample Date	Sample Depth (feet bgs)	Diesel Range Organics (EPA 8015B)				VOCs (EPA 8260B)					PCBs (EPA Method 8082)	Metals (EPA 6010B)				
			TPH-DRO (mg/kg)	TPH-DRO with silica gel(mg/kg)	TPH-MO (mg/kg)	TPH-MO with silica gel(mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	PCBs (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)	Nickel (mg/kg)	Chromium (mg/kg)	Cadmium (mg/kg)
ESLs for Shallow Soils (≤3m bgs) Groundater is Current or Potential Source of Drinking Water[1]			83	83	2,500	2,500	0.044	2.9	3.3	2.3	0.023	0.74	750	600	150	--	7.4
ESLs for Deep Soils (>3m bgs) Groundater is Current or Potential Source of Drinking Water[1]			83	83	5,000	5,000	0.044	2.9	3.3	2.3	0.023	6.3	750	5,000	260	5,000	39
B-1	06/12/12	4	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	15	93	**310**	170	<1.0
	06/14/12	12	**590**	**500**	330	280	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	14	74	120	90	<1.0
B-2	06/14/12	2	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	16	97	**380**	130	<2.5
	06/14/12	12	**610**	**260**	310	250	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	14	76	98	65	<1.0
B-3	06/14/12	4	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	13	79	**150**	83	<2.5
	06/15/12	12	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	7.8	37	71	71	<0.50
B-4	06/13/12	8	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	13	38	30	34	0.49
	06/16/12	12	80	<10	33	<10	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	8.7	330	120	77	1.5
B-6	06/13/12	4	<5.0	5.9	<5.0	8.8	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	18	96	**220**	99	<1.0
B-7	06/13/12	6	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.050	14	96	**200**	81	<1.0
	06/13/12	14	<15	<15	<15	<15	<0.0097	<0.0097	0.350	<0.0097	<0.024	<0.050	13	62	96	55	<1.0
B-8	06/14/12	6	<5.0	<5.0	<5.0	<5.0	<0.0020	<0.0020	<0.0020	<0.0020	0.013	<0.050	13	87	**190**	110	<0.99
	06/14/12	14	<15	<5.0	<15	<5.0	<0.0020	<0.0020	0.0021	<0.0020	<0.0050	<0.050	12	63	93	57	<0.99

Explanation

EPA	Environmental Protection Agency
bgs	Below ground surface
TPH-DRO	Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
MTBE	Methyl Tertiary Butyl Ether
PCB	Polychlorinated Biphenyls (All Aroclors were not detected)
ESL	Environmental Screening Level (*Screening for Environmental Concerns at Sites with Contaminates Soil and Groundwater),* California RWQCB-San Francisco Bay Region, Interim Final - November 2007 (Revised May 2008)
mg/kg	Milligrams per kilogram
<0.0005	Not detected at concentration threshold as shown
--	Not Applicable
BOLD	Concentrations meets or exceeds their respective ESL
[1]	For Commercial/Industrial Land Use Only

Table 2
Soil Analytical Data - Additional VOCs
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard, Oakland, CA

Sample Name	Sample Date	Sample Depth (feet bgs)	VOCs (EPA 8260B)										
			1,2,4-Trimethylbenzene (mg/kg)	1,2-Dichlorobenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Chloroform (mg/kg)	Isopropylbenzene (mg/kg)	Naphthalene (mg/kg)	n-Butylbenzene (mg/kg)	N-Propylbenzene (mg/kg)	sec-Butylbenzene (mg/kg)	tert-Butylbenzene (mg/kg)	p-Isopropyltoluene (mg/kg)
ESLs for Shallow Soils (≤3m bgs) Groundater is Current or Potential Source of Drinking Water[1]			--	1.1	--	1.5	--	2.8	--	--	--	--	--
ESLs for Deep Soils (>3m bgs) Groundater is Current or Potential Source of Drinking Water[1]			--	1.1	--	2.1	--	3.4	--	--	--	--	--
B-1	06/12/12	4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	06/14/12	12	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
B-2	06/14/12	2	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	06/14/12	12	<0.0020	0.0023	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	0.0065	<0.0050	<0.0020
B-3	06/14/12	4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	06/15/12	12	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
B-4	06/13/12	8	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	05/16/12	12	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
B-6	06/13/12	4	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
B-7	06/13/12	6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	06/13/12	14	0.075	<0.0097	0.056	<0.0097	0.094	0.200	0.210	0.340	0.056	0.200	0.038
B-8	06/14/12	6	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	<0.0020	<0.0050	<0.0050	<0.0020
	06/14/12	14	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050	0.0035	<0.0050	<0.0050	<0.0020

Explanation

bgs	Below ground surface
mg/kg	Milligrams per kilogram
EPA	Environmental Protection Agency
ESL	Environmental Screening Level (*Screening for Environmental Concerns at Sites with Contaminates Soil and Groundwater),* California RWQCB-San Francisco Bay Region, Interim Final - November 2007 (Revised May 2008)
<0.0005	Not detected at concentration threshold as shown
--	Not Applicable
BOLD	Concentrations meets or exceeds their respective ESL
[1]	For Commercial/Industrial Land Use Only

Table 3
Grab Groundwater Analytical Data
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard, Oakland, CA

Sample Name	Sample Date	Diesel Range Organics (EPA 8015B)				VOCs (EPA 8260B)					PCBs (EPA 8082)	Metals (EPA 6010B)				
		TPH-DRO (µg/L)	TPH-DRO with silica gel (µg/L)	TPH-mo (µg/L)	TPH-mo with silica gel(µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	PCBs (µg/L)	Lead (µg/L)	Zinc (µg/L)	Nickel (µg/L)	Chromium (µg/L)	Cadmium (µg/L)
ESLs for Deep Soils (>3m bgs) Groundater is Current or Potential Source of Drinking Water[1]		100	100	100	100	1	40	30	20	5	0.014	2.5	81	8.2	50	0.025
California MCLs		--	--	--	--	1	150	300	1,750	13	0.5	15	--	100	--	5
B-1	06/14/12	**960**	<480	**710**	<480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.97	**22**	**460**	**890**	**390**	<10
B-2	06/15/12	**1,500**	<490	**900**	<490	<0.50	<0.50	<0.50	<0.50	<0.50	<1.4	<5.0	<20	**46**	13	<50
B-3	06/15/12	<72	<480	<72	<480	<0.50	<0.50	<0.50	<0.50	<0.50	<0.95	**310**	**1,600**	**3,000**	**1,300**	<50
B-4	06/15/12	77	<500	<49	<500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.99	**750**	**5,100**	**5,800**	**3,500**	<50
B-7	06/15/12	<48	<480	<48	<480	0.90	<0.50	3.6	<0.50	2.3	<0.96	**10**	**68**	**83**	**65**	<50
B-8*	06/15/12	--	--	--	--	0.56	<0.50	14	<0.50	**12**	--	**180**	**1,700**	**2,100**	**1,300**	<50

Explanation

bgs	Below ground surface
TPH-DRO	Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
MTBE	Methyl Tertiary Butyl Ether
PCB	Polychlorinated Biphenyls (All Aroclors were not detected)
EPA	Environmental Protection Agency
µg/L	Micrograms per liter
ESL	Environmental Screening Level (*Screening for Environmental Concerns at Sites with Contaminates Soil and Groundwater),* California RWQCB-San Francisco Bay Region, Interim Final - November 2007 (Revised May 2008)
MCL	Maximum Contaminant Level
<0.0005	Not detected at concentration threshold as shown
--	Not Analyzed/Applicable
BOLD	Concentrations meets or exceeds their respective ESL
[1]	For Commercial/Industrial Land Use Only
*	B-8 went dry before all the sample containers were filled.

Table 4
Grab Groundwater Analytical Data - Additional VOCs
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard, Oakland, CA

Sample Name	Sample Date	VOCs (EPA 8260B)										
		1,2,4-Trimethylbenzene (µg/L)	1,2-Dichlorobenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	Chloroform (µg/L)	Isopropylbenzene (µg/L)	Naphthalene (µg/L)	n-Butylbenzene (µg/L)	N-Propylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	p-Isopropyltoluene (µg/L)
ESLs for Deep Soils (>3m bgs) Groundater is Current or Potential Source of Drinking Water[1]		--	10	--	70	--	17	--	--	--	--	--
California MCLs		--	600	--	--	--	--	--	--	--	--	--
B-1	06/14/12	<0.50	<0.50	<0.50	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B-2	06/15/12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B-3	06/15/12	<0.50	<0.50	<0.50	8.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B-4	06/15/12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1	<0.50
B-7	06/15/12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.68	<0.50	0.73	<0.50
B-8	06/15/12	<0.50	<0.50	<0.50	<0.50	3.3	<0.50	<0.50	6.4	0.82	7.7	0.57

bgs	Below ground surface
EPA	Environmental Protection Agency
µg/L	Micrograms per liter
ESL	Environmental Screening Level (*Screening for Environmental Concerns at Sites with Contaminates Soil and Groundwater),* California RWQCB-San Francisco Bay Region, Interim Final - November 2007 (Revised May 2008)
MCL	Maximum Contaminant Level
<0.0005	Not detected at concentration threshold as shown
--	Not Analyzed
BOLD	Concentrations meets or exceeds their respective ESL
[1]	For Commercial/Industrial Land Use Only

Table 5
Well Survey (Within 0.25 mi. from the Site)
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard, Oakland, CA

Map ID	Latitude	Longitude	Location	Owner	Use	Date Installed	Total Depth (ft)	Boring Diameter (in)	Well Screen or Perforations (ft bgs)	Blank Casing (ft bgs)	WCR #
MONITORING WELLS											
11	122.182095	-37.775617	6001 MacArthur Blvd	Quik Stop Markets, Inc	MON	May-93	28	4	--	--	--
12	122.182095	-37.775617	6001 MacArthur Blvd	Quik Stop Markets, Inc	MON	May-93	29	4	--	--	--
13	122.182095	-37.775617	6001 MacArthur Blvd	Quik Stop Markets, Inc	MON	May-93	29	4	--	--	--
15	122.182906	-37.776056	5901 MacArthur Blvd	--	MON	Oct-95	20	4	--	--	--
16	122.182906	-37.776056	5901 MacArthur Blvd	--	MON	Oct-95	20	4	--	--	--
CATHODIC WELLS											
10	122.180518	-37.777407	MACARTHUR BLVD & 61TH ST	PG&E	CAT	May-74	120	--	--	--	120160
TEST WELL											
14	122.182938	-37.77603	5901 MacArthur Blvd	Wickland Properties	TES	Oct-93	26	4	--	--	--
ABANDONED WELLS											
9	122.180518	-37.777407	5000 MACARTHUR BLVD	MILLS COLLEGE	ABN	--	0	6	--	--	--
UNKNOWN WELLS											
8	122.180494	-37.781117	BEHIND MILL POND	MILLS COLLEGE	--	--	0	0	--	--	--

Explanation

ft	feet
in	inch
bgs	below ground surface
WCR	Well Completion Report
--	Not Available

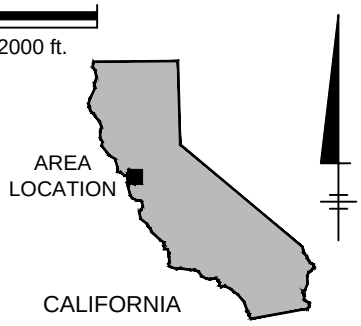
ARCADIS

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST, CALIFORNIA, 2012.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA

SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY: PETALUMA, CA DIV/GROUP: ENVCAD DB: J. HARRIS
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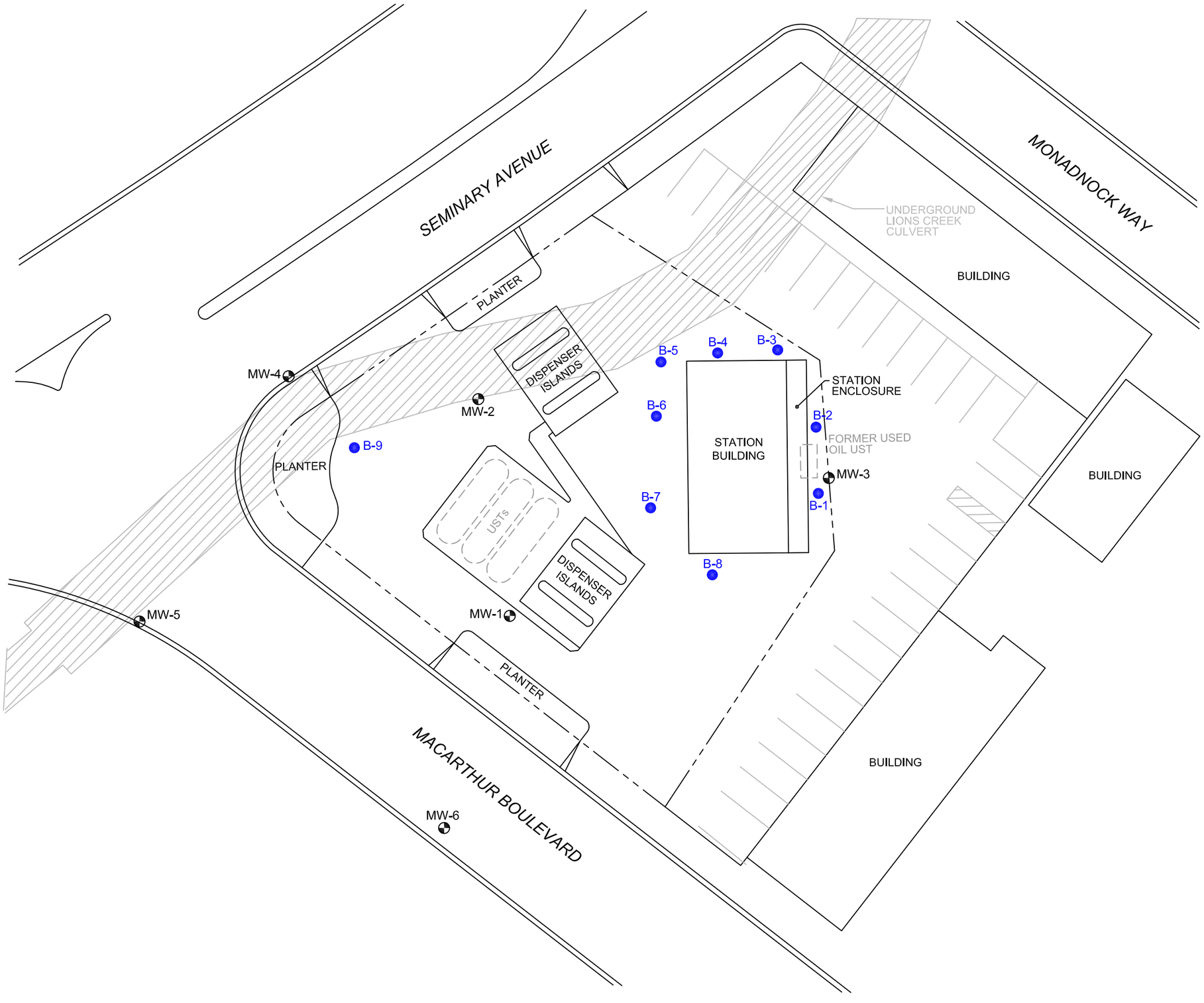


LEGEND:

- PROPERTY LINE
- MW-1 MONITORING WELL
- B-1 BORING LOCATION (APPROXIMATE)
- UST UNDERGROUND STORAGE TANK

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, AT A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.

0 30' 60'

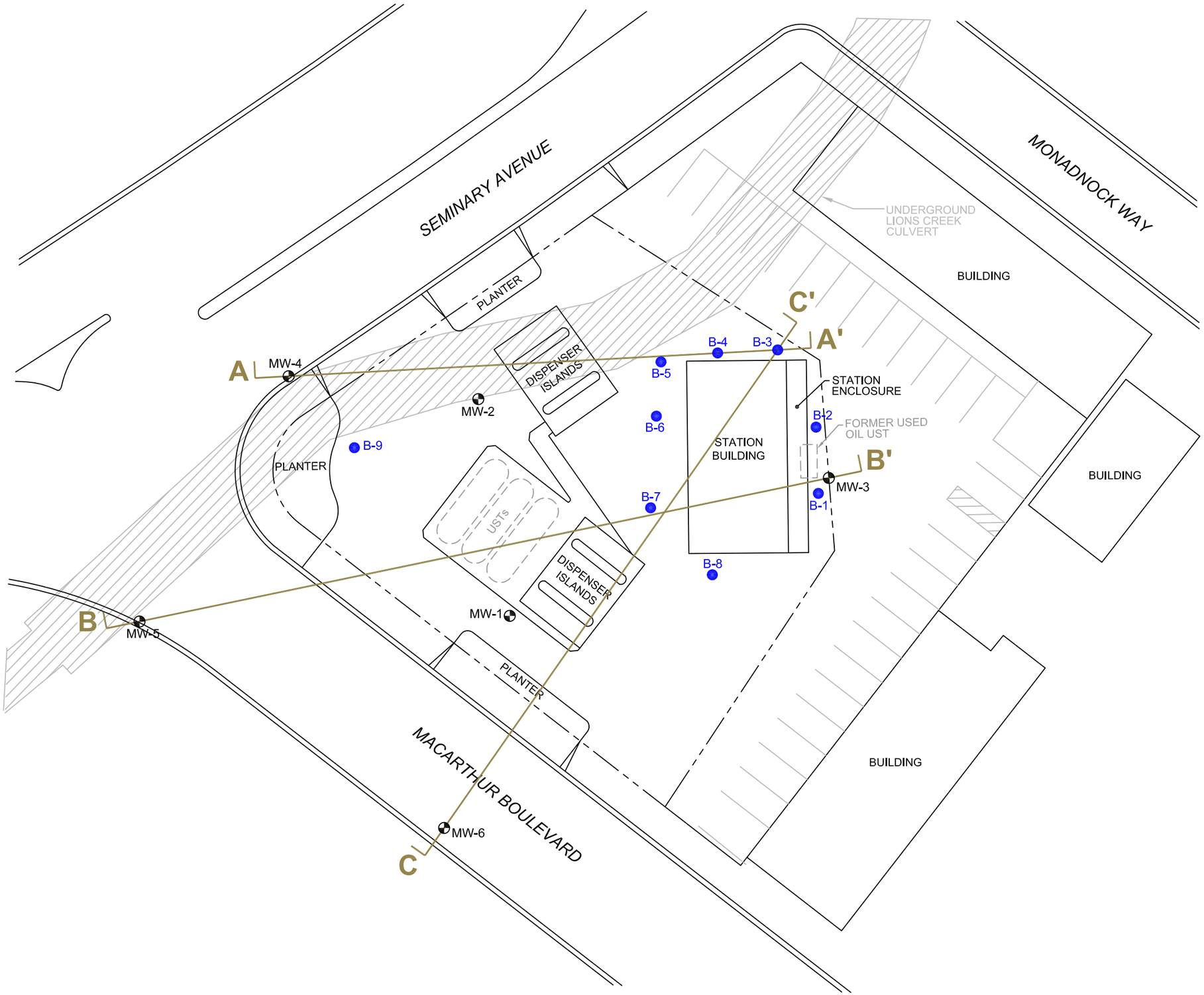
GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

SITE MAP WITH SOIL BORING LOCATIONS

ARCADIS

FIGURE
2



LEGEND:

- PROPERTY LINE
- MW-1 MONITORING WELL
- B-1 BORING LOCATION (APPROXIMATE)
- UST UNDERGROUND STORAGE TANK
- A A' LINE OF GEOLOGIC CROSS SECTION

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, AT A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

CROSS SECTION LOCATION MAP

ARCADIS

FIGURE 3

CITY: PETALUMA, CA DIV/GROUP: ENVCAD DB: (P. LISTER), J. HARRIS
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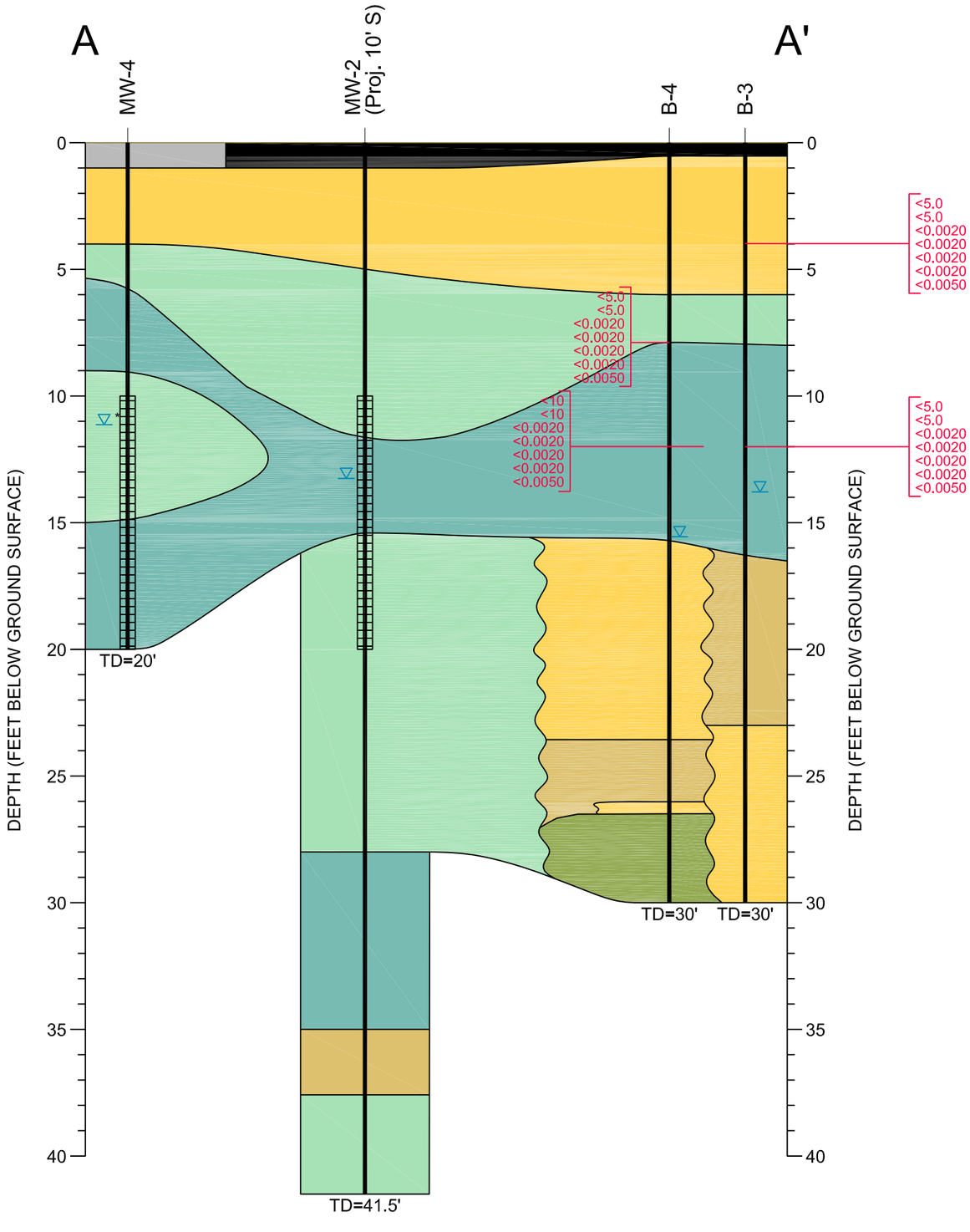


LEGEND

MW-4 — WELL / BORING ID

GROUND SURFACE

LITHOLOGIC CONTACT

SCREEN INTERVAL

TD=20' — TOTAL DEPTH (FEET)

WATER LEVEL MEASUREMENT (FIRST SIGN OF WATER FROM BORING OR MEASUREMENT FROM MONITORING WELL COLLECTED IN DECEMBER 2011)

- ASPHALT
- CONCRETE
- SANDY CLAY AND CLAY
- CLAYEY GRAVEL
- SANDY SILT AND SILT
- SILTY SAND
- SAND AND CLAYEY SAND

<5.0	TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS WITH SILICA GEL CLEAN-UP
<5.0	TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL WITH SILICA GEL CLEAN-UP
<0.0020	BENZENE
<0.0020	TOLUENE
<0.0020	ETHYLBENZENE
<0.0020	TOTAL XYLENES
<0.0050	METHYL TERTIARY BUTYL ETHER

* FROM JUNE 2011 SINCE DECEMBER 2011 DATA WAS NOT AVAILABLE

0 — 30' — 60'
HORIZONTAL SCALE

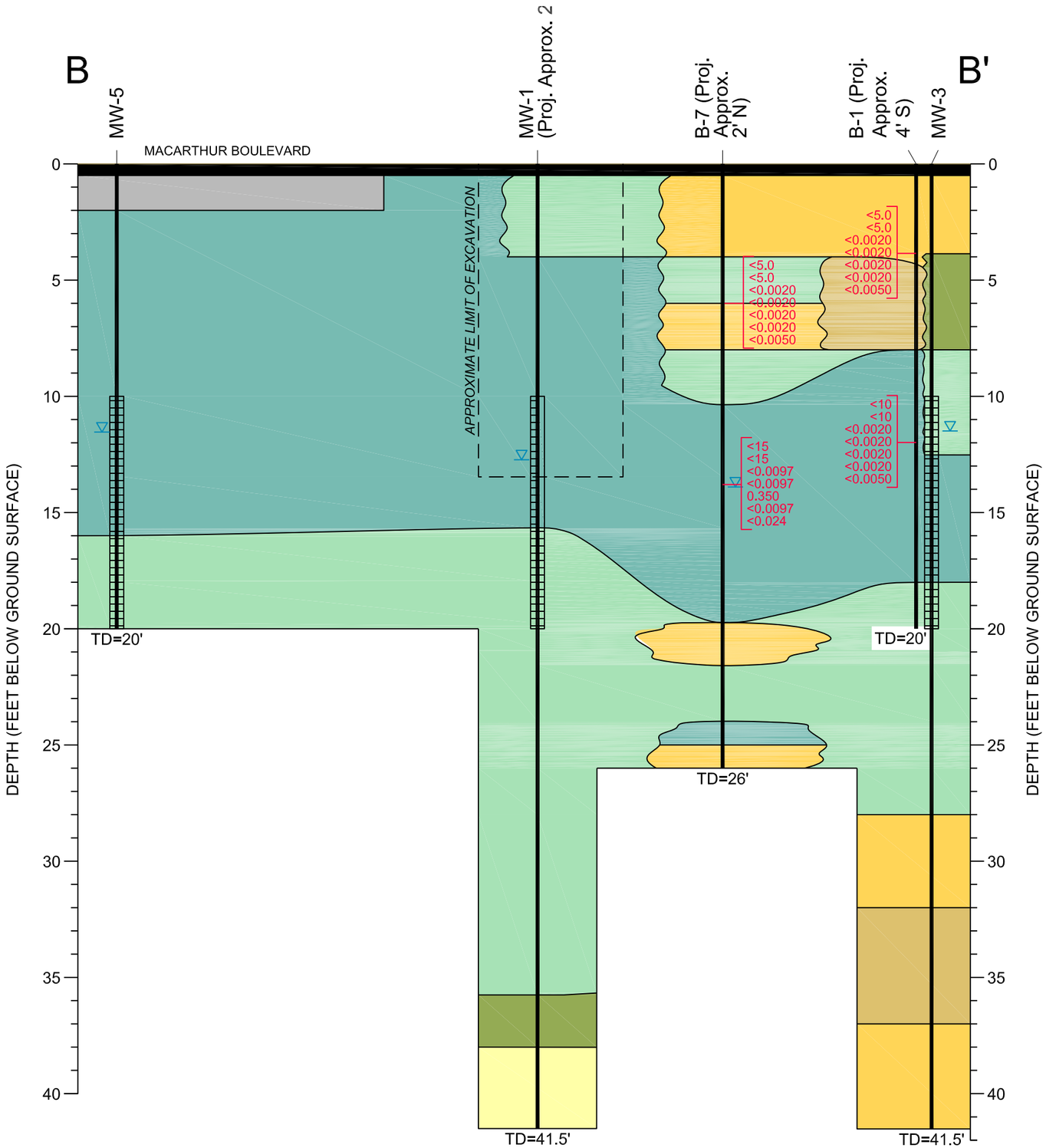
0 — 5' — 10'
VERTICAL SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

CROSS SECTION A-A'

ARCADIS

FIGURE 4



LEGEND

MW-5 — WELL / BORING ID

GROUND SURFACE

LITHOLOGIC CONTACT

SCREEN INTERVAL

TD=20' — TOTAL DEPTH (FEET)

WATER LEVEL MEASUREMENT (FIRST SIGN OF WATER FROM BORING OR MEASUREMENT FROM MONITORING WELL COLLECTED IN DECEMBER 2011)

- ASPHALT
- CONCRETE
- SANDY CLAY AND CLAY
- CLAYEY GRAVEL
- SANDY SILT AND SILT
- SILTY SAND
- SAND AND CLAYEY SAND
- SAND WITH GRAVEL

TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS WITH SILICA GEL CLEAN-UP

TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL WITH SILICA GEL CLEAN-UP

<5.0 BENZENE

<5.0 TOLUENE

<0.0020 ETHYLBENZENE

<0.0020 TOTAL XYLENES

<0.0020 METHYL TERTIARY BUTYL ETHER

<0.0050

0 30' 60'
HORIZONTAL SCALE

0 5' 10'
VERTICAL SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

CROSS SECTION B-B'

ARCADIS

FIGURE 5

CITY: PETALUMA, CA DIV/GROUP: ENVCAD DB: (P. LISTER), J. HARRIS
G:\ENVCAD\Roseville-CA\RETURN-TO\Petaluma-CA\B00690019708\00002\SA&PPSR\DWG\660901V02.dwg LAYOUT: 5 SAVED: 7/17/2012 4:51 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 7/17/2012 4:51 PM BY: ROBITAILLE, BEVERLY
XREFS: IMAGES: PROJECTNAME: ---
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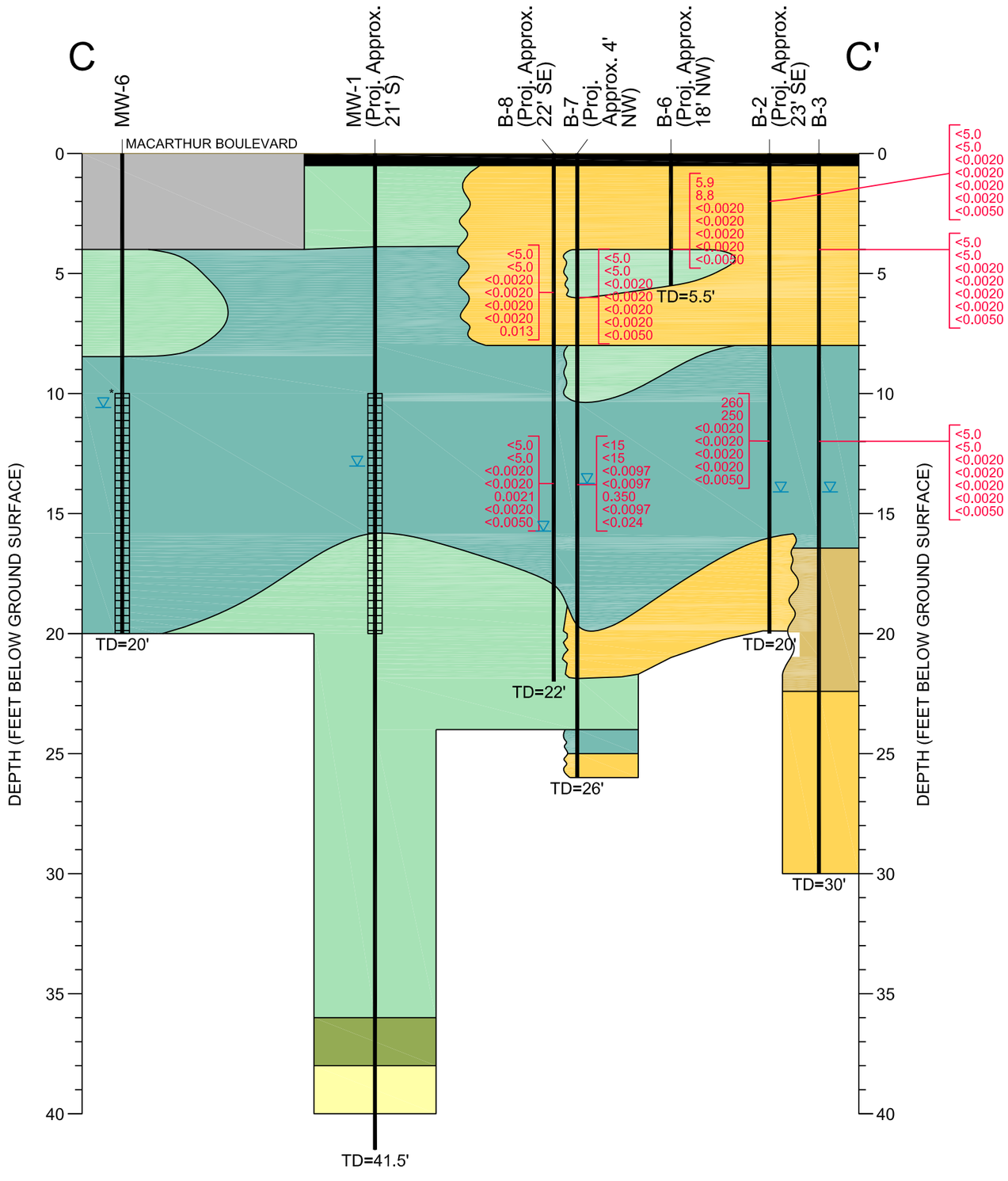


LEGEND

MW-6 — WELL / BORING ID

GROUND SURFACE

LITHOLOGIC CONTACT

SCREEN INTERVAL

TD=20' — TOTAL DEPTH (FEET)

WATER LEVEL MEASUREMENT (FIRST SIGN OF WATER FROM BORING OR MEASUREMENT FROM MONITORING WELL COLLECTED IN DECEMBER 2011)

- ASPHALT
- CONCRETE
- SANDY CLAY AND CLAY
- CLAYEY GRAVEL
- SANDY SILT AND SILT
- SILTY SAND
- SAND AND CLAYEY SAND
- SAND WITH GRAVEL

- TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS WITH SILICA GEL CLEAN-UP
- TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL WITH SILICA GEL CLEAN-UP
- BENZENE
- TOLUENE
- ETHYLBENZENE
- TOTAL XYLENES
- METHYL TERTIARY BUTYL ETHER

* FROM JUNE 2011 SINCE DECEMBER 2011 DATA WAS NOT AVAILABLE

HORIZONTAL SCALE: 0, 30', 60'

VERTICAL SCALE: 0, 5', 10'

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

CROSS SECTION C-C'

ARCADIS

FIGURE 6

B-4-8'		B-4-12'	
TPH-DRO	<5.0	TPH-DRO	<10
TPH-MO	<5.0	TPH-MO	<10
B	<0.0020	B	<0.0020
T	<0.0020	T	<0.0020
E	<0.0020	E	<0.0020
X	<0.0020	X	<0.0020
MTBE	<0.0050	MTBE	<0.0050
PCBs	<0.050	PCBs	<0.050
Lead	13	Lead	8.7
Zinc	38	Zinc	330
Nickel	30	Nickel	120
Chromium	34	Chromium	77
Cadmium	0.49	Cadmium	1.5

B-3-4'		B-3-12'	
TPH-DRO	<5.0	TPH-DRO	<5.0
TPH-MO	<5.0	TPH-MO	<5.0
B	<0.0020	B	<0.0020
T	<0.0020	T	<0.0020
E	<0.0020	E	<0.0020
X	<0.0020	X	<0.0020
MTBE	<0.0050	MTBE	<0.0050
PCBs	<0.050	PCBs	<0.050
Lead	13	Lead	7.8
Zinc	79	Zinc	37
Nickel	**150**	Nickel	71
Chromium	83	Chromium	71
Cadmium	<2.5	Cadmium	<0.50

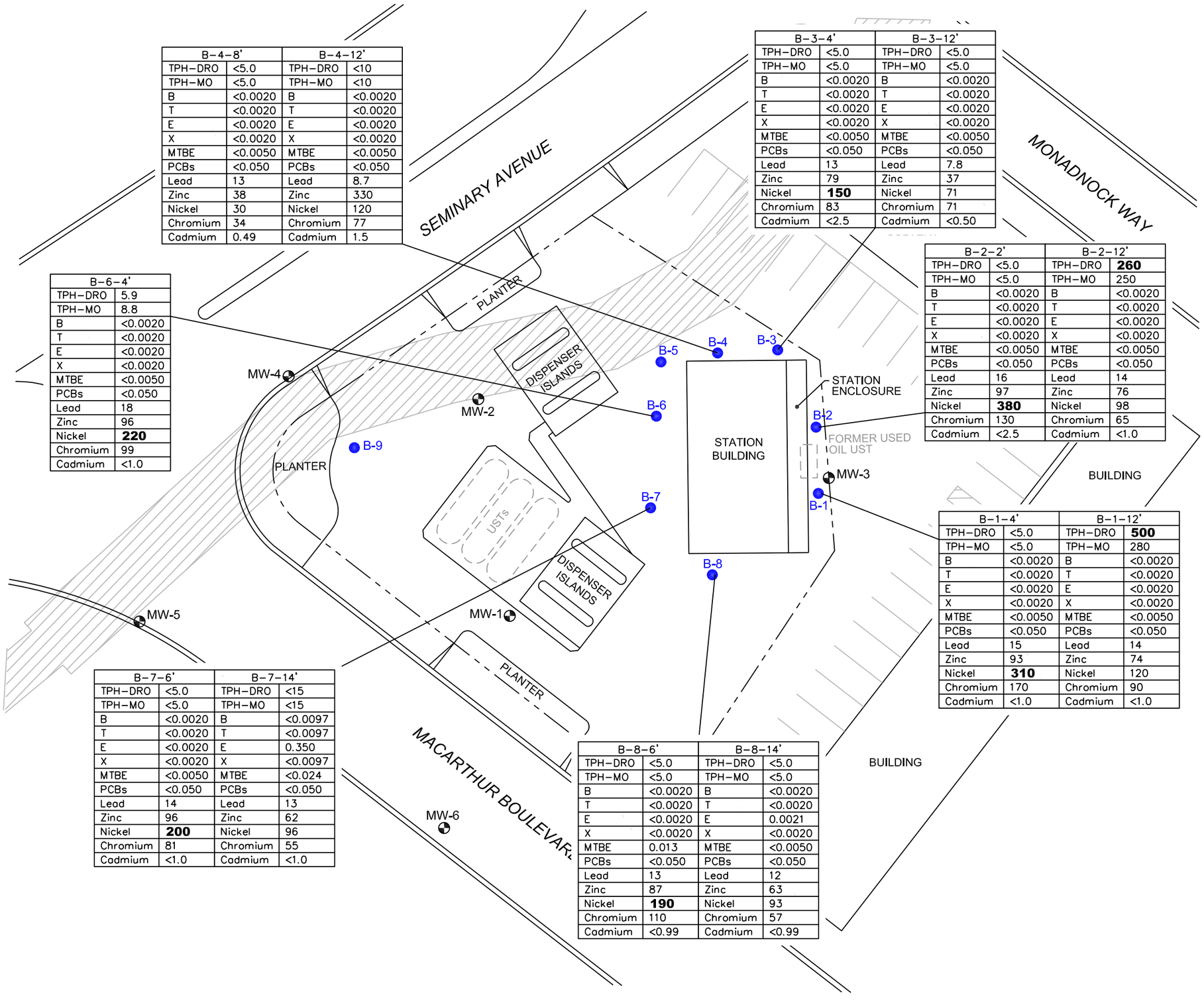
B-6-4'	
TPH-DRO	5.9
TPH-MO	8.8
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
MTBE	<0.0050
PCBs	<0.050
Lead	18
Zinc	96
Nickel	**220**
Chromium	99
Cadmium	<1.0

B-2-2'		B-2-12'	
TPH-DRO	<5.0	TPH-DRO	**260**
TPH-MO	<5.0	TPH-MO	250
B	<0.0020	B	<0.0020
T	<0.0020	T	<0.0020
E	<0.0020	E	<0.0020
X	<0.0020	X	<0.0020
MTBE	<0.0050	MTBE	<0.0050
PCBs	<0.050	PCBs	<0.050
Lead	16	Lead	14
Zinc	97	Zinc	76
Nickel	**380**	Nickel	98
Chromium	130	Chromium	65
Cadmium	<2.5	Cadmium	<1.0

B-1-4'		B-1-12'	
TPH-DRO	<5.0	TPH-DRO	**500**
TPH-MO	<5.0	TPH-MO	280
B	<0.0020	B	<0.0020
T	<0.0020	T	<0.0020
E	<0.0020	E	<0.0020
X	<0.0020	X	<0.0020
MTBE	<0.0050	MTBE	<0.0050
PCBs	<0.050	PCBs	<0.050
Lead	15	Lead	14
Zinc	93	Zinc	74
Nickel	**310**	Nickel	120
Chromium	170	Chromium	90
Cadmium	<1.0	Cadmium	<1.0

B-7-6'		B-7-14'	
TPH-DRO	<5.0	TPH-DRO	<15
TPH-MO	<5.0	TPH-MO	<15
B	<0.0020	B	<0.0097
T	<0.0020	T	<0.0097
E	<0.0020	E	0.350
X	<0.0020	X	<0.0097
MTBE	<0.0050	MTBE	<0.024
PCBs	<0.050	PCBs	<0.050
Lead	14	Lead	13
Zinc	96	Zinc	62
Nickel	**200**	Nickel	96
Chromium	81	Chromium	55
Cadmium	<1.0	Cadmium	<1.0

B-8-6'		B-8-14'	
TPH-DRO	<5.0	TPH-DRO	<5.0
TPH-MO	<5.0	TPH-MO	<5.0
B	<0.0020	B	<0.0020
T	<0.0020	T	<0.0020
E	<0.0020	E	0.0021
X	<0.0020	X	<0.0020
MTBE	0.013	MTBE	<0.0050
PCBs	<0.050	PCBs	<0.050
Lead	13	Lead	12
Zinc	87	Zinc	63
Nickel	**190**	Nickel	93
Chromium	110	Chromium	57
Cadmium	<0.99	Cadmium	<0.99



LEGEND:

- PROPERTY LINE
- MW-1 MONITORING WELL
- B-1 BORING LOCATION (APPROXIMATE)
- UST UNDERGROUND STORAGE TANK

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
TPH-MO = TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
MTBE = METHYL TERTIARY BUTYL ETHER
PCBS = POLYCHLORINATED BIPHENYSL (ALL AROCLORS)
BOLD = EXCEEDING RESPECTIVE ESL

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, AT A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. ALL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM.
4. TPH-DRO AND TPH-MO RESULTS WERE ANALYZED WITH SILICA GEL CLEAN-UP.

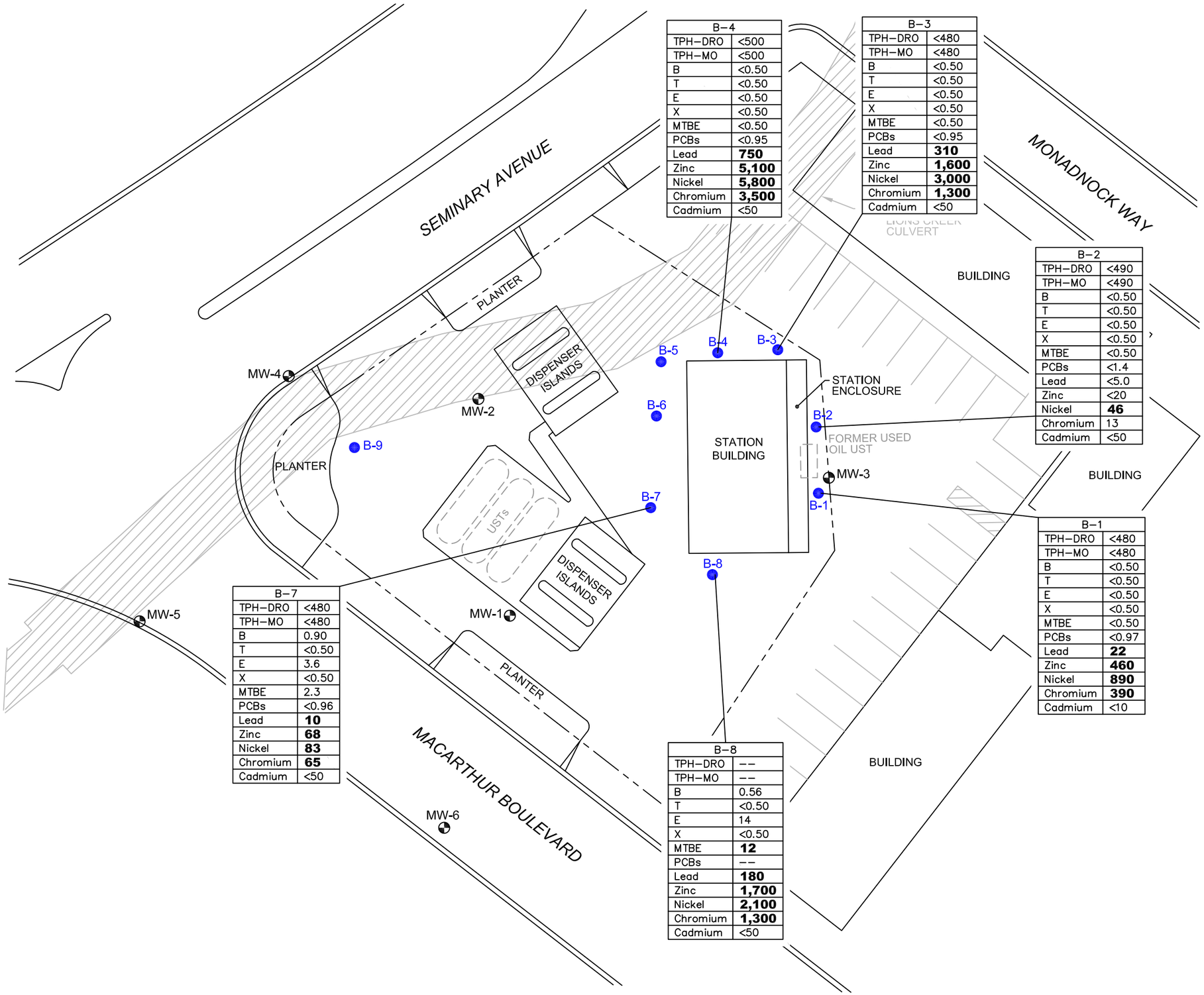
0 30' 60'
GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

SOIL CONCENTRATION DISTRIBUTION MAP

ARCADIS

FIGURE 7



B–4	
TPH–DRO	<500
TPH–MO	<500
B	<0.50
T	<0.50
E	<0.50
X	<0.50
MTBE	<0.50
PCBs	<0.95
Lead	**750**
Zinc	**5,100**
Nickel	**5,800**
Chromium	**3,500**
Cadmium	<50

B–3	
TPH–DRO	<480
TPH–MO	<480
B	<0.50
T	<0.50
E	<0.50
X	<0.50
MTBE	<0.50
PCBs	<0.95
Lead	**310**
Zinc	**1,600**
Nickel	**3,000**
Chromium	**1,300**
Cadmium	<50

B–2	
TPH–DRO	<490
TPH–MO	<490
B	<0.50
T	<0.50
E	<0.50
X	<0.50
MTBE	<0.50
PCBs	<1.4
Lead	<5.0
Zinc	<20
Nickel	**46**
Chromium	13
Cadmium	<50

B–1	
TPH–DRO	<480
TPH–MO	<480
B	<0.50
T	<0.50
E	<0.50
X	<0.50
MTBE	<0.50
PCBs	<0.97
Lead	**22**
Zinc	**460**
Nickel	**890**
Chromium	**390**
Cadmium	<10

B–7	
TPH–DRO	<480
TPH–MO	<480
B	0.90
T	<0.50
E	3.6
X	<0.50
MTBE	2.3
PCBs	<0.96
Lead	**10**
Zinc	**68**
Nickel	**83**
Chromium	**65**
Cadmium	<50

B–8	
TPH–DRO	--
TPH–MO	--
B	0.56
T	<0.50
E	14
X	<0.50
MTBE	**12**
PCBs	--
Lead	**180**
Zinc	**1,700**
Nickel	**2,100**
Chromium	**1,300**
Cadmium	<50

LEGEND:

- PROPERTY LINE
- MW-1 MONITORING WELL
- B-1 BORING LOCATION (APPROXIMATE)
- UST UNDERGROUND STORAGE TANK

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
TPH-MO = TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
MTBE = METHYL TERTIARY BUTYL ETHER
PCBS = POLYCHLORINATED BIPHENYSL (ALL AROCLORS)
BOLD = EXCEEDING RESPECTIVE ESL
-- = NOT ANALYZED

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, AT A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. ALL RESULTS ARE REPORTED IN MICROGRAMS PER LITER.
4. TPH-DRO AND TPH-MO RESULTS WERE ANALYZED WITH SILICA GEL CLEAN-UP.

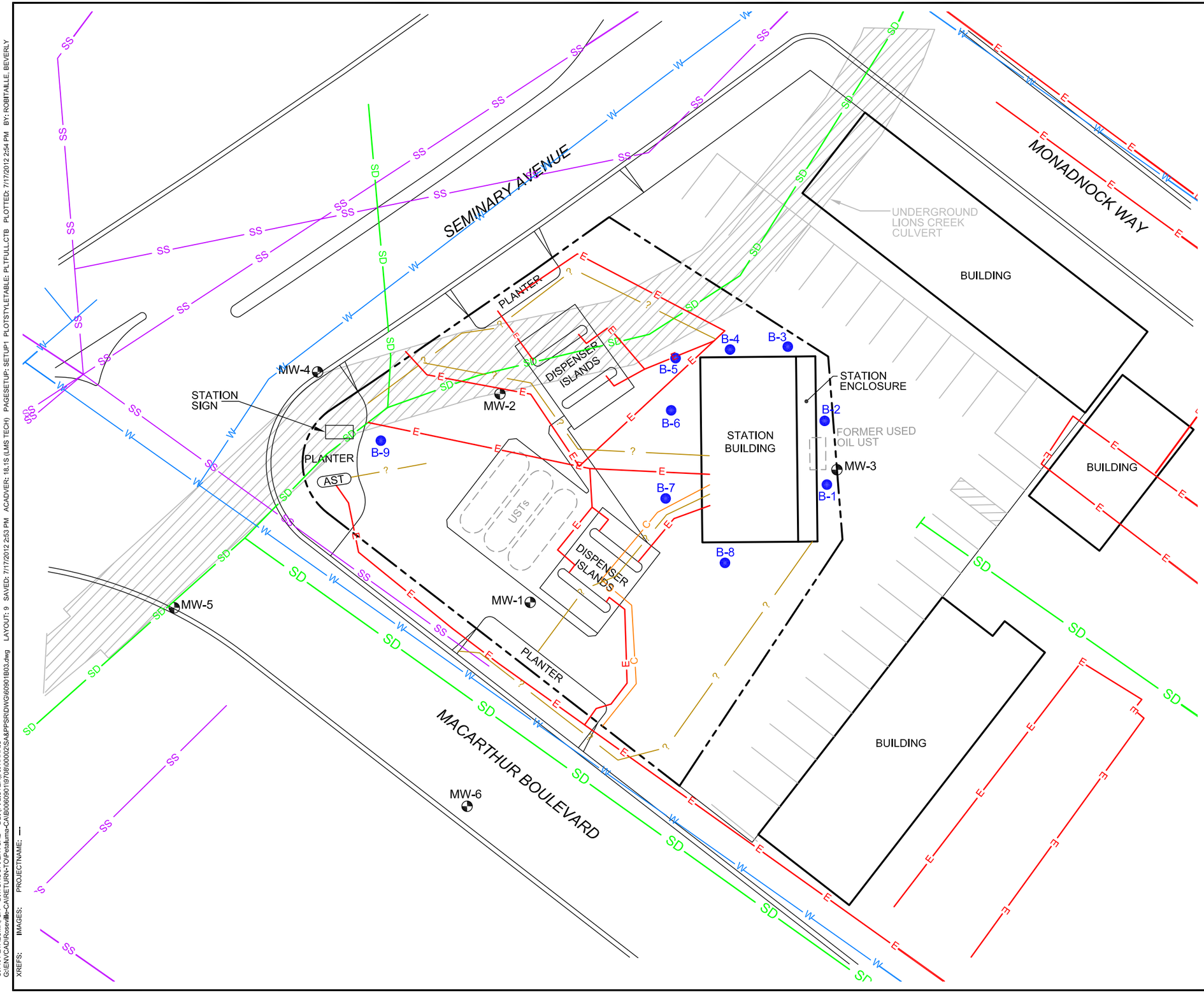
0 30' 60'
GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

GRAB GROUNDWATER CONCENTRATION DISTRIBUTION MAP

ARCADIS

FIGURE
8



LEGEND:

- PROPERTY LINE
- MW-1 — MONITORING WELL
- B-1 — BORING LOCATION (APPROXIMATE)
- UST — UNDERGROUND STORAGE TANK
- AST — ABOVEGROUND STORAGE TANK
- W — WATER LINE
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- E — ELECTRICAL LINE
- C — COMMUNICATIONS LINE
- ? — UNIDENTIFIED LINE

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, AT A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

SUBSURFACE UTILITY MAP

ARCADIS

FIGURE 9

CITY: PETALUMA, CA DIV/GROUP: ENVCAD DB: (P. LISTER), J. HARRIS
G:\ENVCAD\Roseville-CA\RETURN-TO\Petaluma-CA\B00609011\9708\00002\SA&PPSR\DWG\609011B03.dwg LAYOUT: 9 SAVED: 7/17/2012 2:53 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/17/2012 2:54 PM BY: ROBITAILLE, BEVERLY
XREFS: IMAGES: PROJECTNAME: ---

LEGEND:

- SITE LOCATION
- MONITORING WELL
- CAT WELL
- IRRIGATION WELL
- TEST WELL
- UNKNOWN
- ABANDONED WELL
- QUARTER MILE RADIUS

AREA LOCATION

Notes:

Aerial photography obtained from ESRI Inc, Arc GIS Online/Bing Maps

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
FORMER CHEVRON SERVICE STATION 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA
SITE ASSESSMENT AND PREFERENTIAL PATHWAY SURVEY REPORT

WELL SURVEY

ARCADIS

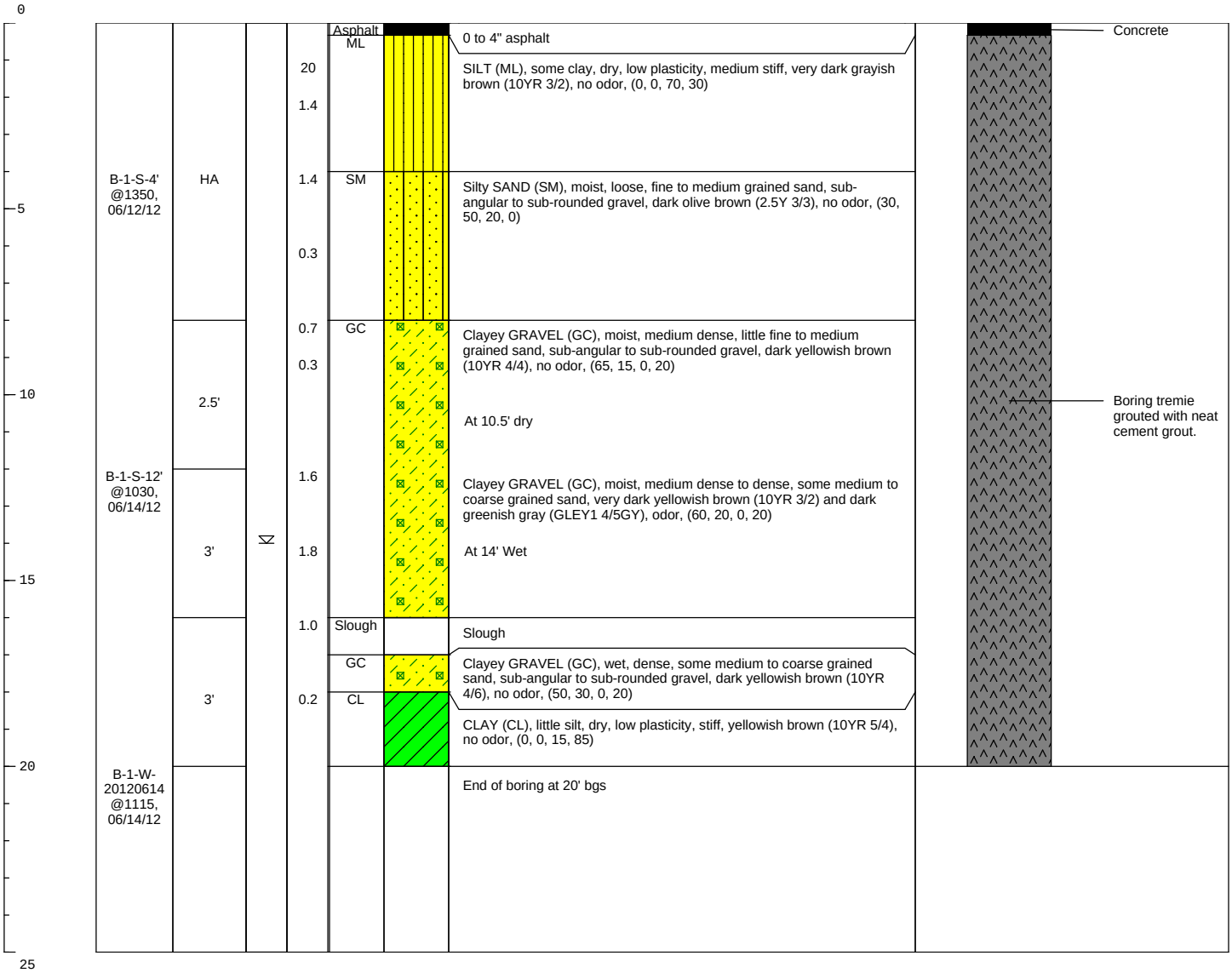
FIGURE
10

CITY: SAN FRANCISCO DIV/GROUP: ENV/IM DB: MESTIFANOS LD: PIC: PM: TM: TR:
PROJECT #:B0060901.9708.00002
PATH: Q:\Chevron\SiteID9-9708\mxd\WaterSupplyWells.mxd 7/18/2012 10:32:52 AM

Attachment 1

Boring Logs

Date Start/Finish: 06/12/2012-06/14/2012	**Latitude:** NA	**Well ID:** **B-1**	
Drilling Company: Cascade Drilling, LP	**Longitude:** NA	**Client:**	Chevron Environmental Management Company
Drilling Method: Geoprobe	**Casing Elevation:** NA		
Rig Type: Geoprobe	**Total Depth:** 20 ft bgs	**Location:**	CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA
Sampling Method: Acetate Sleeve	**Boring Diameter:** 2.25 inch		
	Logged By: Loretta Kwong		
	Reviewed By: Melissa Blanchette, PG	**Project Number:** B0060901.9708.00002	



Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-1-W-20120614) at 1115 on 06/14/2012.

Date Start/Finish: 06/14/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 20 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-2** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	

DEPTH	Lab Sample	Recovery (feet)	Groundwater	PID Headspace (ppm)	USCS Code	Geologic Column	Lithologic Description	Well Construction
0					Asphalt		Asphalt	Concrete
				1.8	ML		SILT (ML) with some clay, dry, low plasticity, medium stiff, trace fine grained sand, little sub-angular to sub-rounded gravel, very dark grayish brown (10YR 2/2), no odor, (15, 5, 60, 20)	
		HA		0.6			Trace gravel, (5, 10, 75, 20)	
5	B-2-S-6' @1145, 06/14/12			0.4			Sandy SILT (ML), little clay, dry, low plasticity, medium stiff, fine grained sand, very dark grayish brown (10YR 3/2), no odor, (0, 25, 60, 15)	
				0.6	GC		Clayey GRAVEL (GC), dry, dense, medium coarse grained sand, moderate staining, very dark grayish brown (10YR 3/2) and very dark greenish gray (GLEY1 5/6Y), odor, (60, 20, 0, 20)	
		4'		1.3				Boring tremie grouted with neat cement grout.
10	B-2-S-12' @1400, 06/14/12			9.4				
		4'	▽	6.6			At 14' Wet	
15				0.3	ML		SILT (ML), some clay, dry, low plasticity, stiff, yellowish brown (10YR 5/4), no odor, (0, 0, 60, 40)	
		4'		0.1				
				0.2			Sandy SILT (ML), dry, slight plasticity, medium stiff, yellowish brown (10YR 5/4), no odor, (0, 30, 70, 0)	
20	B-2-W-20120614 @1630, 06/15/12						End of boring at 20' bgs	
25								

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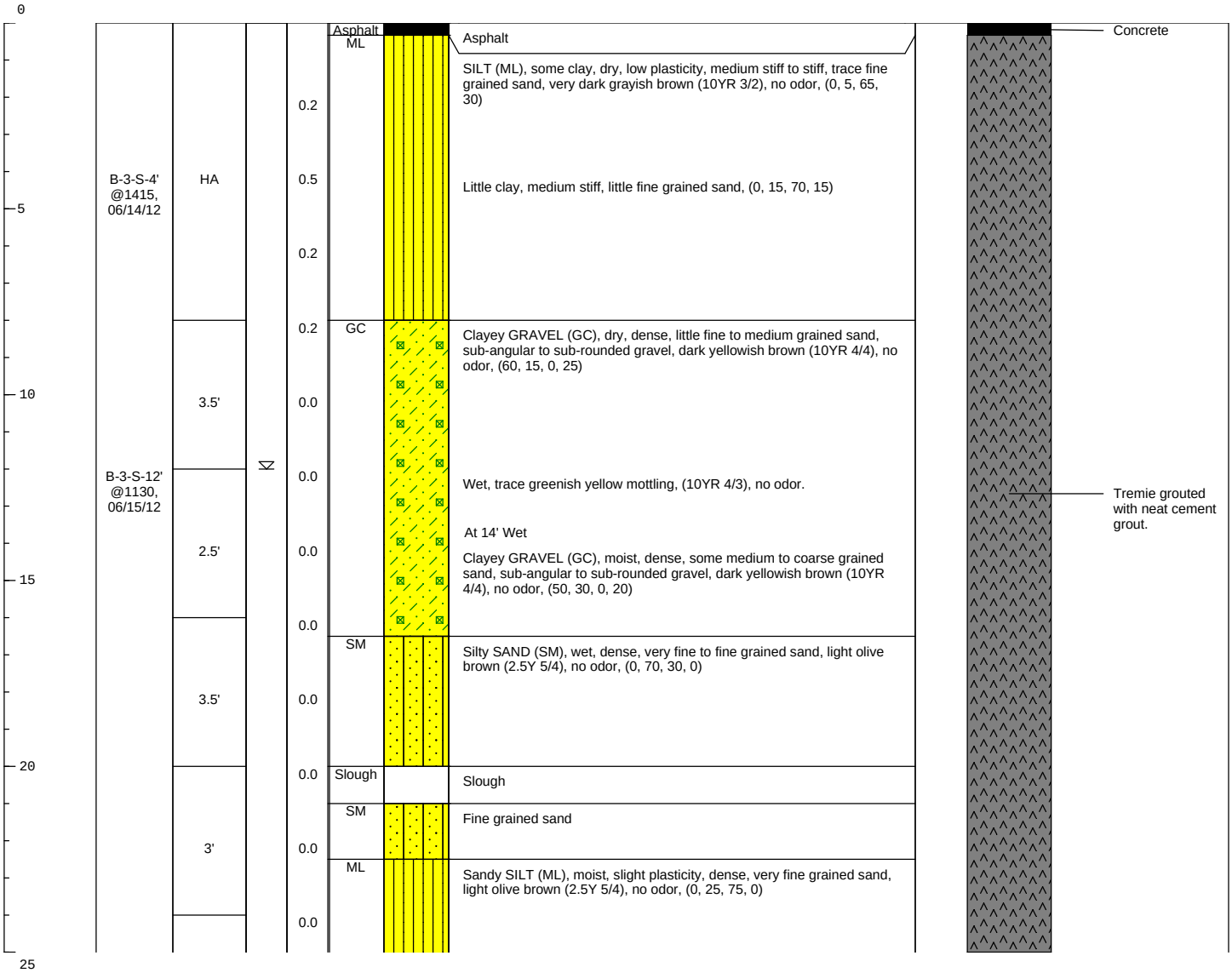
Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-2-W-20120615) at 1630 on 06/15/2012.

Date Start/Finish: 06/12/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 30 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** B-3 **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	



Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-3-W-20120615) at 1525 on 06/15/2012.

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Date Start/Finish: 06/12/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 30 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-3** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002

DEPTH	Lab Sample	Recovery (feet)	Groundwater	PID Headspace (ppm)	USCS Code	Geologic Column	Lithologic Description	Well Construction
25		2'		0.0			Sandy SILT (ML), moist, low plasticity, stiff, fine grained sand, light olive brown (2.5Y 5/4) and olive gray (5Y 5/2), no odor, (0, 30, 70, 0)	Tremie grouted with neat cement grout.
		2'		0.0			Olive gray (5Y 5/2)	
		2'		0.0			Olive gray (5Y 5/2), (0, 45, 55, 0)	
30	B-3-W-20120615 @1525, 06/15/12						End of boring at 30' bgs	
35								
40								
45								
50								

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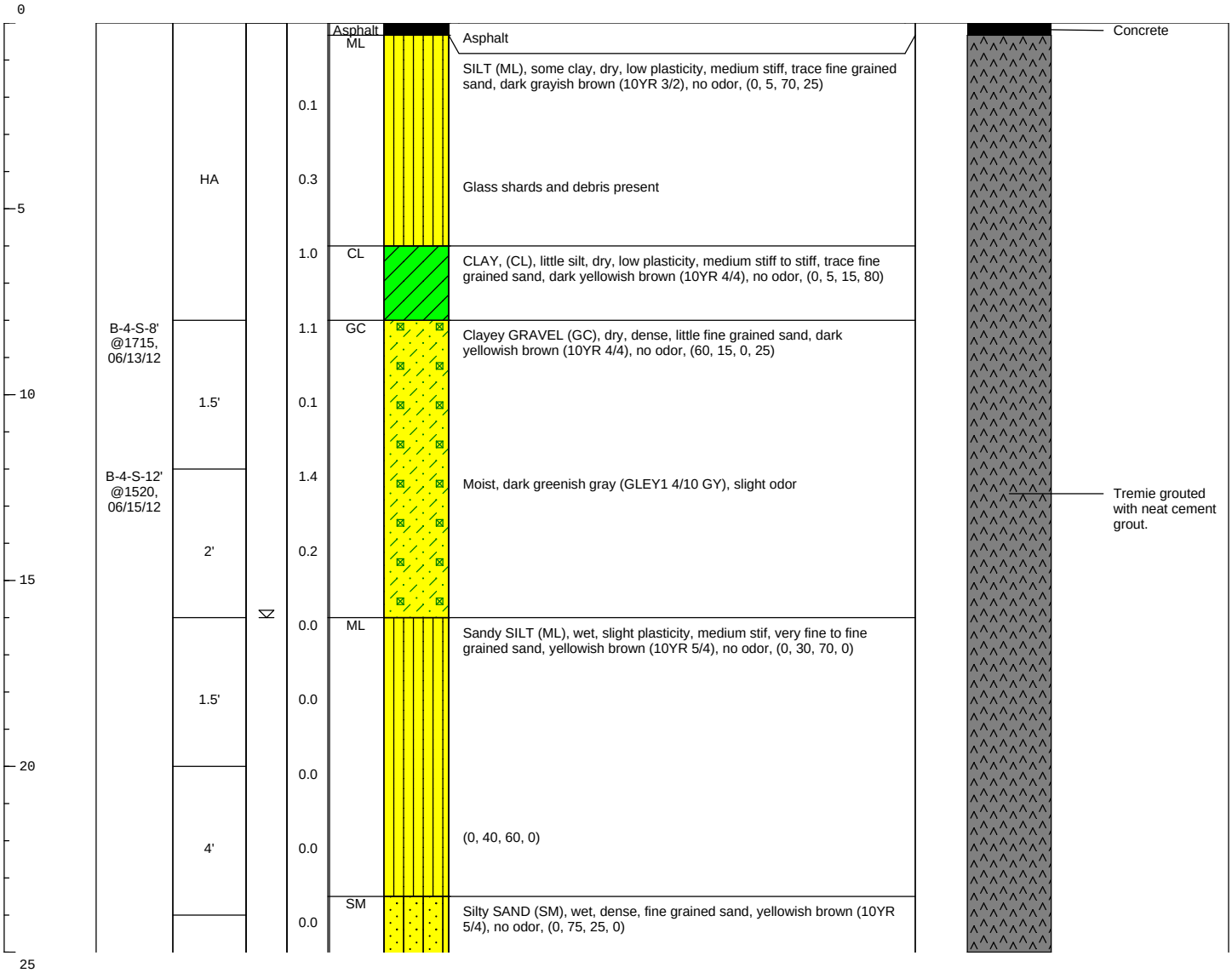
Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-3-W-20120615) at 1525 on 06/15/2012.

Date Start/Finish: 06/13/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 30 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-4** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	

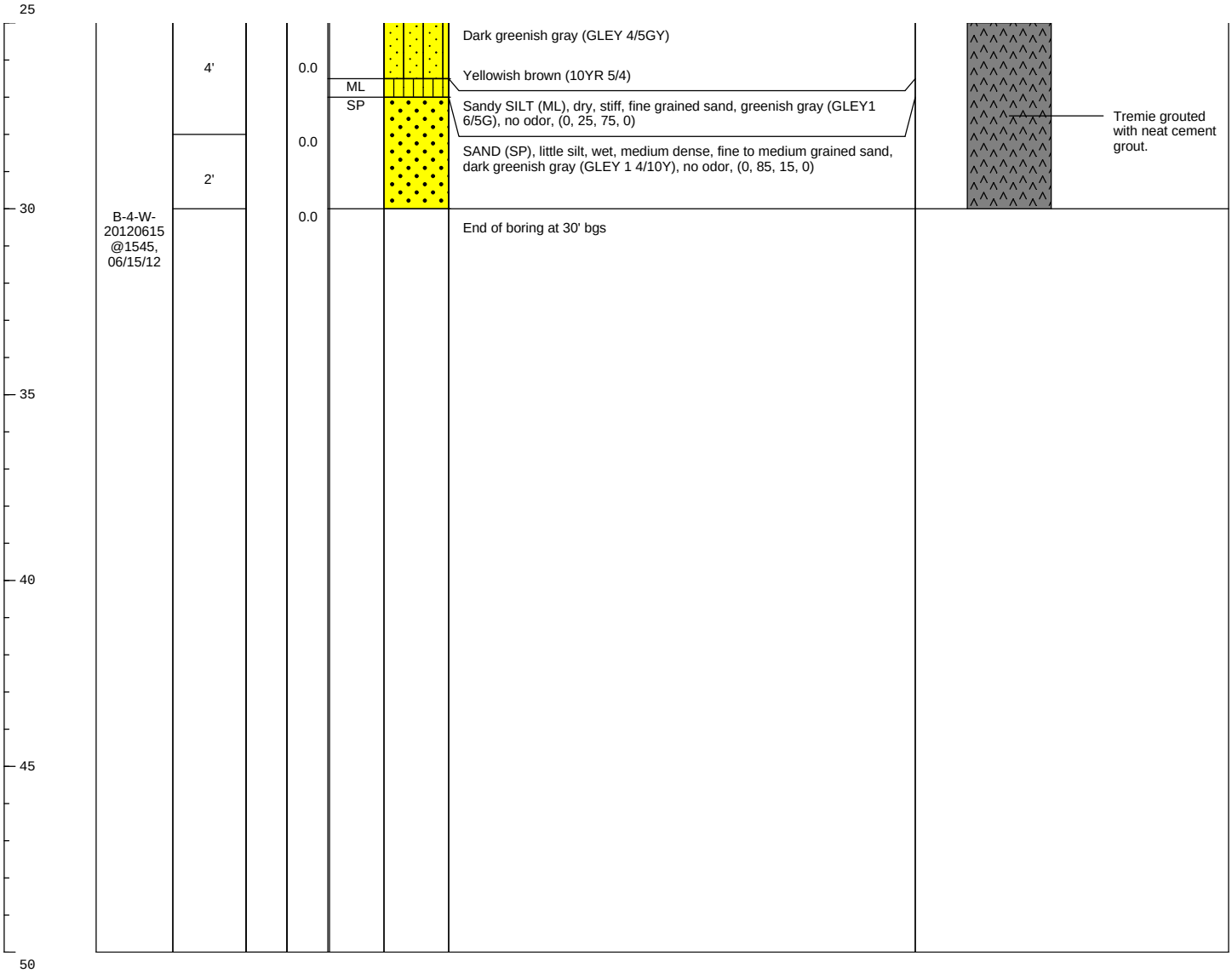


Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-4-W-20120615) at 1545 on 06/15/2012.

Date Start/Finish: 06/13/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 30 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-4** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	



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Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-4-W-20120615) at 1545 on 06/15/2012.

Date Start/Finish: 06/13/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 5.5 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-6** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002

DEPTH	Lab Sample	Recovery (feet)	Groundwater	PID Headspace (ppm)	USCS Code	Geologic Column	Lithologic Description	Well Construction
0					Asphalt		Asphalt	Concrete
				0.4	ML		SILT (ML), some clay, dry, low plasticity, medium stiff, trace fine grained sand, very dark grayish brown (10YR 3/2), no odor, (0, 5, 65, 30)	
		HA						Boring backfilled with neat cement grout.
5	B-6-S-4' @1500, 06/13/12			1.2	CL		CLAY (CL), little silt, dry, medium plasticity, medium stiff, little fine grained sand, dark yellowish brown (10YR 4/4), no odor, (0, 10, 15, 75)	
							End of boring and refusal at 5.5' bgs	
10								
15								
20								
25								

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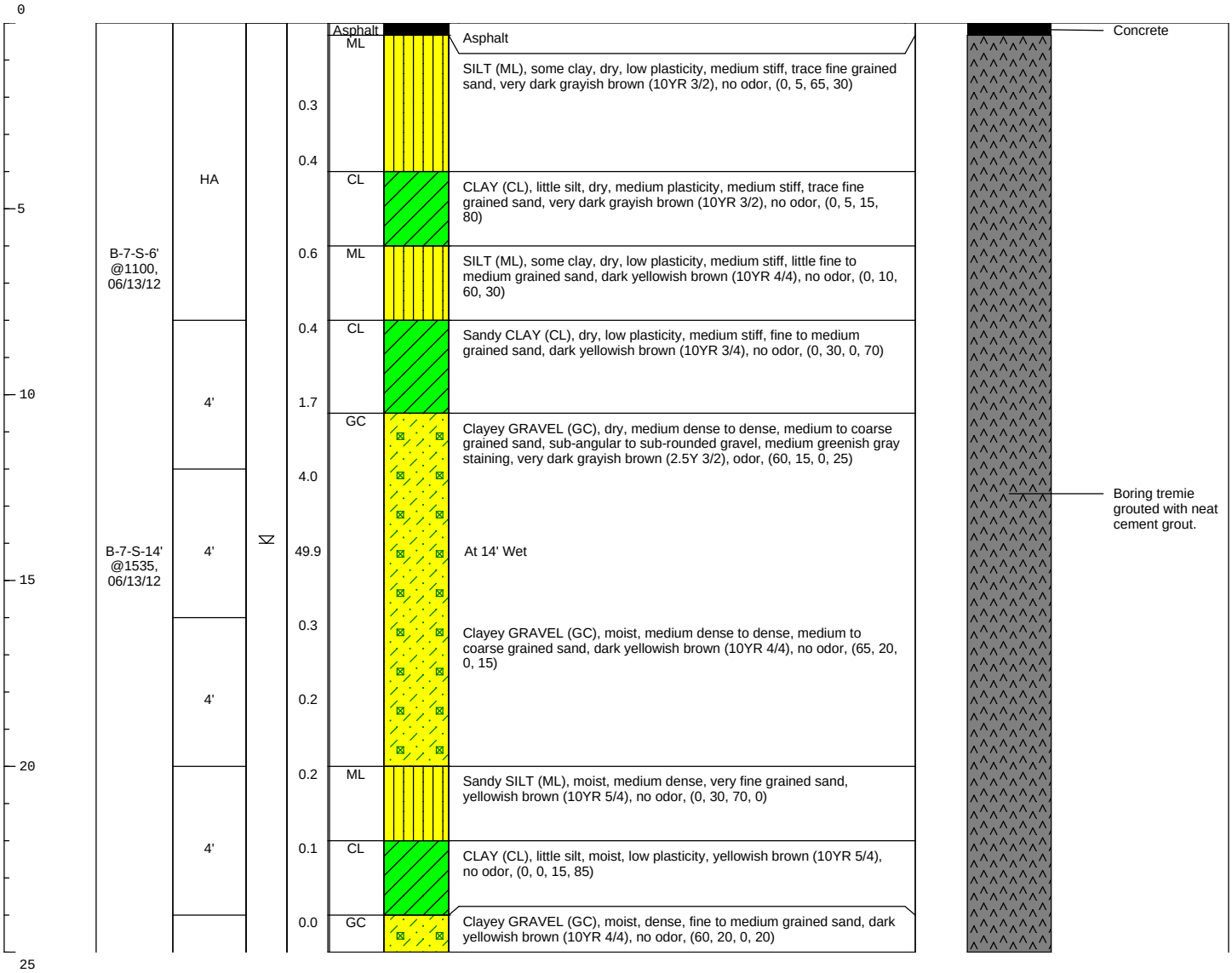
Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger to 5' bgs.
Air knife to 5.5' bgs where refusal was met.

Date Start/Finish: 06/13/2012-06/15/2012	**Latitude:** NA	**Well ID:** **B-7**	
Drilling Company: Cascade Drilling, LP	**Longitude:** NA	**Client:** Chevron Environmental Management Company	
Drilling Method: Geoprobe	**Casing Elevation:** NA		
Rig Type: Geoprobe	**Total Depth:** 26 ft bgs	**Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA	
Sampling Method: Acetate Sleeve	**Boring Diameter:** 2.25 inch		
	Logged By: Loretta Kwong		
	Reviewed By: Melissa Blanchette, PG	**Project Number:** B0060901.9708.00002	



Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-7-W-20120615) at 1217 on 06/15/2012.

Date Start/Finish: 06/13/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 26 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-7** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	

DEPTH	Lab Sample	Recovery (feet)	Groundwater	PID Headspace (ppm)	USCS Code	Geologic Column	Lithologic Description	Well Construction
25		2'			ML		Sandy SILT (ML), moist, medium dense, very fine grained sand, yellowish brown (10YR 5/4), no odor, (0, 30, 70, 0)	Boring tremie grouted with neat cement grout.
	B-7-W-20120615 @1217, 06/15/2012						End of boring at 26' bgs	
30								
35								
40								
45								
50								

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Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-7-W-20120615) at 1217 on 06/15/2012.

Date Start/Finish: 06/14/2012-06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 22 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-8** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002	

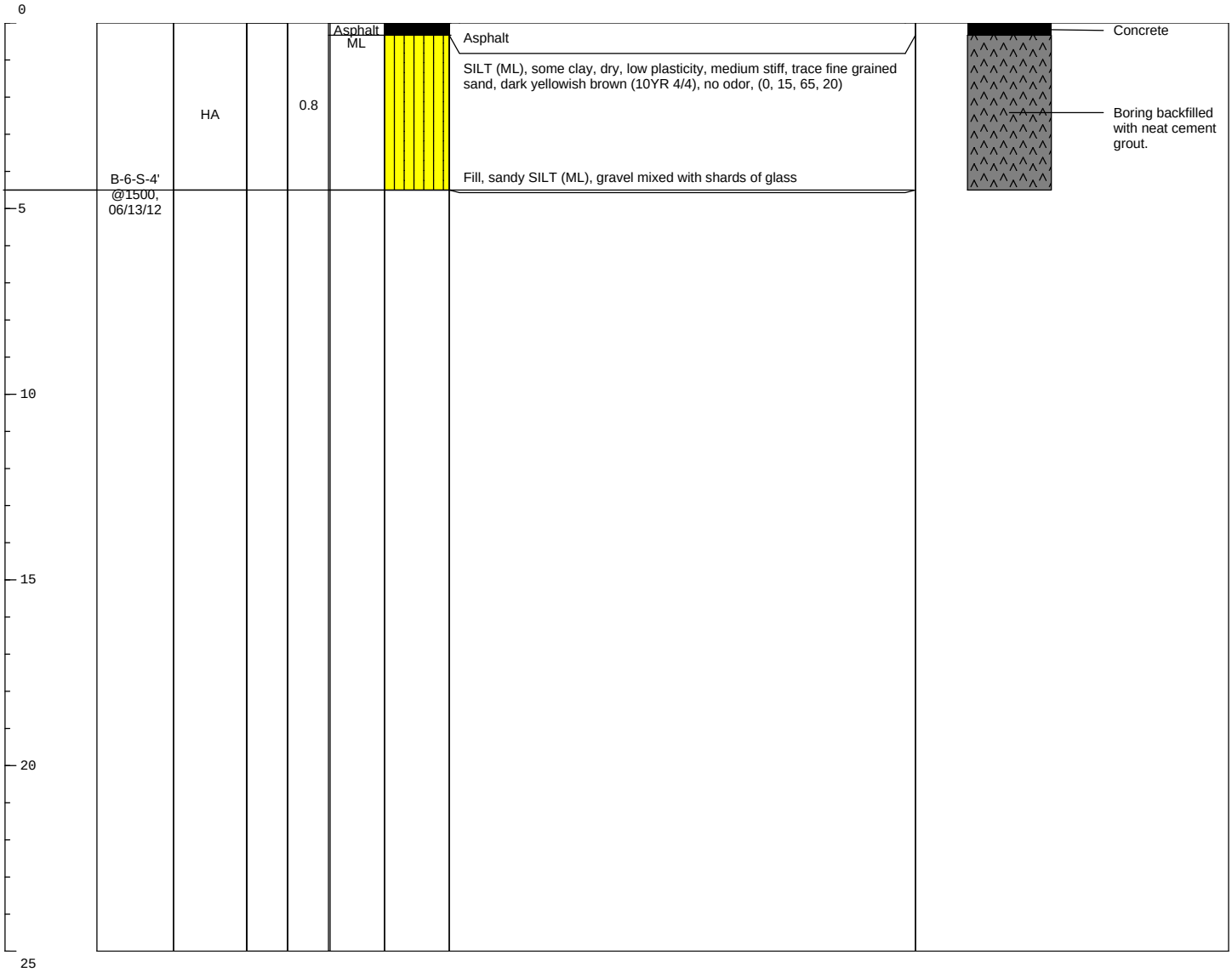
DEPTH	Lab Sample	Recovery (feet)	Groundwater	PID Headspace (ppm)	USCS Code	Geologic Column	Lithologic Description	Well Construction
0					Asphalt		Asphalt	Concrete
					ML		SILT (ML), some clay, dry, low plasticity, medium stiff to stiff, little fine grained sand, dark gray (10YR 3/1), no odor, (0, 15, 60, 25)	
				2.3				
		HA		2.6				
5								
	B-8-S-6' @1640, 06/14/12			2.7			SILT (ML), little clay, dry, slight plasticity, medium stiff to stiff, fine grained sand, dark yellowish brown (10YR 4/4), no odor, (0, 15, 70, 15)	
				2.7	GC		Clayey GRAVEL (GC), dry, dense, medium to coarse grained sand, very dark grayish brown (10YR 3/2), no odor	
10		4'		0.0				
				1.2			Very dark greenish gray (GLEY1 3/5GY), mottling/staining	Boring tremie grouted with neat cement grout.
	B-8-S-14' @1635, 06/14/12	2'	▽	2.3			Odor	
15				0.1			Wet, dark yellowish brown (10YR 4/4), no odor	
		2.5'		0.0	CL		CLAY (CL), little silt, moist, low plasticity, hard, dark yellowish brown (10YR 4/4), no odor, (0, 0, 15, 85)	
20				0.1				
		2'						
	B-8-W-20120615 @1656, 06/15/2012						End of boring at 22' bgs	
25								

Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger or airknife to 8' 1" bgs.
Direct push to total depth.

Collected grab groundwater sample (B-8-W-20120615) at 1656 on 06/15/2012.

Date Start/Finish: 06/14/2012- 06/15/2012 **Drilling Company:** Cascade Drilling, LP **Drilling Method:** Geoprobe **Rig Type:** Geoprobe **Sampling Method:** Acetate Sleeve	**Latitude:** NA **Longitude:** NA **Casing Elevation:** NA **Total Depth:** 4.5 ft bgs **Boring Diameter:** 2.25 inch **Logged By:** Loretta Kwong **Reviewed By:** Melissa Blanchette, PG	**Well ID:** **B-9** **Client:** Chevron Environmental Management Company **Location:** CVX MT 9-9708 5910 MacArthur Blvd. Oakland CA **Project Number:** B0060901.9708.00002



Remarks: AMSL = Above Mean Sea Level; bgs = below ground surface; ft = feet; HA = hand auger; NA = Not Applicable/Available; PID = Photoionization Detector; ppm = parts per million

Hand auger to 4.5' bgs where refusal was met. Attempted at 3 locations.

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Attachment 2

Soil and Groundwater Laboratory Analytical Reports with Chain-of-Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-14911-1
Client Project/Site: Chevron - 9-9708
Revision: 1

For:
ARCADIS U.S., Inc.
3240 El Camino Real
Suite 200
Irvine, California 92602

Attn: Toni DeMayo

Authorized for release by:
7/13/2012 3:59:47 PM

Sushmitha Reddy
Project Manager I
sushmitha.reddy@testamericainc.com

Table of Contents

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-14911-1	B-1-S-4'	Solid	06/12/12 13:50	06/15/12 10:30
440-14911-2	B-7-S-6'	Solid	06/13/12 11:00	06/15/12 10:30
440-14911-3	B-6-S-4'	Solid	06/13/12 15:00	06/15/12 10:30
440-14911-4	B-7-S-14'	Solid	06/13/12 15:35	06/15/12 10:30
440-14911-5	B-4-S-8'	Solid	06/13/12 17:15	06/15/12 10:30
440-14911-6	B-1-S-12'	Solid	06/14/12 10:30	06/15/12 10:30
440-14911-7	B-2-S-2'	Solid	06/14/12 11:45	06/15/12 10:30
440-14911-8	B-2-S-12'	Solid	06/14/12 14:00	06/15/12 10:30
440-14911-9	B-3-S-4'	Solid	06/14/12 14:15	06/15/12 10:30
440-14911-10	B-8-S-14'	Solid	06/14/12 16:35	06/15/12 10:30
440-14911-11	B-8-S-6'	Solid	06/14/12 16:40	06/15/12 10:30

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Job ID: 440-14911-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-14911-1

Comments
The report is reissued with MTBE data.

Receipt
The samples were received on 6/15/2012 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

Except:

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): B-9-2' (440-14911-12), B-9-4' (440-14911-13) These 2 samples were received in Plastic Zip Top bags. Samples did not have sampling date or time on the containers. The samples were logged in with 6/14/12 as a sampling date and 12:01AM as the sampling time. Per client's request, the samples were placed on hold.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for Carbon Tetrachloride associated with batch 34151 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 34151 exceeded control limits for the following analytes:Carbon Tetrachloride . These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have beeen reported.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: B-7-S-14' (440-14911-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. High hydrocarbon.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries do not provide useful information: B-1-S-12' (440-14911-6), B-2-S-12' (440-14911-8).

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: B-1-S-4' (440-14911-1), B-2-S-2' (440-14911-7), B-3-S-4' (440-14911-9), B-6-S-4' (440-14911-3), B-7-S-14' (440-14911-4), B-7-S-6' (440-14911-2), Sewer Sludge (0800) -1333 (440-14954-1). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 33756 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: B-1-S-12' (440-14911-6), B-2-S-12' (440-14911-8), B-8-S-14' (440-14911-10), B-8-S-6' (440-14911-11). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
Method(s) CA LUFT: The following sample(s) was diluted due to the nature of the sample matrix: B-2-S-12' (440-14911-8), B-7-S-14' (440-14911-4), B-8-S-14' (440-14911-10). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Job ID: 440-14911-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

VOA Prep

No analytical or quality issues were noted.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-1-S-4'
Date Collected: 06/12/12 13:50
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 15:46	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 15:46	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 15:46	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 15:46	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 15:46	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 15:46	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 15:46	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 15:46	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 15:46	1
Benzene	ND		2.0		ug/Kg			06/21/12 15:46	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
Bromoform	ND		5.0		ug/Kg			06/21/12 15:46	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 15:46	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 15:46	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 15:46	1
Chloroform	ND		2.0		ug/Kg			06/21/12 15:46	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 15:46	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 15:46	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 15:46	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 15:46	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 15:46	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 15:46	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 15:46	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 15:46	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 15:46	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 15:46	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 15:46	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
Styrene	ND		2.0		ug/Kg			06/21/12 15:46	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 15:46	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 15:46	1
Toluene	ND		2.0		ug/Kg			06/21/12 15:46	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 15:46	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 15:46	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-1-S-4'
Date Collected: 06/12/12 13:50
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 15:46	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 15:46	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 15:46	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 15:46	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 15:46	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 15:46	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 15:46	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 15:46	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/21/12 15:46*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*06/21/12 15:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 125*		*06/21/12 15:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 04:55	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 04:55	1
C13-C40	**5.6**		5.0		mg/Kg		06/19/12 11:08	06/20/12 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*06/19/12 11:08*	*06/20/12 04:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:39	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:39	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*06/20/12 11:00*	*06/21/12 07:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*06/19/12 09:08*	*06/20/12 20:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		4.0		mg/Kg		06/19/12 09:00	06/20/12 13:56	10
Zinc	**93**		10		mg/Kg		06/19/12 09:00	06/20/12 13:56	10
Nickel	**310**		4.0		mg/Kg		06/19/12 09:00	06/20/12 13:56	10
Chromium	**170**		2.0		mg/Kg		06/19/12 09:00	06/20/12 13:56	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/20/12 13:56	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-7-S-6'
Date Collected: 06/13/12 11:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 16:16	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 16:16	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:16	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/21/12 16:16	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 16:16	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:16	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:16	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 16:16	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 16:16	1
Benzene	ND		2.0		ug/Kg			06/21/12 16:16	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
Bromoform	ND		5.0		ug/Kg			06/21/12 16:16	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 16:16	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 16:16	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 16:16	1
Chloroform	ND		2.0		ug/Kg			06/21/12 16:16	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 16:16	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 16:16	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:16	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 16:16	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 16:16	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 16:16	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 16:16	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 16:16	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 16:16	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 16:16	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 16:16	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
Styrene	ND		2.0		ug/Kg			06/21/12 16:16	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:16	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 16:16	1
Toluene	ND		2.0		ug/Kg			06/21/12 16:16	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 16:16	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:16	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-7-S-6'
Date Collected: 06/13/12 11:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 16:16	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 16:16	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 16:16	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 16:16	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 16:16	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 16:16	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 16:16	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 16:16	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/21/12 16:16*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*06/21/12 16:16*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 125*		*06/21/12 16:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 05:30	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 05:30	1
C13-C40	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*83*		*40 - 140*	*06/19/12 11:08*	*06/20/12 05:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 08:19	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 08:19	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*40 - 140*	*06/20/12 11:00*	*06/21/12 08:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*06/19/12 09:08*	*06/20/12 20:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		4.0		mg/Kg		06/19/12 09:00	06/20/12 13:58	10
Zinc	**96**		10		mg/Kg		06/19/12 09:00	06/20/12 13:58	10
Nickel	**200**		4.0		mg/Kg		06/19/12 09:00	06/20/12 13:58	10
Chromium	**81**		2.0		mg/Kg		06/19/12 09:00	06/20/12 13:58	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/20/12 13:58	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-6-S-4'
Date Collected: 06/13/12 15:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 16:46	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 16:46	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:46	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 16:46	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 16:46	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:46	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 16:46	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 16:46	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 16:46	1
Benzene	ND		2.0		ug/Kg			06/21/12 16:46	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
Bromoform	ND		5.0		ug/Kg			06/21/12 16:46	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 16:46	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 16:46	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 16:46	1
Chloroform	ND		2.0		ug/Kg			06/21/12 16:46	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 16:46	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 16:46	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:46	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 16:46	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 16:46	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 16:46	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 16:46	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 16:46	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 16:46	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 16:46	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 16:46	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
Styrene	ND		2.0		ug/Kg			06/21/12 16:46	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 16:46	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 16:46	1
Toluene	ND		2.0		ug/Kg			06/21/12 16:46	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 16:46	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 16:46	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-6-S-4'
Date Collected: 06/13/12 15:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 16:46	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 16:46	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 16:46	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 16:46	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 16:46	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 16:46	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 16:46	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 16:46	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/21/12 16:46*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*06/21/12 16:46*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 125*		*06/21/12 16:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 06:12	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 06:12	1
C13-C40	**12**		5.0		mg/Kg		06/19/12 11:08	06/20/12 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*86*		*40 - 140*	*06/19/12 11:08*	*06/20/12 06:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**8.8**		5.0		mg/Kg		06/20/12 11:00	06/21/12 09:01	1
DRO (C13-C28)	**5.9**		5.0		mg/Kg		06/20/12 11:00	06/21/12 09:01	1
C13-C40	**16**		5.0		mg/Kg		06/20/12 11:00	06/21/12 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*06/20/12 11:00*	*06/21/12 09:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*06/19/12 09:08*	*06/20/12 21:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		4.0		mg/Kg		06/19/12 09:00	06/20/12 14:10	10
Zinc	**96**		10		mg/Kg		06/19/12 09:00	06/20/12 14:10	10
Nickel	**220**		4.0		mg/Kg		06/19/12 09:00	06/20/12 14:10	10
Chromium	**99**		2.0		mg/Kg		06/19/12 09:00	06/20/12 14:10	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/20/12 14:10	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-7-S-14'
Date Collected: 06/13/12 15:35
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		24		ug/Kg			06/21/12 17:17	1
1,1,1-Trichloroethane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,1,2,2-Tetrachloroethane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,1,2-Trichloroethane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,1-Dichloroethane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,1-Dichloroethene	ND		24		ug/Kg			06/21/12 17:17	1
1,1-Dichloropropene	ND		9.7		ug/Kg			06/21/12 17:17	1
1,2,3-Trichlorobenzene	ND		24		ug/Kg			06/21/12 17:17	1
1,2,3-Trichloropropane	ND		49		ug/Kg			06/21/12 17:17	1
1,2,4-Trichlorobenzene	ND		24		ug/Kg			06/21/12 17:17	1
1,2,4-Trimethylbenzene	**75**		9.7		ug/Kg			06/21/12 17:17	1
1,2-Dibromo-3-Chloropropane	ND		24		ug/Kg			06/21/12 17:17	1
1,2-Dichlorobenzene	ND		9.7		ug/Kg			06/21/12 17:17	1
1,2-Dichloroethane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,2-Dichloropropane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,3,5-Trimethylbenzene	**56**		9.7		ug/Kg			06/21/12 17:17	1
1,3-Dichlorobenzene	ND		9.7		ug/Kg			06/21/12 17:17	1
1,3-Dichloropropane	ND		9.7		ug/Kg			06/21/12 17:17	1
1,4-Dichlorobenzene	ND		9.7		ug/Kg			06/21/12 17:17	1
2,2-Dichloropropane	ND		9.7		ug/Kg			06/21/12 17:17	1
2-Chlorotoluene	ND		24		ug/Kg			06/21/12 17:17	1
4-Chlorotoluene	ND		24		ug/Kg			06/21/12 17:17	1
Benzene	ND		9.7		ug/Kg			06/21/12 17:17	1
Bromobenzene	ND		24		ug/Kg			06/21/12 17:17	1
Bromoform	ND		24		ug/Kg			06/21/12 17:17	1
Bromomethane	ND		24		ug/Kg			06/21/12 17:17	1
Carbon tetrachloride	ND		24		ug/Kg			06/21/12 17:17	1
Chlorobenzene	ND		9.7		ug/Kg			06/21/12 17:17	1
Chloroethane	ND		24		ug/Kg			06/21/12 17:17	1
Chloroform	ND		9.7		ug/Kg			06/21/12 17:17	1
Chloromethane	ND		24		ug/Kg			06/21/12 17:17	1
cis-1,2-Dichloroethene	ND		9.7		ug/Kg			06/21/12 17:17	1
cis-1,3-Dichloropropene	ND		9.7		ug/Kg			06/21/12 17:17	1
Dibromomethane	ND		9.7		ug/Kg			06/21/12 17:17	1
Dichlorodifluoromethane	ND		24		ug/Kg			06/21/12 17:17	1
Ethylbenzene	**350**		9.7		ug/Kg			06/21/12 17:17	1
Hexachlorobutadiene	ND		24		ug/Kg			06/21/12 17:17	1
Isopropylbenzene	**94**		9.7		ug/Kg			06/21/12 17:17	1
m,p-Xylene	ND		9.7		ug/Kg			06/21/12 17:17	1
Methylene Chloride	ND		97		ug/Kg			06/21/12 17:17	1
Naphthalene	**200**		24		ug/Kg			06/21/12 17:17	1
n-Butylbenzene	**210**		24		ug/Kg			06/21/12 17:17	1
N-Propylbenzene	**340**		9.7		ug/Kg			06/21/12 17:17	1
o-Xylene	ND		9.7		ug/Kg			06/21/12 17:17	1
sec-Butylbenzene	**56**		24		ug/Kg			06/21/12 17:17	1
Styrene	ND		9.7		ug/Kg			06/21/12 17:17	1
tert-Butylbenzene	**200**		24		ug/Kg			06/21/12 17:17	1
Tetrachloroethene	ND		9.7		ug/Kg			06/21/12 17:17	1
Toluene	ND		9.7		ug/Kg			06/21/12 17:17	1
trans-1,2-Dichloroethene	ND		9.7		ug/Kg			06/21/12 17:17	1
trans-1,3-Dichloropropene	ND		9.7		ug/Kg			06/21/12 17:17	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-7-S-14'
Date Collected: 06/13/12 15:35
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		9.7		ug/Kg			06/21/12 17:17	1
Trichlorofluoromethane	ND		24		ug/Kg			06/21/12 17:17	1
Vinyl chloride	ND		24		ug/Kg			06/21/12 17:17	1
1,2-Dibromoethane (EDB)	ND		9.7		ug/Kg			06/21/12 17:17	1
Bromochloromethane	ND		24		ug/Kg			06/21/12 17:17	1
Bromodichloromethane	ND		9.7		ug/Kg			06/21/12 17:17	1
Dibromochloromethane	ND		9.7		ug/Kg			06/21/12 17:17	1
p-Isopropyltoluene	**38**		9.7		ug/Kg			06/21/12 17:17	1
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/Kg			06/21/12 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*06/21/12 17:17*	*1*
4-Bromofluorobenzene (Surr)	*123*	*X*	*80 - 120*		*06/21/12 17:17*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 125*		*06/21/12 17:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		15		mg/Kg		06/19/12 11:08	06/20/12 07:35	1
DRO (C13-C28)	ND		15		mg/Kg		06/19/12 11:08	06/20/12 07:35	1
C13-C40	ND		15		mg/Kg		06/19/12 11:08	06/20/12 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*40 - 140*	*06/19/12 11:08*	*06/20/12 07:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		15		mg/Kg		06/20/12 11:00	06/21/12 11:04	1
DRO (C13-C28)	ND		15		mg/Kg		06/20/12 11:00	06/21/12 11:04	1
C13-C40	ND		15		mg/Kg		06/20/12 11:00	06/21/12 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*40 - 140*	*06/20/12 11:00*	*06/21/12 11:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*06/19/12 09:08*	*06/20/12 21:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		4.0		mg/Kg		06/19/12 09:00	06/20/12 14:13	10
Zinc	**62**		10		mg/Kg		06/19/12 09:00	06/20/12 14:13	10
Nickel	**96**		4.0		mg/Kg		06/19/12 09:00	06/20/12 14:13	10
Chromium	**55**		2.0		mg/Kg		06/19/12 09:00	06/20/12 14:13	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/20/12 14:13	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-4-S-8'
Date Collected: 06/13/12 17:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 17:47	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 17:47	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 17:47	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 17:47	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 17:47	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 17:47	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 17:47	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 17:47	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 17:47	1
Benzene	ND		2.0		ug/Kg			06/21/12 17:47	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
Bromoform	ND		5.0		ug/Kg			06/21/12 17:47	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 17:47	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 17:47	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 17:47	1
Chloroform	ND		2.0		ug/Kg			06/21/12 17:47	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 17:47	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 17:47	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 17:47	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 17:47	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 17:47	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 17:47	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 17:47	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 17:47	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 17:47	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 17:47	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 17:47	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
Styrene	ND		2.0		ug/Kg			06/21/12 17:47	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 17:47	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 17:47	1
Toluene	ND		2.0		ug/Kg			06/21/12 17:47	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 17:47	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 17:47	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-4-S-8'
Date Collected: 06/13/12 17:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 17:47	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 17:47	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 17:47	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 17:47	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 17:47	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 17:47	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 17:47	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 17:47	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*06/21/12 17:47*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*06/21/12 17:47*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 125*		*06/21/12 17:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 08:56	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 08:56	1
C13-C40	**5.7**		5.0		mg/Kg		06/19/12 11:08	06/20/12 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*40 - 140*	*06/19/12 11:08*	*06/20/12 08:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 11:46	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 11:46	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*06/20/12 11:00*	*06/21/12 11:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*06/19/12 09:08*	*06/20/12 21:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		2.0		mg/Kg		06/19/12 09:00	06/20/12 13:38	5
Zinc	**38**		4.9		mg/Kg		06/19/12 09:00	06/20/12 13:38	5
Nickel	**30**		2.0		mg/Kg		06/19/12 09:00	06/20/12 13:38	5
Chromium	**34**		0.98		mg/Kg		06/19/12 09:00	06/20/12 13:38	5
Cadmium	**0.49**		0.49		mg/Kg		06/19/12 09:00	06/20/12 13:38	5

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-1-S-12'
Date Collected: 06/14/12 10:30
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 18:18	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 18:18	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:18	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 18:18	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 18:18	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:18	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:18	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 18:18	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 18:18	1
Benzene	ND		2.0		ug/Kg			06/21/12 18:18	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
Bromoform	ND		5.0		ug/Kg			06/21/12 18:18	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 18:18	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 18:18	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 18:18	1
Chloroform	ND		2.0		ug/Kg			06/21/12 18:18	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 18:18	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 18:18	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:18	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 18:18	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 18:18	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 18:18	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 18:18	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 18:18	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 18:18	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 18:18	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 18:18	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
Styrene	ND		2.0		ug/Kg			06/21/12 18:18	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 18:18	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 18:18	1
Toluene	ND		2.0		ug/Kg			06/21/12 18:18	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 18:18	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:18	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-1-S-12'
Date Collected: 06/14/12 10:30
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 18:18	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 18:18	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 18:18	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 18:18	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 18:18	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 18:18	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 18:18	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 18:18	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/21/12 18:18*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*06/21/12 18:18*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 125*		*06/21/12 18:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**330**		100		mg/Kg		06/19/12 11:08	06/21/12 11:18	20
DRO (C13-C28)	**590**		100		mg/Kg		06/19/12 11:08	06/21/12 11:18	20
C13-C40	**930**		100		mg/Kg		06/19/12 11:08	06/21/12 11:18	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*06/19/12 11:08*	*06/21/12 11:18*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**280**		50		mg/Kg		06/20/12 11:00	06/22/12 13:32	10
DRO (C13-C28)	**500**		50		mg/Kg		06/20/12 11:00	06/22/12 13:32	10
C13-C40	**790**		50		mg/Kg		06/20/12 11:00	06/22/12 13:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*40 - 140*	*06/20/12 11:00*	*06/22/12 13:32*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*06/19/12 09:08*	*06/20/12 21:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:32	10
Zinc	**74**		10		mg/Kg		06/19/12 09:00	06/26/12 14:32	10
Nickel	**120**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:32	10
Chromium	**90**		2.0		mg/Kg		06/19/12 09:00	06/26/12 14:32	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/26/12 14:32	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-2-S-2'
Date Collected: 06/14/12 11:45
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 13:13	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 13:13	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 13:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 13:13	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 13:13	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 13:13	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 13:13	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 13:13	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 13:13	1
Benzene	ND		2.0		ug/Kg			06/21/12 13:13	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
Bromoform	ND		5.0		ug/Kg			06/21/12 13:13	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 13:13	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 13:13	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 13:13	1
Chloroform	ND		2.0		ug/Kg			06/21/12 13:13	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 13:13	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 13:13	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 13:13	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 13:13	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 13:13	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 13:13	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 13:13	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 13:13	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 13:13	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 13:13	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 13:13	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
Styrene	ND		2.0		ug/Kg			06/21/12 13:13	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 13:13	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 13:13	1
Toluene	ND		2.0		ug/Kg			06/21/12 13:13	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 13:13	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 13:13	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-2-S-2'
Date Collected: 06/14/12 11:45
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 13:13	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 13:13	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 13:13	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 13:13	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 13:13	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 13:13	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 13:13	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 13:13	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/21/12 13:13*	*1*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*		*06/21/12 13:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 125*		*06/21/12 13:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 10:17	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 10:17	1
C13-C40	**7.6**		5.0		mg/Kg		06/19/12 11:08	06/20/12 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*06/19/12 11:08*	*06/20/12 10:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 13:10	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 13:10	1
C13-C40	**6.3**		5.0		mg/Kg		06/20/12 11:00	06/21/12 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*79*		*40 - 140*	*06/20/12 11:00*	*06/21/12 13:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*06/19/12 09:08*	*06/20/12 22:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		10		mg/Kg		06/19/12 09:00	06/20/12 13:42	25
Zinc	**97**		25		mg/Kg		06/19/12 09:00	06/20/12 13:42	25
Nickel	**380**		10		mg/Kg		06/19/12 09:00	06/20/12 13:42	25
Chromium	**130**		5.1		mg/Kg		06/19/12 09:00	06/20/12 13:42	25
Cadmium	ND		2.5		mg/Kg		06/19/12 09:00	06/20/12 13:42	25

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-2-S-12'
Date Collected: 06/14/12 14:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 18:48	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 18:48	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:48	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 18:48	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/21/12 18:48	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 18:48	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 18:48	1
1,2-Dichlorobenzene	**2.3**		2.0		ug/Kg			06/21/12 18:48	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:48	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 18:48	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 18:48	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 18:48	1
Benzene	ND		2.0		ug/Kg			06/21/12 18:48	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 18:48	1
Bromoform	ND		5.0		ug/Kg			06/21/12 18:48	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 18:48	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 18:48	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 18:48	1
Chloroform	ND		2.0		ug/Kg			06/21/12 18:48	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 18:48	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 18:48	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:48	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 18:48	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 18:48	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 18:48	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 18:48	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 18:48	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 18:48	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 18:48	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 18:48	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 18:48	1
sec-Butylbenzene	**6.5**		5.0		ug/Kg			06/21/12 18:48	1
Styrene	ND		2.0		ug/Kg			06/21/12 18:48	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 18:48	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 18:48	1
Toluene	ND		2.0		ug/Kg			06/21/12 18:48	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 18:48	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 18:48	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-2-S-12'
Date Collected: 06/14/12 14:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 18:48	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 18:48	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 18:48	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 18:48	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 18:48	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 18:48	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 18:48	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 18:48	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/12 18:48*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*06/21/12 18:48*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 125*		*06/21/12 18:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**310**		75		mg/Kg		06/19/12 11:08	06/21/12 11:39	5
DRO (C13-C28)	**610**		75		mg/Kg		06/19/12 11:08	06/21/12 11:39	5
C13-C40	**930**		75		mg/Kg		06/19/12 11:08	06/21/12 11:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*76*		*40 - 140*	*06/19/12 11:08*	*06/21/12 11:39*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**250**		15		mg/Kg		06/20/12 11:00	06/21/12 14:31	1
DRO (C13-C28)	**260**		15		mg/Kg		06/20/12 11:00	06/21/12 14:31	1
C13-C40	**520**		15		mg/Kg		06/20/12 11:00	06/21/12 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*72*		*40 - 140*	*06/20/12 11:00*	*06/21/12 14:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*06/19/12 09:08*	*06/20/12 22:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:34	10
Zinc	**76**		10		mg/Kg		06/19/12 09:00	06/26/12 14:34	10
Nickel	**98**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:34	10
Chromium	**65**		2.0		mg/Kg		06/19/12 09:00	06/26/12 14:34	10
Cadmium	ND		1.0		mg/Kg		06/19/12 09:00	06/26/12 14:34	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-3-S-4'
Date Collected: 06/14/12 14:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 19:19	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 19:19	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 19:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 19:19	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:19	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:19	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 19:19	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 19:19	1
Benzene	ND		2.0		ug/Kg			06/21/12 19:19	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
Bromoform	ND		5.0		ug/Kg			06/21/12 19:19	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 19:19	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 19:19	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 19:19	1
Chloroform	ND		2.0		ug/Kg			06/21/12 19:19	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 19:19	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 19:19	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:19	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 19:19	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 19:19	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 19:19	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 19:19	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 19:19	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 19:19	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 19:19	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 19:19	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
Styrene	ND		2.0		ug/Kg			06/21/12 19:19	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:19	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 19:19	1
Toluene	ND		2.0		ug/Kg			06/21/12 19:19	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 19:19	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:19	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-3-S-4'
Date Collected: 06/14/12 14:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 19:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 19:19	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 19:19	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 19:19	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 19:19	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 19:19	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 19:19	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 19:19	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/21/12 19:19*	*1*
4-Bromofluorobenzene (Surr)	*115*		*80 - 120*		*06/21/12 19:19*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 125*		*06/21/12 19:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 11:38	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 11:38	1
C13-C40	**5.8**		5.0		mg/Kg		06/19/12 11:08	06/20/12 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*06/19/12 11:08*	*06/20/12 11:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:01	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:01	1
C13-C40	**8.5**		5.0		mg/Kg		06/20/12 11:00	06/21/12 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*40 - 140*	*06/20/12 11:00*	*06/21/12 07:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*06/19/12 09:08*	*06/20/12 22:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		9.8		mg/Kg		06/19/12 09:00	06/20/12 13:45	25
Zinc	**79**		25		mg/Kg		06/19/12 09:00	06/20/12 13:45	25
Nickel	**150**		9.8		mg/Kg		06/19/12 09:00	06/20/12 13:45	25
Chromium	**83**		4.9		mg/Kg		06/19/12 09:00	06/20/12 13:45	25
Cadmium	ND		2.5		mg/Kg		06/19/12 09:00	06/20/12 13:45	25

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-8-S-14'
Date Collected: 06/14/12 16:35
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 19:50	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 19:50	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:50	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			06/21/12 19:50	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 19:50	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:50	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 19:50	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 19:50	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 19:50	1
Benzene	ND		2.0		ug/Kg			06/21/12 19:50	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
Bromoform	ND		5.0		ug/Kg			06/21/12 19:50	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 19:50	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 19:50	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 19:50	1
Chloroform	ND		2.0		ug/Kg			06/21/12 19:50	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 19:50	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 19:50	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:50	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 19:50	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 19:50	1
Ethylbenzene	**2.1**		2.0		ug/Kg			06/21/12 19:50	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 19:50	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 19:50	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 19:50	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 19:50	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 19:50	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
N-Propylbenzene	**3.5**		2.0		ug/Kg			06/21/12 19:50	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 19:50	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
Styrene	ND		2.0		ug/Kg			06/21/12 19:50	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 19:50	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 19:50	1
Toluene	ND		2.0		ug/Kg			06/21/12 19:50	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 19:50	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 19:50	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-8-S-14'
Date Collected: 06/14/12 16:35
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 19:50	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 19:50	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 19:50	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 19:50	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 19:50	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 19:50	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 19:50	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 19:50	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/21/12 19:50*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*06/21/12 19:50*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 125*		*06/21/12 19:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		15		mg/Kg		06/19/12 11:08	06/20/12 12:18	1
DRO (C13-C28)	ND		15		mg/Kg		06/19/12 11:08	06/20/12 12:18	1
C13-C40	ND		15		mg/Kg		06/19/12 11:08	06/20/12 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*06/19/12 11:08*	*06/20/12 12:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:10	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:10	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*40 - 140*	*06/20/12 11:00*	*06/21/12 15:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*06/19/12 09:08*	*06/20/12 22:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:38	10
Zinc	**63**		9.9		mg/Kg		06/19/12 09:00	06/26/12 14:38	10
Nickel	**93**		4.0		mg/Kg		06/19/12 09:00	06/26/12 14:38	10
Chromium	**57**		2.0		mg/Kg		06/19/12 09:00	06/26/12 14:38	10
Cadmium	ND		0.99		mg/Kg		06/19/12 09:00	06/26/12 14:38	10

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-8-S-6'
Date Collected: 06/14/12 16:40
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 20:20	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 20:20	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 20:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/21/12 20:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 20:20	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 20:20	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 20:20	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 20:20	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 20:20	1
Benzene	ND		2.0		ug/Kg			06/21/12 20:20	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
Bromoform	ND		5.0		ug/Kg			06/21/12 20:20	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 20:20	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 20:20	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 20:20	1
Chloroform	ND		2.0		ug/Kg			06/21/12 20:20	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 20:20	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 20:20	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 20:20	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 20:20	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 20:20	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 20:20	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 20:20	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 20:20	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 20:20	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 20:20	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 20:20	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
Styrene	ND		2.0		ug/Kg			06/21/12 20:20	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 20:20	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 20:20	1
Toluene	ND		2.0		ug/Kg			06/21/12 20:20	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 20:20	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 20:20	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-8-S-6'
Date Collected: 06/14/12 16:40
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/21/12 20:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 20:20	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 20:20	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 20:20	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 20:20	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 20:20	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 20:20	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 20:20	1
Methyl-t-Butyl Ether (MTBE)	**13**		5.0		ug/Kg			06/21/12 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/21/12 20:20*	*1*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*		*06/21/12 20:20*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 125*		*06/21/12 20:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 12:58	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 12:58	1
C13-C40	ND		5.0		mg/Kg		06/19/12 11:08	06/20/12 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*87*		*40 - 140*	*06/19/12 11:08*	*06/20/12 12:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:46	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:46	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/21/12 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*06/20/12 11:00*	*06/21/12 15:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*06/19/12 09:08*	*06/20/12 23:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		3.9		mg/Kg		06/19/12 09:00	06/26/12 14:40	10
Zinc	**87**		9.9		mg/Kg		06/19/12 09:00	06/26/12 14:40	10
Nickel	**190**		3.9		mg/Kg		06/19/12 09:00	06/26/12 14:40	10
Chromium	**110**		2.0		mg/Kg		06/19/12 09:00	06/26/12 14:40	10
Cadmium	ND		0.99		mg/Kg		06/19/12 09:00	06/26/12 14:40	10

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-1-S-4'

Date Collected: 06/12/12 13:50
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	34311	06/21/12 15:46	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.04 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 04:55		TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 20:36	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.05 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 07:39		TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			34348	06/20/12 13:56	DT	TAL IRV

Client Sample ID: B-7-S-6'

Date Collected: 06/13/12 11:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	34311	06/21/12 16:16	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 05:30		TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 20:52	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.02 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 08:19		TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			34348	06/20/12 13:58	DT	TAL IRV

Client Sample ID: B-6-S-4'

Date Collected: 06/13/12 15:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	34311	06/21/12 16:46	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 06:12		TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 21:07	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.02 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 09:01		TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			34348	06/20/12 14:10	DT	TAL IRV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-7-S-14'

Date Collected: 06/13/12 15:35
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.03 g	10 mL	34311	06/21/12 17:17	KK	TAL IRV
Total/NA	Prep	CA LUFT			10.05 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 07:35		TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 21:22	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			10.02 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 11:04		TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			34348	06/20/12 14:13	DT	TAL IRV

Client Sample ID: B-4-S-8'

Date Collected: 06/13/12 17:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	34311	06/21/12 17:47	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.03 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 08:56		TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 21:37	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.08 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 11:46		TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		5			34348	06/20/12 13:38	DT	TAL IRV

Client Sample ID: B-1-S-12'

Date Collected: 06/14/12 10:30
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	34311	06/21/12 18:18	KK	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 21:52	JM	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		20			34194	06/21/12 11:18		TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.04 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		10			34426	06/22/12 13:32		TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			35286	06/26/12 14:32	TK	TAL IRV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-2-S-2'

Date Collected: 06/14/12 11:45
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	34311	06/21/12 13:13	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 10:17		TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 22:07	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.08 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 13:10		TAL IRV
Total/NA	Prep	3050B			1.98 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		25			34348	06/20/12 13:42	DT	TAL IRV

Client Sample ID: B-2-S-12'

Date Collected: 06/14/12 14:00
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	34311	06/21/12 18:48	KK	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 22:22	JM	TAL IRV
Total/NA	Prep	CA LUFT			10.00 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		5			34194	06/21/12 11:39		TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			10.08 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 14:31		TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			35286	06/26/12 14:34	TK	TAL IRV

Client Sample ID: B-3-S-4'

Date Collected: 06/14/12 14:15
Date Received: 06/15/12 10:30

Lab Sample ID: 440-14911-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	34311	06/21/12 19:19	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.03 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 11:38		TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 22:37	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.04 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 07:01		TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		25			34348	06/20/12 13:45	DT	TAL IRV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Client Sample ID: B-8-S-14'

Lab Sample ID: 440-14911-10

Date Collected: 06/14/12 16:35

Matrix: Solid

Date Received: 06/15/12 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	34311	06/21/12 19:50	KK	TAL IRV
Total/NA	Prep	CA LUFT			10.04 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 12:18		TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 22:52	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.07 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 15:10		TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			35286	06/26/12 14:38	TK	TAL IRV

Client Sample ID: B-8-S-6'

Lab Sample ID: 440-14911-11

Date Collected: 06/14/12 16:40

Matrix: Solid

Date Received: 06/15/12 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	34311	06/21/12 20:20	KK	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	33785	06/19/12 11:08	TM	TAL IRV
Total/NA	Analysis	8015B		1			33917	06/20/12 12:58		TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	33763	06/19/12 09:08	AB	TAL IRV
Total/NA	Analysis	8082		1			34064	06/20/12 23:07	JM	TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.05 g	1 mL	34045	06/20/12 11:00	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34251	06/21/12 15:46		TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	33756	06/19/12 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		10			35286	06/26/12 14:40	TK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 440-34311/3
Matrix: Solid
Analysis Batch: 34311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/21/12 12:12	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/21/12 12:12	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/21/12 12:12	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/21/12 12:12	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/21/12 12:12	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/21/12 12:12	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/21/12 12:12	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 12:12	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/21/12 12:12	1
Benzene	ND		2.0		ug/Kg			06/21/12 12:12	1
Bromobenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
Bromoform	ND		5.0		ug/Kg			06/21/12 12:12	1
Bromomethane	ND		5.0		ug/Kg			06/21/12 12:12	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/21/12 12:12	1
Chlorobenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
Chloroethane	ND		5.0		ug/Kg			06/21/12 12:12	1
Chloroform	ND		2.0		ug/Kg			06/21/12 12:12	1
Chloromethane	ND		5.0		ug/Kg			06/21/12 12:12	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 12:12	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 12:12	1
Dibromomethane	ND		2.0		ug/Kg			06/21/12 12:12	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/21/12 12:12	1
Ethylbenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/21/12 12:12	1
Isopropylbenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
m,p-Xylene	ND		2.0		ug/Kg			06/21/12 12:12	1
Methylene Chloride	ND		20		ug/Kg			06/21/12 12:12	1
Naphthalene	ND		5.0		ug/Kg			06/21/12 12:12	1
n-Butylbenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
N-Propylbenzene	ND		2.0		ug/Kg			06/21/12 12:12	1
o-Xylene	ND		2.0		ug/Kg			06/21/12 12:12	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
Styrene	ND		2.0		ug/Kg			06/21/12 12:12	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/21/12 12:12	1
Tetrachloroethene	ND		2.0		ug/Kg			06/21/12 12:12	1
Toluene	ND		2.0		ug/Kg			06/21/12 12:12	1

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

Lab Sample ID: MB 440-34311/3
Matrix: Solid
Analysis Batch: 34311

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/21/12 12:12	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/21/12 12:12	1
Trichloroethene	ND		2.0		ug/Kg			06/21/12 12:12	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/21/12 12:12	1
Vinyl chloride	ND		5.0		ug/Kg			06/21/12 12:12	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/21/12 12:12	1
Bromochloromethane	ND		5.0		ug/Kg			06/21/12 12:12	1
Bromodichloromethane	ND		2.0		ug/Kg			06/21/12 12:12	1
Dibromochloromethane	ND		2.0		ug/Kg			06/21/12 12:12	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/21/12 12:12	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/21/12 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/21/12 12:12*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*06/21/12 12:12*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 125*		*06/21/12 12:12*	*1*

Lab Sample ID: LCS 440-34311/4
Matrix: Solid
Analysis Batch: 34311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/Kg		112	70 - 130
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	65 - 135
1,1,2,2-Tetrachloroethane	50.0	54.7		ug/Kg		109	55 - 140
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	65 - 135
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	53.9		ug/Kg		108	70 - 125
1,1-Dichloropropene	50.0	48.1		ug/Kg		96	70 - 130
1,2,3-Trichlorobenzene	50.0	48.3		ug/Kg		97	60 - 130
1,2,3-Trichloropropane	50.0	50.8		ug/Kg		102	60 - 135
1,2,4-Trichlorobenzene	50.0	52.8		ug/Kg		106	70 - 135
1,2,4-Trimethylbenzene	50.0	55.1		ug/Kg		110	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/Kg		93	50 - 135
1,2-Dichlorobenzene	50.0	54.4		ug/Kg		109	75 - 120
1,2-Dichloroethane	50.0	50.3		ug/Kg		101	60 - 140
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	50.0	54.7		ug/Kg		109	70 - 125
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	75 - 125
1,3-Dichloropropane	50.0	49.7		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	53.6		ug/Kg		107	75 - 120
2,2-Dichloropropane	50.0	53.4		ug/Kg		107	60 - 145
2-Chlorotoluene	50.0	53.7		ug/Kg		107	70 - 125
4-Chlorotoluene	50.0	53.0		ug/Kg		106	75 - 125
Benzene	50.0	49.1		ug/Kg		98	65 - 120
Bromobenzene	50.0	53.9		ug/Kg		108	75 - 120
Bromoform	50.0	50.0		ug/Kg		100	55 - 135
Bromomethane	50.0	50.3		ug/Kg		101	60 - 145
Carbon tetrachloride	50.0	52.9		ug/Kg		106	65 - 140

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

Lab Sample ID: LCS 440-34311/4
Matrix: Solid
Analysis Batch: 34311

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	52.6		ug/Kg		105	75 - 120
Chloroethane	50.0	47.3		ug/Kg		95	60 - 140
Chloroform	50.0	50.9		ug/Kg		102	70 - 130
Chloromethane	50.0	46.3		ug/Kg		93	45 - 145
cis-1,2-Dichloroethene	50.0	56.1		ug/Kg		112	70 - 125
cis-1,3-Dichloropropene	50.0	48.7		ug/Kg		97	75 - 125
Dibromomethane	50.0	53.6		ug/Kg		107	70 - 130
Dichlorodifluoromethane	50.0	38.4		ug/Kg		77	35 - 160
Ethylbenzene	50.0	53.6		ug/Kg		107	70 - 125
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	60 - 135
Isopropylbenzene	50.0	54.2		ug/Kg		108	75 - 130
m,p-Xylene	100	101		ug/Kg		101	70 - 125
Methylene Chloride	50.0	47.9		ug/Kg		96	55 - 135
Naphthalene	50.0	52.5		ug/Kg		105	55 - 135
n-Butylbenzene	50.0	55.3		ug/Kg		111	70 - 130
N-Propylbenzene	50.0	54.6		ug/Kg		109	70 - 130
o-Xylene	50.0	53.0		ug/Kg		106	70 - 125
sec-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 125
Styrene	50.0	54.1		ug/Kg		108	75 - 130
tert-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 125
Tetrachloroethene	50.0	52.4		ug/Kg		105	70 - 125
Toluene	50.0	54.6		ug/Kg		109	70 - 125
trans-1,2-Dichloroethene	50.0	54.7		ug/Kg		109	70 - 125
trans-1,3-Dichloropropene	50.0	60.3		ug/Kg		121	70 - 135
Trichloroethene	50.0	52.6		ug/Kg		105	70 - 125
Trichlorofluoromethane	50.0	50.7		ug/Kg		101	60 - 145
Vinyl chloride	50.0	48.2		ug/Kg		96	55 - 135
1,2-Dibromoethane (EDB)	50.0	51.7		ug/Kg		103	70 - 130
Bromochloromethane	50.0	54.0		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	53.2		ug/Kg		106	70 - 135
Dibromochloromethane	50.0	55.9		ug/Kg		112	65 - 140
p-Isopropyltoluene	50.0	56.2		ug/Kg		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	54.8		ug/Kg		110	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 125*

Lab Sample ID: 440-14911-7 MS
Matrix: Solid
Analysis Batch: 34311

Client Sample ID: B-2-S-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	63.3		ug/Kg		127	65 - 145
1,1,1-Trichloroethane	ND		49.8	55.7		ug/Kg		112	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	63.7		ug/Kg		128	40 - 160
1,1,2-Trichloroethane	ND		49.8	58.4		ug/Kg		117	65 - 140
1,1-Dichloroethane	ND		49.8	54.0		ug/Kg		109	65 - 135

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

Lab Sample ID: 440-14911-7 MS
Matrix: Solid
Analysis Batch: 34311

Client Sample ID: B-2-S-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		49.8	59.3		ug/Kg		119	65 - 135
1,1-Dichloropropene	ND		49.8	52.2		ug/Kg		105	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	51.4		ug/Kg		103	45 - 145
1,2,3-Trichloropropane	ND		49.8	59.1		ug/Kg		119	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	55.9		ug/Kg		112	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	61.5		ug/Kg		123	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	52.3		ug/Kg		105	40 - 150
1,2-Dichlorobenzene	ND		49.8	61.0		ug/Kg		122	70 - 130
1,2-Dichloroethane	ND		49.8	58.4		ug/Kg		117	60 - 150
1,2-Dichloropropane	ND		49.8	56.2		ug/Kg		113	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	60.7		ug/Kg		122	65 - 135
1,3-Dichlorobenzene	ND		49.8	60.6		ug/Kg		122	70 - 130
1,3-Dichloropropane	ND		49.8	57.9		ug/Kg		116	65 - 140
1,4-Dichlorobenzene	ND		49.8	59.8		ug/Kg		120	70 - 130
2,2-Dichloropropane	ND		49.8	57.6		ug/Kg		116	65 - 150
2-Chlorotoluene	ND		49.8	60.6		ug/Kg		122	60 - 135
4-Chlorotoluene	ND		49.8	60.4		ug/Kg		121	65 - 135
Benzene	ND		49.8	54.0		ug/Kg		109	65 - 130
Bromobenzene	ND		49.8	62.9		ug/Kg		126	65 - 140
Bromoform	ND		49.8	57.5		ug/Kg		115	50 - 145
Bromomethane	ND		49.8	56.5		ug/Kg		113	60 - 155
Carbon tetrachloride	ND		49.8	58.5		ug/Kg		117	60 - 145
Chlorobenzene	ND		49.8	58.6		ug/Kg		118	70 - 130
Chloroethane	ND		49.8	52.2		ug/Kg		105	60 - 150
Chloroform	ND		49.8	54.8		ug/Kg		110	65 - 135
Chloromethane	ND		49.8	53.4		ug/Kg		107	40 - 145
cis-1,2-Dichloroethene	ND		49.8	60.4		ug/Kg		121	65 - 135
cis-1,3-Dichloropropene	ND		49.8	56.2		ug/Kg		113	70 - 135
Dibromomethane	ND		49.8	61.8		ug/Kg		124	65 - 140
Dichlorodifluoromethane	ND		49.8	49.8		ug/Kg		100	30 - 160
Ethylbenzene	ND		49.8	60.5		ug/Kg		121	70 - 135
Hexachlorobutadiene	ND		49.8	55.1		ug/Kg		111	50 - 145
Isopropylbenzene	ND		49.8	60.9		ug/Kg		122	70 - 145
m,p-Xylene	ND		99.6	114		ug/Kg		114	70 - 130
Methylene Chloride	ND		49.8	54.0		ug/Kg		108	55 - 145
Naphthalene	ND		49.8	54.7		ug/Kg		110	40 - 150
n-Butylbenzene	ND		49.8	62.6		ug/Kg		126	55 - 145
N-Propylbenzene	ND		49.8	62.2		ug/Kg		125	65 - 140
o-Xylene	ND		49.8	58.8		ug/Kg		118	65 - 130
sec-Butylbenzene	ND		49.8	58.5		ug/Kg		118	60 - 135
Styrene	ND		49.8	58.8		ug/Kg		118	70 - 140
tert-Butylbenzene	ND		49.8	62.3		ug/Kg		125	60 - 140
Tetrachloroethene	ND		49.8	57.7		ug/Kg		116	65 - 135
Toluene	ND		49.8	60.8		ug/Kg		122	70 - 130
trans-1,2-Dichloroethene	ND		49.8	58.5		ug/Kg		117	70 - 135
trans-1,3-Dichloropropene	ND		49.8	69.2		ug/Kg		139	60 - 145
Trichloroethene	ND		49.8	57.8		ug/Kg		116	65 - 140
Trichlorofluoromethane	ND		49.8	56.9		ug/Kg		114	55 - 155
Vinyl chloride	ND		49.8	55.2		ug/Kg		111	55 - 140
1,2-Dibromoethane (EDB)	ND		49.8	61.2		ug/Kg		123	65 - 140

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

Lab Sample ID: 440-14911-7 MS
Matrix: Solid
Analysis Batch: 34311

Client Sample ID: B-2-S-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	ND		49.8	61.3		ug/Kg		123	65 - 145
Bromodichloromethane	ND		49.8	59.9		ug/Kg		120	65 - 145
Dibromochloromethane	ND		49.8	64.5		ug/Kg		130	60 - 145
p-Isopropyltoluene	ND		49.8	62.6		ug/Kg		126	60 - 140
Methyl-t-Butyl Ether (MTBE)	ND		49.8	61.9		ug/Kg		124	55 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 125*

Lab Sample ID: 440-14911-7 MSD
Matrix: Solid
Analysis Batch: 34311

Client Sample ID: B-2-S-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.5	61.6		ug/Kg		124	65 - 145	3	20
1,1,1-Trichloroethane	ND		49.5	54.0		ug/Kg		109	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		49.5	63.9		ug/Kg		129	40 - 160	0	30
1,1,2-Trichloroethane	ND		49.5	56.5		ug/Kg		114	65 - 140	3	30
1,1-Dichloroethane	ND		49.5	52.4		ug/Kg		106	65 - 135	3	25
1,1-Dichloroethene	ND		49.5	58.3		ug/Kg		118	65 - 135	2	25
1,1-Dichloropropene	ND		49.5	51.1		ug/Kg		103	65 - 135	2	20
1,2,3-Trichlorobenzene	ND		49.5	48.2		ug/Kg		97	45 - 145	6	30
1,2,3-Trichloropropane	ND		49.5	61.0		ug/Kg		123	50 - 150	3	30
1,2,4-Trichlorobenzene	ND		49.5	54.1		ug/Kg		109	50 - 140	3	30
1,2,4-Trimethylbenzene	ND		49.5	61.0		ug/Kg		123	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		49.5	52.1		ug/Kg		105	40 - 150	0	30
1,2-Dichlorobenzene	ND		49.5	59.6		ug/Kg		120	70 - 130	2	25
1,2-Dichloroethane	ND		49.5	56.7		ug/Kg		115	60 - 150	3	25
1,2-Dichloropropane	ND		49.5	53.1		ug/Kg		107	65 - 130	6	20
1,3,5-Trimethylbenzene	ND		49.5	60.4		ug/Kg		122	65 - 135	0	25
1,3-Dichlorobenzene	ND		49.5	59.5		ug/Kg		120	70 - 130	2	25
1,3-Dichloropropane	ND		49.5	58.0		ug/Kg		117	65 - 140	0	25
1,4-Dichlorobenzene	ND		49.5	58.6		ug/Kg		118	70 - 130	2	25
2,2-Dichloropropane	ND		49.5	56.2		ug/Kg		114	65 - 150	2	25
2-Chlorotoluene	ND		49.5	58.9		ug/Kg		119	60 - 135	3	25
4-Chlorotoluene	ND		49.5	60.2		ug/Kg		122	65 - 135	0	25
Benzene	ND		49.5	52.3		ug/Kg		106	65 - 130	3	20
Bromobenzene	ND		49.5	60.7		ug/Kg		123	65 - 140	3	25
Bromoform	ND		49.5	56.5		ug/Kg		114	50 - 145	2	30
Bromomethane	ND		49.5	54.1		ug/Kg		109	60 - 155	4	25
Carbon tetrachloride	ND		49.5	56.9		ug/Kg		115	60 - 145	3	25
Chlorobenzene	ND		49.5	57.2		ug/Kg		115	70 - 130	2	25
Chloroethane	ND		49.5	51.3		ug/Kg		104	60 - 150	2	25
Chloroform	ND		49.5	52.8		ug/Kg		107	65 - 135	4	20
Chloromethane	ND		49.5	52.1		ug/Kg		105	40 - 145	3	25
cis-1,2-Dichloroethene	ND		49.5	58.9		ug/Kg		119	65 - 135	2	25
cis-1,3-Dichloropropene	ND		49.5	54.6		ug/Kg		110	70 - 135	3	25

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

Lab Sample ID: 440-14911-7 MSD
Matrix: Solid
Analysis Batch: 34311

Client Sample ID: B-2-S-2'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		49.5	59.7		ug/Kg		121	65 - 140	3	25
Dichlorodifluoromethane	ND		49.5	49.1		ug/Kg		99	30 - 160	1	35
Ethylbenzene	ND		49.5	58.5		ug/Kg		118	70 - 135	3	25
Hexachlorobutadiene	ND		49.5	52.5		ug/Kg		106	50 - 145	5	35
Isopropylbenzene	ND		49.5	61.1		ug/Kg		123	70 - 145	0	25
m,p-Xylene	ND		99.0	111		ug/Kg		112	70 - 130	2	25
Methylene Chloride	ND		49.5	52.0		ug/Kg		105	55 - 145	4	25
Naphthalene	ND		49.5	52.7		ug/Kg		107	40 - 150	4	40
n-Butylbenzene	ND		49.5	62.1		ug/Kg		125	55 - 145	1	30
N-Propylbenzene	ND		49.5	61.5		ug/Kg		124	65 - 140	1	25
o-Xylene	ND		49.5	57.7		ug/Kg		117	65 - 130	2	25
sec-Butylbenzene	ND		49.5	57.0		ug/Kg		115	60 - 135	3	25
Styrene	ND		49.5	57.6		ug/Kg		116	70 - 140	2	25
tert-Butylbenzene	ND		49.5	61.8		ug/Kg		125	60 - 140	1	25
Tetrachloroethene	ND		49.5	56.9		ug/Kg		115	65 - 135	1	25
Toluene	ND		49.5	58.3		ug/Kg		118	70 - 130	4	20
trans-1,2-Dichloroethene	ND		49.5	56.8		ug/Kg		115	70 - 135	3	25
trans-1,3-Dichloropropene	ND		49.5	66.2		ug/Kg		134	60 - 145	5	25
Trichloroethene	ND		49.5	57.2		ug/Kg		115	65 - 140	1	25
Trichlorofluoromethane	ND		49.5	53.8		ug/Kg		109	55 - 155	6	25
Vinyl chloride	ND		49.5	52.9		ug/Kg		107	55 - 140	4	30
1,2-Dibromoethane (EDB)	ND		49.5	59.4		ug/Kg		120	65 - 140	3	25
Bromochloromethane	ND		49.5	58.1		ug/Kg		117	65 - 145	5	25
Bromodichloromethane	ND		49.5	57.7		ug/Kg		117	65 - 145	4	20
Dibromochloromethane	ND		49.5	63.5		ug/Kg		128	60 - 145	2	25
p-Isopropyltoluene	ND		49.5	61.7		ug/Kg		125	60 - 140	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.5	60.4		ug/Kg		122	55 - 155	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 125*

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

Lab Sample ID: MB 440-33785/1-A
Matrix: Solid
Analysis Batch: 33917

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/19/12 11:08	06/19/12 22:29	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/19/12 11:08	06/19/12 22:29	1
C13-C40	ND		5.0		mg/Kg		06/19/12 11:08	06/19/12 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*06/19/12 11:08*	*06/19/12 22:29*	*1*

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

Lab Sample ID: LCS 440-33785/2-A
Matrix: Solid
Analysis Batch: 33917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33785

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)			33.3	23.0		mg/Kg		69	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*78*		*40 - 140*

Lab Sample ID: 440-14702-A-6-A MS
Matrix: Solid
Analysis Batch: 33917

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)	9.7		33.3	27.4		mg/Kg		53	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*89*		*40 - 140*

Lab Sample ID: 440-14702-A-6-B MSD
Matrix: Solid
Analysis Batch: 33917

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 33785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EFH (C10-C28)	9.7		33.3	23.8		mg/Kg		42	40 - 120	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*72*		*40 - 140*

Lab Sample ID: MB 440-34045/1-A
Matrix: Solid
Analysis Batch: 34251

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 34045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/20/12 11:00	06/20/12 23:02	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/20/12 11:00	06/20/12 23:02	1
C13-C40	ND		5.0		mg/Kg		06/20/12 11:00	06/20/12 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*06/20/12 11:00*	*06/20/12 23:02*	*1*

Lab Sample ID: LCS 440-34045/2-A
Matrix: Solid
Analysis Batch: 34251

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 34045

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)			33.3	21.5		mg/Kg		64	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*76*		*40 - 140*

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

Lab Sample ID: 440-14911-9 MS
Matrix: Solid
Analysis Batch: 34251

Client Sample ID: B-3-S-4'
Prep Type: Silica Gel Cleanup
Prep Batch: 34045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
EFH (C10-C28)	5.0		33.3	24.6		mg/Kg		59	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*79*		*40 - 140*

Lab Sample ID: 440-14911-9 MSD
Matrix: Solid
Analysis Batch: 34251

Client Sample ID: B-3-S-4'
Prep Type: Silica Gel Cleanup
Prep Batch: 34045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EFH (C10-C28)	5.0		33.2	24.5		mg/Kg		59	40 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*79*		*40 - 140*

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

Lab Sample ID: MB 440-33763/1-A
Matrix: Solid
Analysis Batch: 34064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1221	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1232	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1242	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1248	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1254	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1
Aroclor 1260	ND		50		ug/Kg		06/19/12 09:08	06/20/12 18:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*06/19/12 09:08*	*06/20/12 18:36*	*1*

Lab Sample ID: LCS 440-33763/2-A
Matrix: Solid
Analysis Batch: 34064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	262		ug/Kg		98	65 - 115
Aroclor 1260	267	221		ug/Kg		83	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*

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

Lab Sample ID: 440-14911-1 MS
Matrix: Solid
Analysis Batch: 34064

Client Sample ID: B-1-S-4'
Prep Type: Total/NA
Prep Batch: 33763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		266	265		ug/Kg		99	50 - 120
Aroclor 1260	ND		266	222		ug/Kg		83	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*

Lab Sample ID: 440-14911-1 MSD
Matrix: Solid
Analysis Batch: 34064

Client Sample ID: B-1-S-4'
Prep Type: Total/NA
Prep Batch: 33763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	263		ug/Kg		99	50 - 120	4	30
Aroclor 1260	ND		266	220		ug/Kg		83	50 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-33756/1-A ^5
Matrix: Solid
Analysis Batch: 34348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		mg/Kg		06/19/12 09:00	06/20/12 12:26	5
Zinc	ND		5.0		mg/Kg		06/19/12 09:00	06/20/12 12:26	5
Nickel	ND		2.0		mg/Kg		06/19/12 09:00	06/20/12 12:26	5
Chromium	ND		1.0		mg/Kg		06/19/12 09:00	06/20/12 12:26	5
Cadmium	ND		0.50		mg/Kg		06/19/12 09:00	06/20/12 12:26	5

Lab Sample ID: LCS 440-33756/2-A ^5
Matrix: Solid
Analysis Batch: 34348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.8	48.1		mg/Kg		97	80 - 120
Zinc	49.8	45.5		mg/Kg		91	80 - 120
Nickel	49.8	47.9		mg/Kg		96	80 - 120
Chromium	49.8	49.5		mg/Kg		99	80 - 120
Cadmium	49.8	47.0		mg/Kg		94	80 - 120

Lab Sample ID: 440-14954-A-1-B MS ^50
Matrix: Solid
Analysis Batch: 34348

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	51		49.5	121	F	mg/Kg		51	75 - 125
Zinc	1100		49.5	569	4	mg/Kg		-1094	75 - 125
Nickel	150		49.5	152	F	mg/Kg		49	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-14954-A-1-B MS ^50
Matrix: Solid
Analysis Batch: 34348

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	96		49.5	137	F	mg/Kg		58	75 - 125
Cadmium	ND		49.5	49.6		mg/Kg		93	75 - 125

Lab Sample ID: 440-14954-A-1-C MSD ^50
Matrix: Solid
Analysis Batch: 34348

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 33756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	51		50.0	139		mg/Kg		89	75 - 125	14	20
Zinc	1100		50.0	703	4 F	mg/Kg		-815	75 - 125	21	20
Nickel	150		50.0	203	F	mg/Kg		152	75 - 125	29	20
Chromium	96		50.0	218	F	mg/Kg		218	75 - 125	45	20
Cadmium	ND		50.0	48.3		mg/Kg		89	75 - 125	3	20

GC/MS VOA

Analysis Batch: 34311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Total/NA	Solid	8260B	
440-14911-2	B-7-S-6'	Total/NA	Solid	8260B	
440-14911-3	B-6-S-4'	Total/NA	Solid	8260B	
440-14911-4	B-7-S-14'	Total/NA	Solid	8260B	
440-14911-5	B-4-S-8'	Total/NA	Solid	8260B	
440-14911-6	B-1-S-12'	Total/NA	Solid	8260B	
440-14911-7	B-2-S-2'	Total/NA	Solid	8260B	
440-14911-7 MS	B-2-S-2'	Total/NA	Solid	8260B	
440-14911-7 MSD	B-2-S-2'	Total/NA	Solid	8260B	
440-14911-8	B-2-S-12'	Total/NA	Solid	8260B	
440-14911-9	B-3-S-4'	Total/NA	Solid	8260B	
440-14911-10	B-8-S-14'	Total/NA	Solid	8260B	
440-14911-11	B-8-S-6'	Total/NA	Solid	8260B	
LCS 440-34311/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-34311/3	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 33763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Total/NA	Solid	3546	
440-14911-1 MS	B-1-S-4'	Total/NA	Solid	3546	
440-14911-1 MSD	B-1-S-4'	Total/NA	Solid	3546	
440-14911-2	B-7-S-6'	Total/NA	Solid	3546	
440-14911-3	B-6-S-4'	Total/NA	Solid	3546	
440-14911-4	B-7-S-14'	Total/NA	Solid	3546	
440-14911-5	B-4-S-8'	Total/NA	Solid	3546	
440-14911-6	B-1-S-12'	Total/NA	Solid	3546	
440-14911-7	B-2-S-2'	Total/NA	Solid	3546	
440-14911-8	B-2-S-12'	Total/NA	Solid	3546	
440-14911-9	B-3-S-4'	Total/NA	Solid	3546	
440-14911-10	B-8-S-14'	Total/NA	Solid	3546	
440-14911-11	B-8-S-6'	Total/NA	Solid	3546	
LCS 440-33763/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-33763/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 33785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14702-A-6-A MS	Matrix Spike	Total/NA	Solid	CA LUFT	
440-14702-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	CA LUFT	
440-14911-1	B-1-S-4'	Total/NA	Solid	CA LUFT	
440-14911-2	B-7-S-6'	Total/NA	Solid	CA LUFT	
440-14911-3	B-6-S-4'	Total/NA	Solid	CA LUFT	
440-14911-4	B-7-S-14'	Total/NA	Solid	CA LUFT	
440-14911-5	B-4-S-8'	Total/NA	Solid	CA LUFT	
440-14911-6	B-1-S-12'	Total/NA	Solid	CA LUFT	
440-14911-7	B-2-S-2'	Total/NA	Solid	CA LUFT	
440-14911-8	B-2-S-12'	Total/NA	Solid	CA LUFT	
440-14911-9	B-3-S-4'	Total/NA	Solid	CA LUFT	
440-14911-10	B-8-S-14'	Total/NA	Solid	CA LUFT	
440-14911-11	B-8-S-6'	Total/NA	Solid	CA LUFT	
LCS 440-33785/2-A	Lab Control Sample	Total/NA	Solid	CA LUFT	

GC Semi VOA (Continued)

Prep Batch: 33785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-33785/1-A	Method Blank	Total/NA	Solid	CA LUFT	

Analysis Batch: 33917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14702-A-6-A MS	Matrix Spike	Total/NA	Solid	8015B	33785
440-14702-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	33785
440-14911-1	B-1-S-4'	Total/NA	Solid	8015B	33785
440-14911-2	B-7-S-6'	Total/NA	Solid	8015B	33785
440-14911-3	B-6-S-4'	Total/NA	Solid	8015B	33785
440-14911-4	B-7-S-14'	Total/NA	Solid	8015B	33785
440-14911-5	B-4-S-8'	Total/NA	Solid	8015B	33785
440-14911-7	B-2-S-2'	Total/NA	Solid	8015B	33785
440-14911-9	B-3-S-4'	Total/NA	Solid	8015B	33785
440-14911-10	B-8-S-14'	Total/NA	Solid	8015B	33785
440-14911-11	B-8-S-6'	Total/NA	Solid	8015B	33785
LCS 440-33785/2-A	Lab Control Sample	Total/NA	Solid	8015B	33785
MB 440-33785/1-A	Method Blank	Total/NA	Solid	8015B	33785

Prep Batch: 34045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-2	B-7-S-6'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-3	B-6-S-4'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-4	B-7-S-14'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-5	B-4-S-8'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-6	B-1-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-7	B-2-S-2'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-8	B-2-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-9	B-3-S-4'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-9 MS	B-3-S-4'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-9 MSD	B-3-S-4'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-10	B-8-S-14'	Silica Gel Cleanup	Solid	CA LUFT	
440-14911-11	B-8-S-6'	Silica Gel Cleanup	Solid	CA LUFT	
LCS 440-34045/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	CA LUFT	
MB 440-34045/1-A	Method Blank	Silica Gel Cleanup	Solid	CA LUFT	

Analysis Batch: 34064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Total/NA	Solid	8082	33763
440-14911-1 MS	B-1-S-4'	Total/NA	Solid	8082	33763
440-14911-1 MSD	B-1-S-4'	Total/NA	Solid	8082	33763
440-14911-2	B-7-S-6'	Total/NA	Solid	8082	33763
440-14911-3	B-6-S-4'	Total/NA	Solid	8082	33763
440-14911-4	B-7-S-14'	Total/NA	Solid	8082	33763
440-14911-5	B-4-S-8'	Total/NA	Solid	8082	33763
440-14911-6	B-1-S-12'	Total/NA	Solid	8082	33763
440-14911-7	B-2-S-2'	Total/NA	Solid	8082	33763
440-14911-8	B-2-S-12'	Total/NA	Solid	8082	33763
440-14911-9	B-3-S-4'	Total/NA	Solid	8082	33763
440-14911-10	B-8-S-14'	Total/NA	Solid	8082	33763
440-14911-11	B-8-S-6'	Total/NA	Solid	8082	33763
LCS 440-33763/2-A	Lab Control Sample	Total/NA	Solid	8082	33763

GC Semi VOA (Continued)

Analysis Batch: 34064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-33763/1-A	Method Blank	Total/NA	Solid	8082	33763

Analysis Batch: 34194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-6	B-1-S-12'	Total/NA	Solid	8015B	33785
440-14911-8	B-2-S-12'	Total/NA	Solid	8015B	33785

Analysis Batch: 34251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-2	B-7-S-6'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-3	B-6-S-4'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-4	B-7-S-14'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-5	B-4-S-8'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-7	B-2-S-2'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-8	B-2-S-12'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-9	B-3-S-4'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-9 MS	B-3-S-4'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-9 MSD	B-3-S-4'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-10	B-8-S-14'	Silica Gel Cleanup	Solid	8015B	34045
440-14911-11	B-8-S-6'	Silica Gel Cleanup	Solid	8015B	34045
LCS 440-34045/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	34045
MB 440-34045/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	34045

Analysis Batch: 34426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-6	B-1-S-12'	Silica Gel Cleanup	Solid	8015B	34045

Metals

Prep Batch: 33756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Total/NA	Solid	3050B	
440-14911-2	B-7-S-6'	Total/NA	Solid	3050B	
440-14911-3	B-6-S-4'	Total/NA	Solid	3050B	
440-14911-4	B-7-S-14'	Total/NA	Solid	3050B	
440-14911-5	B-4-S-8'	Total/NA	Solid	3050B	
440-14911-6	B-1-S-12'	Total/NA	Solid	3050B	
440-14911-7	B-2-S-2'	Total/NA	Solid	3050B	
440-14911-8	B-2-S-12'	Total/NA	Solid	3050B	
440-14911-9	B-3-S-4'	Total/NA	Solid	3050B	
440-14911-10	B-8-S-14'	Total/NA	Solid	3050B	
440-14911-11	B-8-S-6'	Total/NA	Solid	3050B	
440-14954-A-1-B MS ^50	Matrix Spike	Total/NA	Solid	3050B	
440-14954-A-1-C MSD ^50	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 440-33756/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-33756/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 34348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-1	B-1-S-4'	Total/NA	Solid	6010B	33756
440-14911-2	B-7-S-6'	Total/NA	Solid	6010B	33756

Metals (Continued)

Analysis Batch: 34348 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-3	B-6-S-4'	Total/NA	Solid	6010B	33756
440-14911-4	B-7-S-14'	Total/NA	Solid	6010B	33756
440-14911-5	B-4-S-8'	Total/NA	Solid	6010B	33756
440-14911-7	B-2-S-2'	Total/NA	Solid	6010B	33756
440-14911-9	B-3-S-4'	Total/NA	Solid	6010B	33756
440-14954-A-1-B MS ^50	Matrix Spike	Total/NA	Solid	6010B	33756
440-14954-A-1-C MSD ^50	Matrix Spike Duplicate	Total/NA	Solid	6010B	33756
LCS 440-33756/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	33756
MB 440-33756/1-A ^5	Method Blank	Total/NA	Solid	6010B	33756

Analysis Batch: 35286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14911-6	B-1-S-12'	Total/NA	Solid	6010B	33756
440-14911-8	B-2-S-12'	Total/NA	Solid	6010B	33756
440-14911-10	B-8-S-14'	Total/NA	Solid	6010B	33756
440-14911-11	B-8-S-6'	Total/NA	Solid	6010B	33756

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14911-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013 (0911)

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

440-14911

Client Name/Address: ARCADIS / 320 Commerce, Ste 200 Irvine, CA 92602

Project/PO Number: B00609019.9708

Project Manager: Toni Demayo

Phone Number: 714.508.2657

Sampler: LK/BW

Fax Number: 714.730.9345

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: TPH-MO (8015M)	TPH-DRO (8015B) w/silica gel cleanup	TPH-DRO (8015B)	BTEX+MTBE (8260B)	Halogenated VOCs (8260B)	Cadmium, chromium, lead, nickel, zinc (6010B)	PCBs (8082)	TPH-MO (8015M) w/silica gel cleanup		Special Instructions
B-1-S-4'	S	sleeve	1	6/12/12	1350	—	X	X	X	X	X	X	X	X		
~~B-7-S-4'~~ B-7-S-6'	S	sleeve	1	6/13/12	1100	—	X	X	X	X	X	X	X	X		
B-6-S-4'	S	sleeve	1	6/13/12	1500	—	X	X	X	X	X	X	X	X		
B-7-S-14'	S	sleeve	1	6/13/12	1535	—	X	X	X	X	X	X	X	X		
B-4-S-8'	S	sleeve	1	6/13/12	1715	—	X	X	X	X	X	X	X	X		
B-1-S-12'	S	sleeve	1	6/14/12	1030	—	X	X	X	X	X	X	X	X		
B-2-S-2'	S	sleeve	1	6/14/12	1145	—	X	X	X	X	X	X	X	X		
B-2-S-12'	S	sleeve	1	6/14/12	1400	—	X	X	X	X	X	X	X	X		
B-3-S-4'	S	sleeve	1	6/14/12	1415	—	X	X	X	X	X	X	X	X		
B-8-S-14'	S	sleeve	1	6/14/12	1635	—	X	X	X	X	X	X	X	X		
B-8-S-6'	S	sleeve	1	6/14/12	1640	—	X	X	X	X	X	X	X	X		

Relinquished By:	Date/Time: 6/14/12 1933	Received By:	Date/Time: 6-14-12 1933
Relinquished By:	Date/Time: 6/15/12 1544	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time: 06/15/12 10:30

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact X on ice X 1.3°

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

5.8°/5.6°

(5)

7/13/2012

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 440-14911-1

Login Number: 14911

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	LK/BW
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-15194-1
Client Project/Site: Chevron - 9-9708

For:
ARCADIS U.S., Inc.
3240 El Camino Real
Suite 200
Irvine, California 92602

Attn: Toni DeMayo

Authorized for release by:
7/5/2012 9:34:02 PM

Sushmitha Reddy
Project Manager I
sushmitha.reddy@testamericainc.com

Table of Contents

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-15194-1	B-3-S-12'	Solid	06/15/12 11:30	06/20/12 09:40
440-15194-2	B-4-S-12'	Solid	06/15/12 15:20	06/20/12 09:40

Job ID: 440-15194-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-15194-1

Comments
No additional comments.

Receipt
The samples were received on 6/20/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following sample(s) required a copper clean-up to reduce matrix interferences caused by sulfur: (440-15317-4 MS), (440-15317-4 MSD), (LCS 440-34843/5-A), (MB 440-34843/1-A), B-4-S-12' (440-15194-2), MS-S04 (440-15317-4).

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 34927 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: B-4-S-12' (440-15194-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
Method(s) CA LUFT: The following sample(s) was diluted due to the nature of the sample matrix: B-4-S-12' (440-15194-2). Elevated reporting limits (RLs) are provided.

Method(s) CA LUFT: The following sample(s) was diluted due to the nature of the sample matrix: B-4-S-12' (440-15194-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Client Sample ID: B-3-S-12'
Date Collected: 06/15/12 11:30
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15194-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/27/12 17:01	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/27/12 17:01	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:01	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/27/12 17:01	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/27/12 17:01	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:01	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:01	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 17:01	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 17:01	1
Benzene	ND		2.0		ug/Kg			06/27/12 17:01	1
Bromobenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
Bromoform	ND		5.0		ug/Kg			06/27/12 17:01	1
Bromomethane	ND		5.0		ug/Kg			06/27/12 17:01	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/27/12 17:01	1
Chlorobenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
Chloroethane	ND		5.0		ug/Kg			06/27/12 17:01	1
Chloroform	ND		2.0		ug/Kg			06/27/12 17:01	1
Chloromethane	ND		5.0		ug/Kg			06/27/12 17:01	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 17:01	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:01	1
Dibromomethane	ND		2.0		ug/Kg			06/27/12 17:01	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/27/12 17:01	1
Ethylbenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/27/12 17:01	1
Isopropylbenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
m,p-Xylene	ND		2.0		ug/Kg			06/27/12 17:01	1
Methylene Chloride	ND		20		ug/Kg			06/27/12 17:01	1
Naphthalene	ND		5.0		ug/Kg			06/27/12 17:01	1
n-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
N-Propylbenzene	ND		2.0		ug/Kg			06/27/12 17:01	1
o-Xylene	ND		2.0		ug/Kg			06/27/12 17:01	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
Styrene	ND		2.0		ug/Kg			06/27/12 17:01	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:01	1
Tetrachloroethene	ND		2.0		ug/Kg			06/27/12 17:01	1
Toluene	ND		2.0		ug/Kg			06/27/12 17:01	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 17:01	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:01	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Client Sample ID: B-3-S-12'
Date Collected: 06/15/12 11:30
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15194-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/27/12 17:01	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/27/12 17:01	1
Vinyl chloride	ND		5.0		ug/Kg			06/27/12 17:01	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/27/12 17:01	1
Bromochloromethane	ND		5.0		ug/Kg			06/27/12 17:01	1
Bromodichloromethane	ND		2.0		ug/Kg			06/27/12 17:01	1
Dibromochloromethane	ND		2.0		ug/Kg			06/27/12 17:01	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/27/12 17:01	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/27/12 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/12 17:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/27/12 17:01*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 125*		*06/27/12 17:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/21/12 09:38	06/22/12 00:09	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/21/12 09:38	06/22/12 00:09	1
C13-C40	ND		5.0		mg/Kg		06/21/12 09:38	06/22/12 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*40 - 140*	*06/21/12 09:38*	*06/22/12 00:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 19:26	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 19:26	1
C13-C40	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*72*		*40 - 140*	*06/25/12 12:03*	*06/25/12 19:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1221	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1232	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1242	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1248	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1254	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1
Aroclor 1260	ND		50		ug/Kg		06/24/12 14:12	06/25/12 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*06/24/12 14:12*	*06/25/12 22:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**7.8**		2.0		mg/Kg		06/25/12 09:46	06/27/12 18:48	5
Zinc	**37**		5.0		mg/Kg		06/25/12 09:46	06/27/12 18:48	5
Nickel	**71**		2.0		mg/Kg		06/25/12 09:46	06/27/12 18:48	5
Chromium	**71**		1.0		mg/Kg		06/25/12 09:46	06/27/12 18:48	5
Cadmium	ND		0.50		mg/Kg		06/25/12 09:46	06/27/12 18:48	5

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Client Sample ID: B-4-S-12'
Date Collected: 06/15/12 15:20
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15194-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/27/12 17:30	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/27/12 17:30	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:30	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/27/12 17:30	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/27/12 17:30	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:30	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 17:30	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 17:30	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 17:30	1
Benzene	ND		2.0		ug/Kg			06/27/12 17:30	1
Bromobenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
Bromoform	ND		5.0		ug/Kg			06/27/12 17:30	1
Bromomethane	ND		5.0		ug/Kg			06/27/12 17:30	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/27/12 17:30	1
Chlorobenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
Chloroethane	ND		5.0		ug/Kg			06/27/12 17:30	1
Chloroform	ND		2.0		ug/Kg			06/27/12 17:30	1
Chloromethane	ND		5.0		ug/Kg			06/27/12 17:30	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 17:30	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:30	1
Dibromomethane	ND		2.0		ug/Kg			06/27/12 17:30	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/27/12 17:30	1
Ethylbenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/27/12 17:30	1
Isopropylbenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
m,p-Xylene	ND		2.0		ug/Kg			06/27/12 17:30	1
Methylene Chloride	ND		20		ug/Kg			06/27/12 17:30	1
Naphthalene	ND		5.0		ug/Kg			06/27/12 17:30	1
n-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
N-Propylbenzene	ND		2.0		ug/Kg			06/27/12 17:30	1
o-Xylene	ND		2.0		ug/Kg			06/27/12 17:30	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
Styrene	ND		2.0		ug/Kg			06/27/12 17:30	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/27/12 17:30	1
Tetrachloroethene	ND		2.0		ug/Kg			06/27/12 17:30	1
Toluene	ND		2.0		ug/Kg			06/27/12 17:30	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 17:30	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 17:30	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Client Sample ID: B-4-S-12'
Date Collected: 06/15/12 15:20
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15194-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0		ug/Kg			06/27/12 17:30	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/27/12 17:30	1
Vinyl chloride	ND		5.0		ug/Kg			06/27/12 17:30	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/27/12 17:30	1
Bromochloromethane	ND		5.0		ug/Kg			06/27/12 17:30	1
Bromodichloromethane	ND		2.0		ug/Kg			06/27/12 17:30	1
Dibromochloromethane	ND		2.0		ug/Kg			06/27/12 17:30	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/27/12 17:30	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/27/12 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/27/12 17:30*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/27/12 17:30*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 125*		*06/27/12 17:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	**33**		15		mg/Kg		06/21/12 09:38	06/22/12 00:34	1
DRO (C13-C28)	**80**		15		mg/Kg		06/21/12 09:38	06/22/12 00:34	1
C13-C40	**120**		15		mg/Kg		06/21/12 09:38	06/22/12 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*40 - 140*	*06/21/12 09:38*	*06/22/12 00:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		10		mg/Kg		06/25/12 12:03	06/25/12 19:51	1
DRO (C13-C28)	ND		10		mg/Kg		06/25/12 12:03	06/25/12 19:51	1
C13-C40	**14**		10		mg/Kg		06/25/12 12:03	06/25/12 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*40 - 140*	*06/25/12 12:03*	*06/25/12 19:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1221	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1232	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1242	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1248	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1254	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1
Aroclor 1260	ND		50		ug/Kg		06/24/12 14:12	06/26/12 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*06/24/12 14:12*	*06/26/12 08:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.7**		4.0		mg/Kg		06/25/12 09:46	06/29/12 14:42	10
Zinc	**330**		10		mg/Kg		06/25/12 09:46	06/29/12 14:42	10
Nickel	**120**		4.0		mg/Kg		06/25/12 09:46	06/29/12 14:42	10
Chromium	**77**		2.0		mg/Kg		06/25/12 09:46	06/29/12 14:42	10
Cadmium	**1.5**		1.0		mg/Kg		06/25/12 09:46	06/29/12 14:42	10

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Client Sample ID: B-3-S-12'

Lab Sample ID: 440-15194-1

Date Collected: 06/15/12 11:30

Matrix: Solid

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	35411	06/27/12 17:01	TN	TAL IRV
Total/NA	Prep	CA LUFT			30.07 g	1 mL	34337	06/21/12 09:38	TM	TAL IRV
Total/NA	Analysis	8015B		1			34426	06/22/12 00:09		TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			30.06 g	1 mL	34958	06/25/12 12:03	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34936	06/25/12 19:26	ES	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	34843	06/24/12 14:12	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/25/12 22:04	JM	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	34927	06/25/12 09:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			35722	06/27/12 18:48	VS	TAL IRV

Client Sample ID: B-4-S-12'

Lab Sample ID: 440-15194-2

Date Collected: 06/15/12 15:20

Matrix: Solid

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	35411	06/27/12 17:30	TN	TAL IRV
Total/NA	Prep	CA LUFT			10.00 g	1 mL	34337	06/21/12 09:38	TM	TAL IRV
Total/NA	Analysis	8015B		1			34426	06/22/12 00:34		TAL IRV
Silica Gel Cleanup	Prep	CA LUFT			15.06 g	1 mL	34958	06/25/12 12:03	TM	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34936	06/25/12 19:51	ES	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	34843	06/24/12 14:12	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/26/12 08:38	JM	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	34927	06/25/12 09:46	DT	TAL IRV
Total/NA	Analysis	6010B		10			36183	06/29/12 14:42	DP	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

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

Lab Sample ID: MB 440-35411/5
Matrix: Solid
Analysis Batch: 35411

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			06/27/12 08:35	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,1-Dichloroethane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,1-Dichloroethene	ND		5.0		ug/Kg			06/27/12 08:35	1
1,1-Dichloropropene	ND		2.0		ug/Kg			06/27/12 08:35	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
1,2,3-Trichloropropane	ND		10		ug/Kg			06/27/12 08:35	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			06/27/12 08:35	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
1,2-Dichloroethane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
1,3-Dichloropropane	ND		2.0		ug/Kg			06/27/12 08:35	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
2,2-Dichloropropane	ND		2.0		ug/Kg			06/27/12 08:35	1
2-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 08:35	1
4-Chlorotoluene	ND		5.0		ug/Kg			06/27/12 08:35	1
Benzene	ND		2.0		ug/Kg			06/27/12 08:35	1
Bromobenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
Bromoform	ND		5.0		ug/Kg			06/27/12 08:35	1
Bromomethane	ND		5.0		ug/Kg			06/27/12 08:35	1
Carbon tetrachloride	ND		5.0		ug/Kg			06/27/12 08:35	1
Chlorobenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
Chloroethane	ND		5.0		ug/Kg			06/27/12 08:35	1
Chloroform	ND		2.0		ug/Kg			06/27/12 08:35	1
Chloromethane	ND		5.0		ug/Kg			06/27/12 08:35	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 08:35	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 08:35	1
Dibromomethane	ND		2.0		ug/Kg			06/27/12 08:35	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			06/27/12 08:35	1
Ethylbenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
Hexachlorobutadiene	ND		5.0		ug/Kg			06/27/12 08:35	1
Isopropylbenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
m,p-Xylene	ND		2.0		ug/Kg			06/27/12 08:35	1
Methylene Chloride	ND		20		ug/Kg			06/27/12 08:35	1
Naphthalene	ND		5.0		ug/Kg			06/27/12 08:35	1
n-Butylbenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
N-Propylbenzene	ND		2.0		ug/Kg			06/27/12 08:35	1
o-Xylene	ND		2.0		ug/Kg			06/27/12 08:35	1
sec-Butylbenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
Styrene	ND		2.0		ug/Kg			06/27/12 08:35	1
tert-Butylbenzene	ND		5.0		ug/Kg			06/27/12 08:35	1
Tetrachloroethene	ND		2.0		ug/Kg			06/27/12 08:35	1
Toluene	ND		2.0		ug/Kg			06/27/12 08:35	1

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

Lab Sample ID: MB 440-35411/5
Matrix: Solid
Analysis Batch: 35411

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			06/27/12 08:35	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			06/27/12 08:35	1
Trichloroethene	ND		2.0		ug/Kg			06/27/12 08:35	1
Trichlorofluoromethane	ND		5.0		ug/Kg			06/27/12 08:35	1
Vinyl chloride	ND		5.0		ug/Kg			06/27/12 08:35	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			06/27/12 08:35	1
Bromochloromethane	ND		5.0		ug/Kg			06/27/12 08:35	1
Bromodichloromethane	ND		2.0		ug/Kg			06/27/12 08:35	1
Dibromochloromethane	ND		2.0		ug/Kg			06/27/12 08:35	1
p-Isopropyltoluene	ND		2.0		ug/Kg			06/27/12 08:35	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			06/27/12 08:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/27/12 08:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/27/12 08:35*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 125*		*06/27/12 08:35*	*1*

Lab Sample ID: LCS 440-35411/4
Matrix: Solid
Analysis Batch: 35411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/Kg		105	70 - 130
1,1,1-Trichloroethane	50.0	52.5		ug/Kg		105	65 - 135
1,1,2,2-Tetrachloroethane	50.0	56.5		ug/Kg		113	55 - 140
1,1,2-Trichloroethane	50.0	53.5		ug/Kg		107	65 - 135
1,1-Dichloroethane	50.0	54.4		ug/Kg		109	70 - 130
1,1-Dichloroethene	50.0	57.4		ug/Kg		115	70 - 125
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 130
1,2,3-Trichlorobenzene	50.0	49.7		ug/Kg		99	60 - 130
1,2,3-Trichloropropane	50.0	52.8		ug/Kg		106	60 - 135
1,2,4-Trichlorobenzene	50.0	52.7		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	57.4		ug/Kg		115	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	62.5		ug/Kg		125	50 - 135
1,2-Dichlorobenzene	50.0	54.1		ug/Kg		108	75 - 120
1,2-Dichloroethane	50.0	54.6		ug/Kg		109	60 - 140
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	56.2		ug/Kg		112	70 - 125
1,3-Dichlorobenzene	50.0	54.3		ug/Kg		109	75 - 125
1,3-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 125
1,4-Dichlorobenzene	50.0	53.7		ug/Kg		107	75 - 120
2,2-Dichloropropane	50.0	52.8		ug/Kg		106	60 - 145
2-Chlorotoluene	50.0	53.6		ug/Kg		107	70 - 125
4-Chlorotoluene	50.0	53.7		ug/Kg		107	75 - 125
Benzene	50.0	55.7		ug/Kg		111	65 - 120
Bromobenzene	50.0	54.9		ug/Kg		110	75 - 120
Bromoform	50.0	48.7		ug/Kg		97	55 - 135
Bromomethane	50.0	53.8		ug/Kg		108	60 - 145
Carbon tetrachloride	50.0	52.8		ug/Kg		106	65 - 140

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

Lab Sample ID: LCS 440-35411/4
Matrix: Solid
Analysis Batch: 35411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	50.0	51.2		ug/Kg		102	75 - 120
Chloroethane	50.0	52.4		ug/Kg		105	60 - 140
Chloroform	50.0	54.4		ug/Kg		109	70 - 130
Chloromethane	50.0	52.3		ug/Kg		105	45 - 145
cis-1,2-Dichloroethene	50.0	58.3		ug/Kg		117	70 - 125
cis-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	75 - 125
Dibromomethane	50.0	55.6		ug/Kg		111	70 - 130
Dichlorodifluoromethane	50.0	55.2		ug/Kg		110	35 - 160
Ethylbenzene	50.0	53.2		ug/Kg		106	70 - 125
Hexachlorobutadiene	50.0	47.6		ug/Kg		95	60 - 135
Isopropylbenzene	50.0	52.1		ug/Kg		104	75 - 130
m,p-Xylene	100	102		ug/Kg		102	70 - 125
Methylene Chloride	50.0	53.6		ug/Kg		107	55 - 135
Naphthalene	50.0	51.5		ug/Kg		103	55 - 135
n-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 130
N-Propylbenzene	50.0	52.6		ug/Kg		105	70 - 130
o-Xylene	50.0	51.8		ug/Kg		104	70 - 125
sec-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 125
Styrene	50.0	54.6		ug/Kg		109	75 - 130
tert-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 125
Tetrachloroethene	50.0	50.9		ug/Kg		102	70 - 125
Toluene	50.0	56.5		ug/Kg		113	70 - 125
trans-1,2-Dichloroethene	50.0	55.9		ug/Kg		112	70 - 125
trans-1,3-Dichloropropene	50.0	58.3		ug/Kg		117	70 - 135
Trichloroethene	50.0	52.4		ug/Kg		105	70 - 125
Trichlorofluoromethane	50.0	52.8		ug/Kg		106	60 - 145
Vinyl chloride	50.0	52.7		ug/Kg		105	55 - 135
1,2-Dibromoethane (EDB)	50.0	54.1		ug/Kg		108	70 - 130
Bromochloromethane	50.0	57.8		ug/Kg		116	70 - 135
Bromodichloromethane	50.0	56.7		ug/Kg		113	70 - 135
Dibromochloromethane	50.0	55.3		ug/Kg		111	65 - 140
p-Isopropyltoluene	50.0	52.9		ug/Kg		106	75 - 125
Methyl-t-Butyl Ether (MTBE)	50.0	53.4		ug/Kg		107	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 125*

Lab Sample ID: 440-14885-A-1 MS
Matrix: Solid
Analysis Batch: 35411

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		47.6	52.5		ug/Kg		110	65 - 145
1,1,1-Trichloroethane	ND		47.6	51.1		ug/Kg		107	65 - 145
1,1,2,2-Tetrachloroethane	ND		47.6	56.3		ug/Kg		118	40 - 160
1,1,2-Trichloroethane	ND		47.6	53.2		ug/Kg		112	65 - 140
1,1-Dichloroethane	ND		47.6	50.5		ug/Kg		106	65 - 135

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

Lab Sample ID: 440-14885-A-1 MS
Matrix: Solid
Analysis Batch: 35411

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		47.6	54.2		ug/Kg		114	65 - 135
1,1-Dichloropropene	ND		47.6	50.4		ug/Kg		106	65 - 135
1,2,3-Trichlorobenzene	ND		47.6	45.9		ug/Kg		96	45 - 145
1,2,3-Trichloropropane	ND		47.6	54.8		ug/Kg		115	50 - 150
1,2,4-Trichlorobenzene	ND		47.6	49.3		ug/Kg		103	50 - 140
1,2,4-Trimethylbenzene	ND		47.6	55.2		ug/Kg		113	65 - 140
1,2-Dibromo-3-Chloropropane	ND		47.6	67.4		ug/Kg		141	40 - 150
1,2-Dichlorobenzene	ND		47.6	52.2		ug/Kg		110	70 - 130
1,2-Dichloroethane	ND		47.6	54.3		ug/Kg		114	60 - 150
1,2-Dichloropropane	ND		47.6	50.8		ug/Kg		107	65 - 130
1,3,5-Trimethylbenzene	ND		47.6	53.5		ug/Kg		112	65 - 135
1,3-Dichlorobenzene	ND		47.6	53.0		ug/Kg		111	70 - 130
1,3-Dichloropropane	ND		47.6	53.7		ug/Kg		113	65 - 140
1,4-Dichlorobenzene	ND		47.6	52.4		ug/Kg		110	70 - 130
2,2-Dichloropropane	ND		47.6	54.7		ug/Kg		115	65 - 150
2-Chlorotoluene	ND		47.6	52.0		ug/Kg		109	60 - 135
4-Chlorotoluene	ND		47.6	52.5		ug/Kg		110	65 - 135
Benzene	ND		47.6	52.6		ug/Kg		110	65 - 130
Bromobenzene	ND		47.6	53.3		ug/Kg		112	65 - 140
Bromoform	ND		47.6	49.5		ug/Kg		104	50 - 145
Bromomethane	ND		47.6	45.0		ug/Kg		95	60 - 155
Carbon tetrachloride	ND		47.6	53.7		ug/Kg		113	60 - 145
Chlorobenzene	ND		47.6	51.7		ug/Kg		108	70 - 130
Chloroethane	ND		47.6	45.6		ug/Kg		96	60 - 150
Chloroform	ND		47.6	50.1		ug/Kg		105	65 - 135
Chloromethane	ND		47.6	40.0		ug/Kg		84	40 - 145
cis-1,2-Dichloroethene	ND		47.6	53.6		ug/Kg		113	65 - 135
cis-1,3-Dichloropropene	ND		47.6	51.2		ug/Kg		107	70 - 135
Dibromomethane	ND		47.6	54.0		ug/Kg		113	65 - 140
Dichlorodifluoromethane	ND		47.6	34.8		ug/Kg		73	30 - 160
Ethylbenzene	ND		47.6	53.5		ug/Kg		112	70 - 135
Hexachlorobutadiene	ND		47.6	35.2		ug/Kg		74	50 - 145
Isopropylbenzene	ND		47.6	51.6		ug/Kg		108	70 - 145
m,p-Xylene	ND		95.2	104		ug/Kg		110	70 - 130
Methylene Chloride	ND		47.6	49.9		ug/Kg		105	55 - 145
Naphthalene	ND		47.6	51.6		ug/Kg		104	40 - 150
n-Butylbenzene	ND		47.6	47.7		ug/Kg		100	55 - 145
N-Propylbenzene	ND		47.6	51.3		ug/Kg		108	65 - 140
o-Xylene	ND		47.6	52.6		ug/Kg		110	65 - 130
sec-Butylbenzene	ND		47.6	50.5		ug/Kg		106	60 - 135
Styrene	ND		47.6	54.8		ug/Kg		115	70 - 140
tert-Butylbenzene	ND		47.6	51.3		ug/Kg		108	60 - 140
Tetrachloroethene	ND		47.6	51.6		ug/Kg		108	65 - 135
Toluene	ND		47.6	54.2		ug/Kg		114	70 - 130
trans-1,2-Dichloroethene	ND		47.6	52.8		ug/Kg		111	70 - 135
trans-1,3-Dichloropropene	ND		47.6	60.2		ug/Kg		126	60 - 145
Trichloroethene	ND		47.6	54.5		ug/Kg		115	65 - 140
Trichlorofluoromethane	ND		47.6	49.6		ug/Kg		104	55 - 155
Vinyl chloride	ND		47.6	43.5		ug/Kg		91	55 - 140
1,2-Dibromoethane (EDB)	ND		47.6	54.4		ug/Kg		114	65 - 140

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

Lab Sample ID: 440-14885-A-1 MS
Matrix: Solid
Analysis Batch: 35411

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	ND		47.6	53.9		ug/Kg		113	65 - 145
Bromodichloromethane	ND		47.6	54.0		ug/Kg		113	65 - 145
Dibromochloromethane	ND		47.6	54.5		ug/Kg		114	60 - 145
p-Isopropyltoluene	ND		47.6	49.6		ug/Kg		104	60 - 140
Methyl-t-Butyl Ether (MTBE)	ND		47.6	55.3		ug/Kg		116	55 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 125*

Lab Sample ID: 440-14885-A-1 MSD
Matrix: Solid
Analysis Batch: 35411

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		48.4	48.8		ug/Kg		101	65 - 145	7	20
1,1,1-Trichloroethane	ND		48.4	47.9		ug/Kg		99	65 - 145	7	20
1,1,2,2-Tetrachloroethane	ND		48.4	52.7		ug/Kg		109	40 - 160	7	30
1,1,2-Trichloroethane	ND		48.4	50.8		ug/Kg		105	65 - 140	5	30
1,1-Dichloroethane	ND		48.4	47.7		ug/Kg		99	65 - 135	6	25
1,1-Dichloroethene	ND		48.4	51.5		ug/Kg		107	65 - 135	5	25
1,1-Dichloropropene	ND		48.4	47.9		ug/Kg		99	65 - 135	5	20
1,2,3-Trichlorobenzene	ND		48.4	45.2		ug/Kg		94	45 - 145	1	30
1,2,3-Trichloropropane	ND		48.4	52.0		ug/Kg		107	50 - 150	5	30
1,2,4-Trichlorobenzene	ND		48.4	48.0		ug/Kg		99	50 - 140	3	30
1,2,4-Trimethylbenzene	ND		48.4	52.5		ug/Kg		106	65 - 140	5	25
1,2-Dibromo-3-Chloropropane	ND		48.4	65.9		ug/Kg		136	40 - 150	2	30
1,2-Dichlorobenzene	ND		48.4	49.7		ug/Kg		103	70 - 130	5	25
1,2-Dichloroethane	ND		48.4	51.7		ug/Kg		107	60 - 150	5	25
1,2-Dichloropropane	ND		48.4	50.2		ug/Kg		104	65 - 130	1	20
1,3,5-Trimethylbenzene	ND		48.4	51.0		ug/Kg		106	65 - 135	5	25
1,3-Dichlorobenzene	ND		48.4	49.8		ug/Kg		103	70 - 130	6	25
1,3-Dichloropropane	ND		48.4	48.9		ug/Kg		101	65 - 140	9	25
1,4-Dichlorobenzene	ND		48.4	49.3		ug/Kg		102	70 - 130	6	25
2,2-Dichloropropane	ND		48.4	49.9		ug/Kg		103	65 - 150	9	25
2-Chlorotoluene	ND		48.4	49.3		ug/Kg		102	60 - 135	5	25
4-Chlorotoluene	ND		48.4	49.8		ug/Kg		103	65 - 135	5	25
Benzene	ND		48.4	51.2		ug/Kg		106	65 - 130	3	20
Bromobenzene	ND		48.4	50.8		ug/Kg		105	65 - 140	5	25
Bromoform	ND		48.4	44.4		ug/Kg		92	50 - 145	11	30
Bromomethane	ND		48.4	42.6		ug/Kg		88	60 - 155	6	25
Carbon tetrachloride	ND		48.4	50.9		ug/Kg		105	60 - 145	5	25
Chlorobenzene	ND		48.4	47.4		ug/Kg		98	70 - 130	9	25
Chloroethane	ND		48.4	42.6		ug/Kg		88	60 - 150	7	25
Chloroform	ND		48.4	47.3		ug/Kg		98	65 - 135	6	20
Chloromethane	ND		48.4	38.1		ug/Kg		79	40 - 145	5	25
cis-1,2-Dichloroethene	ND		48.4	50.5		ug/Kg		105	65 - 135	6	25
cis-1,3-Dichloropropene	ND		48.4	48.1		ug/Kg		99	70 - 135	6	25

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

Lab Sample ID: 440-14885-A-1 MSD
Matrix: Solid
Analysis Batch: 35411

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromomethane	ND		48.4	52.0		ug/Kg		108	65 - 140	4	25
Dichlorodifluoromethane	ND		48.4	32.8		ug/Kg		68	30 - 160	6	35
Ethylbenzene	ND		48.4	50.2		ug/Kg		104	70 - 135	6	25
Hexachlorobutadiene	ND		48.4	32.9		ug/Kg		68	50 - 145	7	35
Isopropylbenzene	ND		48.4	49.5		ug/Kg		102	70 - 145	4	25
m,p-Xylene	ND		96.7	96.9		ug/Kg		100	70 - 130	7	25
Methylene Chloride	ND		48.4	47.4		ug/Kg		98	55 - 145	5	25
Naphthalene	ND		48.4	52.1		ug/Kg		104	40 - 150	1	40
n-Butylbenzene	ND		48.4	43.9		ug/Kg		91	55 - 145	8	30
N-Propylbenzene	ND		48.4	49.0		ug/Kg		101	65 - 140	5	25
o-Xylene	ND		48.4	48.5		ug/Kg		100	65 - 130	8	25
sec-Butylbenzene	ND		48.4	46.6		ug/Kg		96	60 - 135	8	25
Styrene	ND		48.4	49.8		ug/Kg		103	70 - 140	9	25
tert-Butylbenzene	ND		48.4	48.7		ug/Kg		101	60 - 140	5	25
Tetrachloroethene	ND		48.4	46.4		ug/Kg		96	65 - 135	11	25
Toluene	ND		48.4	51.9		ug/Kg		107	70 - 130	4	20
trans-1,2-Dichloroethene	ND		48.4	50.3		ug/Kg		104	70 - 135	5	25
trans-1,3-Dichloropropene	ND		48.4	56.8		ug/Kg		117	60 - 145	6	25
Trichloroethene	ND		48.4	52.9		ug/Kg		109	65 - 140	3	25
Trichlorofluoromethane	ND		48.4	47.6		ug/Kg		99	55 - 155	4	25
Vinyl chloride	ND		48.4	40.4		ug/Kg		84	55 - 140	7	30
1,2-Dibromoethane (EDB)	ND		48.4	50.0		ug/Kg		103	65 - 140	9	25
Bromochloromethane	ND		48.4	51.2		ug/Kg		106	65 - 145	5	25
Bromodichloromethane	ND		48.4	51.7		ug/Kg		107	65 - 145	4	20
Dibromochloromethane	ND		48.4	50.8		ug/Kg		105	60 - 145	7	25
p-Isopropyltoluene	ND		48.4	46.4		ug/Kg		96	60 - 140	7	25
Methyl-t-Butyl Ether (MTBE)	ND		48.4	50.6		ug/Kg		105	55 - 155	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 125*

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

Lab Sample ID: MB 440-34337/1-A
Matrix: Solid
Analysis Batch: 34426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/21/12 09:38	06/21/12 13:42	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/21/12 09:38	06/21/12 13:42	1
C13-C40	ND		5.0		mg/Kg		06/21/12 09:38	06/21/12 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*40 - 140*	*06/21/12 09:38*	*06/21/12 13:42*	*1*

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

Lab Sample ID: LCS 440-34337/2-A
Matrix: Solid
Analysis Batch: 34426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34337

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)			33.3	26.1		mg/Kg		78	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*76*		*40 - 140*

Lab Sample ID: 440-15146-E-6-B MS
Matrix: Solid
Analysis Batch: 34426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)	ND		33.3	27.4		mg/Kg		82	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*79*		*40 - 140*

Lab Sample ID: 440-15146-E-6-C MSD
Matrix: Solid
Analysis Batch: 34426

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 34337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EFH (C10-C28)	ND		33.3	27.2		mg/Kg		82	40 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*80*		*40 - 140*

Lab Sample ID: MB 440-34958/1-A
Matrix: Solid
Analysis Batch: 34936

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 34958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C29-C40)	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 17:50	1
DRO (C13-C28)	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 17:50	1
C13-C40	ND		5.0		mg/Kg		06/25/12 12:03	06/25/12 17:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*40 - 140*	*06/25/12 12:03*	*06/25/12 17:50*	*1*

Lab Sample ID: LCS 440-34958/2-A
Matrix: Solid
Analysis Batch: 34936

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 34958

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
EFH (C10-C28)			33.3	23.3		mg/Kg		70	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*75*		*40 - 140*

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

Lab Sample ID: 440-15194-1 MS
Matrix: Solid
Analysis Batch: 34936

Client Sample ID: B-3-S-12'
Prep Type: Silica Gel Cleanup
Prep Batch: 34958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
EFH (C10-C28)	ND		33.3	23.5		mg/Kg		71	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*78*		*40 - 140*

Lab Sample ID: 440-15194-1 MSD
Matrix: Solid
Analysis Batch: 34936

Client Sample ID: B-3-S-12'
Prep Type: Silica Gel Cleanup
Prep Batch: 34958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EFH (C10-C28)	ND		33.3	21.6		mg/Kg		65	40 - 120	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*71*		*40 - 140*

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

Lab Sample ID: MB 440-34843/1-A
Matrix: Solid
Analysis Batch: 34988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1221	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1232	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1242	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1248	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1254	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1
Aroclor 1260	ND		50		ug/Kg		06/24/12 14:12	06/26/12 07:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*06/24/12 14:12*	*06/26/12 07:33*	*1*

Lab Sample ID: LCS 440-34843/5-A
Matrix: Solid
Analysis Batch: 34988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	298		ug/Kg		112	65 - 115
Aroclor 1260			267	262		ug/Kg		98	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*

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

Lab Sample ID: 440-15317-G-4-C MS
Matrix: Solid
Analysis Batch: 34988

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		267	240		ug/Kg		90	50 - 120
Aroclor 1260	ND		267	208		ug/Kg		78	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*

Lab Sample ID: 440-15317-G-4-D MSD
Matrix: Solid
Analysis Batch: 34988

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 34843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		267	235		ug/Kg		88	50 - 120	2	30
Aroclor 1260	ND		267	197		ug/Kg		74	50 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-34927/1-A ^5
Matrix: Solid
Analysis Batch: 35722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0		mg/Kg		06/25/12 09:46	06/27/12 17:52	5
Zinc	ND		5.0		mg/Kg		06/25/12 09:46	06/27/12 17:52	5
Nickel	ND		2.0		mg/Kg		06/25/12 09:46	06/27/12 17:52	5
Chromium	ND		1.0		mg/Kg		06/25/12 09:46	06/27/12 17:52	5
Cadmium	ND		0.50		mg/Kg		06/25/12 09:46	06/27/12 17:52	5

Lab Sample ID: LCS 440-34927/2-A ^5
Matrix: Solid
Analysis Batch: 35722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.9		mg/Kg		100	80 - 120
Chromium	50.0	50.4		mg/Kg		101	80 - 120
Cadmium	50.0	49.9		mg/Kg		100	80 - 120

Lab Sample ID: 440-15146-E-2-F MS ^5
Matrix: Solid
Analysis Batch: 35722

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	4.5		49.3	53.8		mg/Kg		100	75 - 125
Zinc	15		49.3	63.8		mg/Kg		99	75 - 125
Nickel	6.1		49.3	55.5		mg/Kg		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-15146-E-2-F MS ^5
Matrix: Solid
Analysis Batch: 35722

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	12		49.3	64.7		mg/Kg		108	75 - 125
Cadmium	ND		49.3	48.7		mg/Kg		98	75 - 125

Lab Sample ID: 440-15146-E-2-G MSD ^5
Matrix: Solid
Analysis Batch: 35722

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 34927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	4.5		49.8	52.1		mg/Kg		96	75 - 125	3	20
Zinc	15		49.8	63.0		mg/Kg		97	75 - 125	1	20
Nickel	6.1		49.8	54.2		mg/Kg		97	75 - 125	2	20
Chromium	12		49.8	61.1		mg/Kg		99	75 - 125	6	20
Cadmium	ND		49.8	48.1		mg/Kg		96	75 - 125	1	20

GC/MS VOA

Analysis Batch: 35411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14885-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-14885-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-15194-1	B-3-S-12'	Total/NA	Solid	8260B	
440-15194-2	B-4-S-12'	Total/NA	Solid	8260B	
LCS 440-35411/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-35411/5	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 34337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15146-E-6-B MS	Matrix Spike	Total/NA	Solid	CA LUFT	
440-15146-E-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	CA LUFT	
440-15194-1	B-3-S-12'	Total/NA	Solid	CA LUFT	
440-15194-2	B-4-S-12'	Total/NA	Solid	CA LUFT	
LCS 440-34337/2-A	Lab Control Sample	Total/NA	Solid	CA LUFT	
MB 440-34337/1-A	Method Blank	Total/NA	Solid	CA LUFT	

Analysis Batch: 34426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15146-E-6-B MS	Matrix Spike	Total/NA	Solid	8015B	34337
440-15146-E-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	34337
440-15194-1	B-3-S-12'	Total/NA	Solid	8015B	34337
440-15194-2	B-4-S-12'	Total/NA	Solid	8015B	34337
LCS 440-34337/2-A	Lab Control Sample	Total/NA	Solid	8015B	34337
MB 440-34337/1-A	Method Blank	Total/NA	Solid	8015B	34337

Prep Batch: 34843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15194-1	B-3-S-12'	Total/NA	Solid	3546	
440-15194-2	B-4-S-12'	Total/NA	Solid	3546	
440-15317-G-4-C MS	Matrix Spike	Total/NA	Solid	3546	
440-15317-G-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-34843/5-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-34843/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 34936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15194-1	B-3-S-12'	Silica Gel Cleanup	Solid	8015B	34958
440-15194-1 MS	B-3-S-12'	Silica Gel Cleanup	Solid	8015B	34958
440-15194-1 MSD	B-3-S-12'	Silica Gel Cleanup	Solid	8015B	34958
440-15194-2	B-4-S-12'	Silica Gel Cleanup	Solid	8015B	34958
LCS 440-34958/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	34958
MB 440-34958/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	34958

Prep Batch: 34958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15194-1	B-3-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
440-15194-1 MS	B-3-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
440-15194-1 MSD	B-3-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
440-15194-2	B-4-S-12'	Silica Gel Cleanup	Solid	CA LUFT	
LCS 440-34958/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	CA LUFT	

GC Semi VOA (Continued)

Prep Batch: 34958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-34958/1-A	Method Blank	Silica Gel Cleanup	Solid	CA LUFT	

Analysis Batch: 34988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15194-1	B-3-S-12'	Total/NA	Solid	8082	34843
440-15194-2	B-4-S-12'	Total/NA	Solid	8082	34843
440-15317-G-4-C MS	Matrix Spike	Total/NA	Solid	8082	34843
440-15317-G-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	34843
LCS 440-34843/5-A	Lab Control Sample	Total/NA	Solid	8082	34843
MB 440-34843/1-A	Method Blank	Total/NA	Solid	8082	34843

Metals

Prep Batch: 34927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15146-E-2-F MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-15146-E-2-G MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-15194-1	B-3-S-12'	Total/NA	Solid	3050B	
440-15194-2	B-4-S-12'	Total/NA	Solid	3050B	
LCS 440-34927/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-34927/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 35722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15146-E-2-F MS ^5	Matrix Spike	Total/NA	Solid	6010B	34927
440-15146-E-2-G MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	34927
440-15194-1	B-3-S-12'	Total/NA	Solid	6010B	34927
LCS 440-34927/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	34927
MB 440-34927/1-A ^5	Method Blank	Total/NA	Solid	6010B	34927

Analysis Batch: 36183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15194-2	B-4-S-12'	Total/NA	Solid	6010B	34927

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15194-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

440-15194 138931

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013 (0911)

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Temp. 7.9, 1.9, 3.6°C

Client Name/Address: ARCADIS / 320 Commerce, Suite 200 Irvine, CA 92602

Project/PO Number: B0060901.9708

Project Manager: Toni DeMayo

Phone Number: 714.508.2657

Sampler: LK/BW

Fax Number: 714.730.9345

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	TPH-MO (8015M)	TPH-DRO (8015B) w/ silica gel cleanup	TPH-DRO (8015B)	BTEX + MTBE (8260B)	cadmium, chromium, lead, nickel, zinc (6010B)	Halogenated VOCs (8260B)	PCBs (8082)	TPH-MO (8015M) w/ silica gel cleanup		Special Instructions
B-3-S-12'	S	sleeve	1	6/15/12	1130	—	X	X	X	X	X	X	X	X		
B-4-S-12'	S	sleeve	1	6/15/12	1520	—	X	X	X	X	X	X	X	X		

TS 6/20/12 21:25

Relinquished By: [signature]	Date/Time: 6/15/12 1834	Received By: [signature]	Date/Time: 6/15/12 1834
Relinquished By: [signature]	Date/Time: 6-19-12 17:06	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By: Elizabeth [signature]	Date/Time: 6/20/12 9:40

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice X ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days. 5.4°C

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 440-15194-1

Login Number: 15194

List Source: TestAmerica Irvine

List Number: 1

Creator: Perez, Angel

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-14914-1
Client Project/Site: Chevron - 9-9708

For:
ARCADIS U.S., Inc.
3240 El Camino Real
Suite 200
Irvine, California 92602

Attn: Toni DeMayo

Authorized for release by:
7/4/2012 2:26:05 PM

Sushmitha Reddy
Project Manager I
sushmitha.reddy@testamericainc.com

Table of Contents

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-14914-1	B-1-W-20120614	Water	06/14/12 11:15	06/16/12 10:30

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Job ID: 440-14914-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-14914-1

Comments
No additional comments.

Receipt
The sample was received on 6/16/2012 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was received with headspace in the sample vial, only one VOA Vial is provided : (440-15425-1 MS), (440-15425-1 MSD), CT-12 (440-15425-1).

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 34062. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8082: The continuing calibration verification (CCV) for analytical batch 33546 exceeded control criteria for 1016/1260.Analyte not detected, data not impacted. Affected samples are: (CCV 440-33546/31), B-1-W-20120614 (440-14914-1)

Method(s) 8082: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with 33558. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: B-1-W-20120614 (440-14914-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Client Sample ID: B-1-W-20120614
Date Collected: 06/14/12 11:15
Date Received: 06/16/12 10:30

Lab Sample ID: 440-14914-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,1-Dichloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,1-Dichloroethene	ND		0.50		ug/L			06/28/12 02:49	1
1,1-Dichloropropene	ND		0.50		ug/L			06/28/12 02:49	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/28/12 02:49	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/28/12 02:49	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/28/12 02:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,2-Dichloroethane	ND		0.50		ug/L			06/28/12 02:49	1
1,2-Dichloropropane	ND		0.50		ug/L			06/28/12 02:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
1,3-Dichloropropane	ND		0.50		ug/L			06/28/12 02:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
2,2-Dichloropropane	ND		0.50		ug/L			06/28/12 02:49	1
2-Chlorotoluene	ND		0.50		ug/L			06/28/12 02:49	1
4-Chlorotoluene	ND		0.50		ug/L			06/28/12 02:49	1
Benzene	ND		0.50		ug/L			06/28/12 02:49	1
Bromobenzene	ND		0.50		ug/L			06/28/12 02:49	1
Bromochloromethane	ND		0.50		ug/L			06/28/12 02:49	1
Bromodichloromethane	ND		0.50		ug/L			06/28/12 02:49	1
Bromoform	ND		0.50		ug/L			06/28/12 02:49	1
Bromomethane	ND		0.50		ug/L			06/28/12 02:49	1
Carbon tetrachloride	ND		0.50		ug/L			06/28/12 02:49	1
Chlorobenzene	ND		0.50		ug/L			06/28/12 02:49	1
Chloroethane	ND		0.50		ug/L			06/28/12 02:49	1
Chloroform	**1.2**		0.50		ug/L			06/28/12 02:49	1
Chloromethane	ND		0.50		ug/L			06/28/12 02:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/28/12 02:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/28/12 02:49	1
Dibromochloromethane	ND		0.50		ug/L			06/28/12 02:49	1
Dibromomethane	ND		0.50		ug/L			06/28/12 02:49	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/28/12 02:49	1
Ethylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
Hexachlorobutadiene	ND		0.50		ug/L			06/28/12 02:49	1
Isopropylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
m,p-Xylene	ND		1.0		ug/L			06/28/12 02:49	1
Methylene Chloride	ND		1.0		ug/L			06/28/12 02:49	1
Naphthalene	ND		0.50		ug/L			06/28/12 02:49	1
n-Butylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
N-Propylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
o-Xylene	ND		0.50		ug/L			06/28/12 02:49	1
p-Isopropyltoluene	ND		0.50		ug/L			06/28/12 02:49	1
Styrene	ND		0.50		ug/L			06/28/12 02:49	1
sec-Butylbenzene	ND		0.50		ug/L			06/28/12 02:49	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Client Sample ID: B-1-W-20120614
Date Collected: 06/14/12 11:15
Date Received: 06/16/12 10:30

Lab Sample ID: 440-14914-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.50		ug/L			06/28/12 02:49	1
Tetrachloroethene	ND		0.50		ug/L			06/28/12 02:49	1
Toluene	ND		0.50		ug/L			06/28/12 02:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/28/12 02:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/28/12 02:49	1
Trichloroethene	ND		0.50		ug/L			06/28/12 02:49	1
Trichlorofluoromethane	ND		0.50		ug/L			06/28/12 02:49	1
Vinyl chloride	ND		0.50		ug/L			06/28/12 02:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/28/12 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*06/28/12 02:49*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*06/28/12 02:49*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/28/12 02:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**0.96**		0.051		mg/L		06/20/12 16:48	06/22/12 16:47	1
C29-C40	**0.71**		0.051		mg/L		06/20/12 16:48	06/22/12 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*45 - 120*	*06/20/12 16:48*	*06/22/12 16:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.48		mg/L		06/20/12 12:14	06/21/12 09:57	1
C29-C40	ND		0.48		mg/L		06/20/12 12:14	06/21/12 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*45 - 120*	*06/20/12 12:14*	*06/21/12 09:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1221	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1232	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1242	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1248	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1254	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1
Aroclor 1260	ND		0.97		ug/L		06/18/12 14:49	06/18/12 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*06/18/12 14:49*	*06/18/12 19:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.022**		0.010		mg/L		06/22/12 12:38	06/23/12 16:18	2
Zinc	**0.46**		0.040		mg/L		06/22/12 12:38	06/23/12 16:18	2
Nickel	**0.89**		0.020		mg/L		06/22/12 12:38	06/23/12 16:18	2
Chromium	**0.39**		0.010		mg/L		06/22/12 12:38	06/23/12 16:18	2
Cadmium	ND		0.010		mg/L		06/22/12 12:38	06/23/12 16:18	2

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Client Sample ID: B-1-W-20120614
Date Collected: 06/14/12 11:15
Date Received: 06/16/12 10:30

Lab Sample ID: 440-14914-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35599	06/28/12 02:49	RM	TAL IRV
Total/NA	Prep	3510C			1030 mL	2 mL	33558	06/18/12 14:49	AB	TAL IRV
Total/NA	Analysis	8082		1			33546	06/18/12 19:38	JM	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1040 mL	1 mL	34062	06/20/12 12:14	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34194	06/21/12 09:57		TAL IRV
Total/NA	Prep	3510C			990 mL	1 mL	34182	06/20/12 16:48	AB	TAL IRV
Total/NA	Analysis	8015B		1			34703	06/22/12 16:47		TAL IRV
Total Recoverable	Prep	3005A			50 mL	50 mL	34617	06/22/12 12:38	SC	TAL IRV
Total Recoverable	Analysis	6010B		2			34916	06/23/12 16:18	FR	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

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

Lab Sample ID: MB 440-35599/3
Matrix: Water
Analysis Batch: 35599

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,1-Dichloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,1-Dichloroethene	ND		0.50		ug/L			06/27/12 18:59	1
1,1-Dichloropropene	ND		0.50		ug/L			06/27/12 18:59	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/27/12 18:59	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			06/27/12 18:59	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/27/12 18:59	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,2-Dichloroethane	ND		0.50		ug/L			06/27/12 18:59	1
1,2-Dichloropropane	ND		0.50		ug/L			06/27/12 18:59	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
1,3-Dichloropropane	ND		0.50		ug/L			06/27/12 18:59	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
2,2-Dichloropropane	ND		0.50		ug/L			06/27/12 18:59	1
2-Chlorotoluene	ND		0.50		ug/L			06/27/12 18:59	1
4-Chlorotoluene	ND		0.50		ug/L			06/27/12 18:59	1
Benzene	ND		0.50		ug/L			06/27/12 18:59	1
Bromobenzene	ND		0.50		ug/L			06/27/12 18:59	1
Bromochloromethane	ND		0.50		ug/L			06/27/12 18:59	1
Bromodichloromethane	ND		0.50		ug/L			06/27/12 18:59	1
Bromoform	ND		0.50		ug/L			06/27/12 18:59	1
Bromomethane	ND		0.50		ug/L			06/27/12 18:59	1
Carbon tetrachloride	ND		0.50		ug/L			06/27/12 18:59	1
Chlorobenzene	ND		0.50		ug/L			06/27/12 18:59	1
Chloroethane	ND		0.50		ug/L			06/27/12 18:59	1
Chloroform	ND		0.50		ug/L			06/27/12 18:59	1
Chloromethane	ND		0.50		ug/L			06/27/12 18:59	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/27/12 18:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/27/12 18:59	1
Dibromochloromethane	ND		0.50		ug/L			06/27/12 18:59	1
Dibromomethane	ND		0.50		ug/L			06/27/12 18:59	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/27/12 18:59	1
Ethylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
Hexachlorobutadiene	ND		0.50		ug/L			06/27/12 18:59	1
Isopropylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
m,p-Xylene	ND		1.0		ug/L			06/27/12 18:59	1
Methylene Chloride	ND		1.0		ug/L			06/27/12 18:59	1
Naphthalene	ND		0.50		ug/L			06/27/12 18:59	1
n-Butylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
N-Propylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
o-Xylene	ND		0.50		ug/L			06/27/12 18:59	1
p-Isopropyltoluene	ND		0.50		ug/L			06/27/12 18:59	1

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

Lab Sample ID: MB 440-35599/3
Matrix: Water
Analysis Batch: 35599

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50		ug/L			06/27/12 18:59	1
sec-Butylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
tert-Butylbenzene	ND		0.50		ug/L			06/27/12 18:59	1
Tetrachloroethene	ND		0.50		ug/L			06/27/12 18:59	1
Toluene	ND		0.50		ug/L			06/27/12 18:59	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/27/12 18:59	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/27/12 18:59	1
Trichloroethene	ND		0.50		ug/L			06/27/12 18:59	1
Trichlorofluoromethane	ND		0.50		ug/L			06/27/12 18:59	1
Vinyl chloride	ND		0.50		ug/L			06/27/12 18:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/27/12 18:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/27/12 18:59*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*06/27/12 18:59*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/27/12 18:59*	*1*

Lab Sample ID: LCS 440-35599/4
Matrix: Water
Analysis Batch: 35599

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	70 - 130
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	65 - 135
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	55 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 125
1,1-Dichloroethane	25.0	25.9		ug/L		104	70 - 125
1,1-Dichloroethene	25.0	27.6		ug/L		110	70 - 125
1,1-Dichloropropene	25.0	26.7		ug/L		107	75 - 130
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	65 - 125
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	60 - 130
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 135
1,2,4-Trimethylbenzene	25.0	29.7		ug/L		119	75 - 125
1,2-Dibromo-3-Chloropropane	25.0	28.8		ug/L		115	50 - 135
1,2-Dibromoethane (EDB)	25.0	26.7		ug/L		107	75 - 125
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	75 - 120
1,2-Dichloroethane	25.0	26.8		ug/L		107	60 - 140
1,2-Dichloropropane	25.0	26.0		ug/L		104	70 - 125
1,3,5-Trimethylbenzene	25.0	29.4		ug/L		117	75 - 125
1,3-Dichlorobenzene	25.0	28.0		ug/L		112	75 - 120
1,3-Dichloropropane	25.0	26.6		ug/L		106	70 - 120
1,4-Dichlorobenzene	25.0	27.9		ug/L		112	75 - 120
2,2-Dichloropropane	25.0	27.6		ug/L		110	65 - 140
2-Chlorotoluene	25.0	27.6		ug/L		110	70 - 125
4-Chlorotoluene	25.0	28.2		ug/L		113	75 - 125
Benzene	25.0	27.4		ug/L		109	70 - 120
Bromobenzene	25.0	27.9		ug/L		112	75 - 120
Bromochloromethane	25.0	27.4		ug/L		110	70 - 130
Bromodichloromethane	25.0	27.0		ug/L		108	70 - 135

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

Lab Sample ID: LCS 440-35599/4
Matrix: Water
Analysis Batch: 35599

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	23.9		ug/L		95	55 - 130
Bromomethane	25.0	22.9		ug/L		92	65 - 140
Carbon tetrachloride	25.0	28.1		ug/L		112	65 - 140
Chlorobenzene	25.0	27.5		ug/L		110	75 - 120
Chloroethane	25.0	23.3		ug/L		93	60 - 140
Chloroform	25.0	25.7		ug/L		103	70 - 130
Chloromethane	25.0	20.5		ug/L		82	50 - 140
cis-1,2-Dichloroethene	25.0	28.2		ug/L		113	70 - 125
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	75 - 125
Dibromochloromethane	25.0	27.3		ug/L		109	70 - 140
Dibromomethane	25.0	26.7		ug/L		107	70 - 125
Dichlorodifluoromethane	25.0	17.8		ug/L		71	35 - 155
Ethylbenzene	25.0	29.2		ug/L		117	75 - 125
Hexachlorobutadiene	25.0	26.1		ug/L		104	65 - 135
Isopropylbenzene	25.0	28.6		ug/L		114	75 - 130
m,p-Xylene	50.0	57.5		ug/L		115	75 - 125
Methylene Chloride	25.0	25.4		ug/L		102	55 - 130
Naphthalene	25.0	23.9		ug/L		96	55 - 135
n-Butylbenzene	25.0	28.0		ug/L		112	70 - 130
N-Propylbenzene	25.0	28.5		ug/L		114	75 - 130
o-Xylene	25.0	28.7		ug/L		115	75 - 125
p-Isopropyltoluene	25.0	28.4		ug/L		114	75 - 125
Styrene	25.0	29.1		ug/L		117	75 - 130
sec-Butylbenzene	25.0	28.7		ug/L		115	70 - 125
tert-Butylbenzene	25.0	28.8		ug/L		115	70 - 125
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 125
Toluene	25.0	28.5		ug/L		114	70 - 120
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 125
trans-1,3-Dichloropropene	25.0	29.7		ug/L		119	70 - 125
Trichloroethene	25.0	28.2		ug/L		113	70 - 125
Trichlorofluoromethane	25.0	25.9		ug/L		103	65 - 145
Vinyl chloride	25.0	21.7		ug/L		87	55 - 135
Methyl-t-Butyl Ether (MTBE)	25.0	26.0		ug/L		104	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 440-15425-A-1 MS
Matrix: Water
Analysis Batch: 35599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	65 - 140
1,1,1-Trichloroethane	ND		25.0	25.3		ug/L		101	65 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	26.8		ug/L		107	55 - 135
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	65 - 130
1,1-Dichloroethane	ND		25.0	24.5		ug/L		98	65 - 130

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

Lab Sample ID: 440-15425-A-1 MS
Matrix: Water
Analysis Batch: 35599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	26.8		ug/L		107	60 - 130
1,1-Dichloropropene	ND		25.0	26.7		ug/L		107	70 - 135
1,2,3-Trichlorobenzene	ND		25.0	23.9		ug/L		95	60 - 135
1,2,3-Trichloropropane	ND		25.0	25.6		ug/L		102	55 - 135
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		105	65 - 135
1,2,4-Trimethylbenzene	ND		25.0	29.2		ug/L		117	55 - 135
1,2-Dibromo-3-Chloropropane	ND		25.0	30.0		ug/L		120	45 - 145
1,2-Dibromoethane (EDB)	ND		25.0	25.6		ug/L		102	70 - 130
1,2-Dichlorobenzene	ND		25.0	26.9		ug/L		108	75 - 125
1,2-Dichloroethane	ND		25.0	25.8		ug/L		103	60 - 140
1,2-Dichloropropane	ND		25.0	25.9		ug/L		103	65 - 130
1,3,5-Trimethylbenzene	ND		25.0	28.6		ug/L		115	70 - 130
1,3-Dichlorobenzene	ND		25.0	28.0		ug/L		112	75 - 125
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	65 - 135
1,4-Dichlorobenzene	ND		25.0	27.5		ug/L		110	75 - 125
2,2-Dichloropropane	ND		25.0	26.1		ug/L		104	60 - 145
2-Chlorotoluene	ND		25.0	28.3		ug/L		113	65 - 135
4-Chlorotoluene	ND		25.0	27.9		ug/L		111	70 - 135
Benzene	ND		25.0	26.9		ug/L		108	65 - 125
Bromobenzene	ND		25.0	27.6		ug/L		111	70 - 125
Bromochloromethane	ND		25.0	24.7		ug/L		99	65 - 135
Bromodichloromethane	0.54		25.0	26.9		ug/L		105	70 - 135
Bromoform	ND		25.0	23.4		ug/L		94	55 - 135
Bromomethane	ND		25.0	22.5		ug/L		90	55 - 145
Carbon tetrachloride	ND		25.0	28.6		ug/L		114	65 - 140
Chlorobenzene	ND		25.0	26.2		ug/L		105	75 - 125
Chloroethane	ND		25.0	21.7		ug/L		87	55 - 140
Chloroform	0.59		25.0	24.3		ug/L		95	65 - 135
Chloromethane	ND		25.0	19.7		ug/L		79	45 - 145
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	65 - 130
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	70 - 130
Dibromochloromethane	0.56		25.0	26.6		ug/L		104	65 - 140
Dibromomethane	ND		25.0	25.6		ug/L		102	65 - 135
Dichlorodifluoromethane	ND		25.0	17.2		ug/L		69	25 - 155
Ethylbenzene	ND		25.0	28.0		ug/L		112	65 - 130
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	60 - 135
Isopropylbenzene	ND		25.0	28.9		ug/L		116	70 - 135
m,p-Xylene	ND		50.0	54.0		ug/L		108	65 - 130
Methylene Chloride	ND		25.0	23.7		ug/L		95	50 - 135
Naphthalene	ND		25.0	23.6		ug/L		94	50 - 140
n-Butylbenzene	ND		25.0	28.5		ug/L		114	65 - 135
N-Propylbenzene	ND		25.0	28.9		ug/L		116	70 - 135
o-Xylene	ND		25.0	27.1		ug/L		108	65 - 125
p-Isopropyltoluene	ND		25.0	28.3		ug/L		113	65 - 130
Styrene	ND		25.0	17.6		ug/L		71	50 - 145
sec-Butylbenzene	ND		25.0	29.5		ug/L		118	70 - 125
tert-Butylbenzene	ND		25.0	29.4		ug/L		118	65 - 130
Tetrachloroethene	ND		25.0	27.2		ug/L		109	65 - 130
Toluene	ND		25.0	27.8		ug/L		111	70 - 125
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	65 - 130

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

Lab Sample ID: 440-15425-A-1 MS
Matrix: Water
Analysis Batch: 35599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	65 - 135
Trichloroethene	ND		25.0	27.7		ug/L		111	65 - 125
Trichlorofluoromethane	ND		25.0	24.9		ug/L		100	60 - 145
Vinyl chloride	ND		25.0	20.9		ug/L		84	45 - 140
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.5		ug/L		98	55 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*86*		*80 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 440-15425-A-1 MSD
Matrix: Water
Analysis Batch: 35599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	26.9		ug/L		108	65 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L		103	65 - 140	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.4		ug/L		105	55 - 135	2	30
1,1,2-Trichloroethane	ND		25.0	25.1		ug/L		100	65 - 130	1	25
1,1-Dichloroethane	ND		25.0	24.5		ug/L		98	65 - 130	0	20
1,1-Dichloroethene	ND		25.0	26.8		ug/L		107	60 - 130	0	20
1,1-Dichloropropene	ND		25.0	27.1		ug/L		108	70 - 135	2	20
1,2,3-Trichlorobenzene	ND		25.0	23.5		ug/L		94	60 - 135	2	20
1,2,3-Trichloropropane	ND		25.0	25.5		ug/L		102	55 - 135	0	30
1,2,4-Trichlorobenzene	ND		25.0	25.9		ug/L		104	65 - 135	2	20
1,2,4-Trimethylbenzene	ND		25.0	29.2		ug/L		117	55 - 135	0	25
1,2-Dibromo-3-Chloropropane	ND		25.0	29.2		ug/L		117	45 - 145	3	30
1,2-Dibromoethane (EDB)	ND		25.0	25.9		ug/L		104	70 - 130	1	25
1,2-Dichlorobenzene	ND		25.0	27.0		ug/L		108	75 - 125	1	20
1,2-Dichloroethane	ND		25.0	25.9		ug/L		104	60 - 140	0	20
1,2-Dichloropropane	ND		25.0	26.1		ug/L		104	65 - 130	1	20
1,3,5-Trimethylbenzene	ND		25.0	28.3		ug/L		113	70 - 130	1	20
1,3-Dichlorobenzene	ND		25.0	28.1		ug/L		112	75 - 125	0	20
1,3-Dichloropropane	ND		25.0	25.6		ug/L		102	65 - 135	1	25
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	75 - 125	1	20
2,2-Dichloropropane	ND		25.0	25.3		ug/L		101	60 - 145	3	25
2-Chlorotoluene	ND		25.0	28.0		ug/L		112	65 - 135	1	20
4-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 135	0	20
Benzene	ND		25.0	27.1		ug/L		108	65 - 125	1	20
Bromobenzene	ND		25.0	27.5		ug/L		110	70 - 125	0	20
Bromochloromethane	ND		25.0	25.2		ug/L		101	65 - 135	2	25
Bromodichloromethane	0.54		25.0	27.4		ug/L		107	70 - 135	2	20
Bromoform	ND		25.0	23.2		ug/L		93	55 - 135	1	25
Bromomethane	ND		25.0	22.0		ug/L		88	55 - 145	2	25
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	65 - 140	1	25
Chlorobenzene	ND		25.0	26.5		ug/L		106	75 - 125	1	20
Chloroethane	ND		25.0	21.8		ug/L		87	55 - 140	1	25
Chloroform	0.59		25.0	24.6		ug/L		96	65 - 135	1	20

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

Lab Sample ID: 440-15425-A-1 MSD
Matrix: Water
Analysis Batch: 35599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	ND		25.0	19.4		ug/L		78	45 - 145	1	25
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	65 - 130	4	20
cis-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	70 - 130	1	20
Dibromochloromethane	0.56		25.0	27.1		ug/L		106	65 - 140	2	25
Dibromomethane	ND		25.0	25.4		ug/L		102	65 - 135	1	25
Dichlorodifluoromethane	ND		25.0	17.2		ug/L		69	25 - 155	0	30
Ethylbenzene	ND		25.0	28.5		ug/L		114	65 - 130	2	20
Hexachlorobutadiene	ND		25.0	25.0		ug/L		100	60 - 135	2	20
Isopropylbenzene	ND		25.0	28.8		ug/L		115	70 - 135	0	20
m,p-Xylene	ND		50.0	54.9		ug/L		110	65 - 130	2	25
Methylene Chloride	ND		25.0	24.4		ug/L		98	50 - 135	3	20
Naphthalene	ND		25.0	23.1		ug/L		92	50 - 140	2	30
n-Butylbenzene	ND		25.0	28.5		ug/L		114	65 - 135	0	20
N-Propylbenzene	ND		25.0	29.0		ug/L		116	70 - 135	0	20
o-Xylene	ND		25.0	27.1		ug/L		108	65 - 125	0	20
p-Isopropyltoluene	ND		25.0	28.8		ug/L		115	65 - 130	2	20
Styrene	ND		25.0	16.2		ug/L		65	50 - 145	9	30
sec-Butylbenzene	ND		25.0	29.8		ug/L		119	70 - 125	1	20
tert-Butylbenzene	ND		25.0	29.5		ug/L		118	65 - 130	0	20
Tetrachloroethene	ND		25.0	28.1		ug/L		113	65 - 130	3	20
Toluene	ND		25.0	28.0		ug/L		112	70 - 125	1	20
trans-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	65 - 130	2	20
trans-1,3-Dichloropropene	ND		25.0	28.7		ug/L		115	65 - 135	0	25
Trichloroethene	ND		25.0	27.9		ug/L		111	65 - 125	0	20
Trichlorofluoromethane	ND		25.0	25.0		ug/L		100	60 - 145	0	25
Vinyl chloride	ND		25.0	20.7		ug/L		83	45 - 140	1	30
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.5		ug/L		98	55 - 145	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*88*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

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

Lab Sample ID: MB 440-34062/1-A
Matrix: Water
Analysis Batch: 34194

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 34062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.50		mg/L		06/20/12 12:14	06/20/12 21:07	1
C29-C40	ND		0.50		mg/L		06/20/12 12:14	06/20/12 21:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*06/20/12 12:14*	*06/20/12 21:07*	*1*

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

Lab Sample ID: LCS 440-34062/2-A
Matrix: Water
Analysis Batch: 34194

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 34062

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.762		mg/L		76	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*82*		*45 - 120*

Lab Sample ID: LCSD 440-34062/3-A
Matrix: Water
Analysis Batch: 34194

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 34062

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.744		mg/L		74	40 - 115	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

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

Lab Sample ID: MB 440-34182/1-A
Matrix: Water
Analysis Batch: 34701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.050		mg/L		06/20/12 16:48	06/22/12 15:13	1
C29-C40	ND		0.050		mg/L		06/20/12 16:48	06/22/12 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*86*		*45 - 120*	*06/20/12 16:48*	*06/22/12 15:13*	*1*

Lab Sample ID: LCS 440-34182/2-A
Matrix: Water
Analysis Batch: 34701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.853		mg/L		85	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*85*		*45 - 120*

Lab Sample ID: LCSD 440-34182/3-A
Matrix: Water
Analysis Batch: 34701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34182

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.819		mg/L		82	40 - 115	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*81*		*45 - 120*

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

Lab Sample ID: MB 440-33558/1-A
Matrix: Water
Analysis Batch: 33546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33558

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1221	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1232	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1242	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1248	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1254	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1
Aroclor 1260	ND		1.0		ug/L		06/18/12 13:00	06/18/12 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*06/18/12 13:00*	*06/18/12 18:46*	*1*

Lab Sample ID: LCS 440-33558/2-A
Matrix: Water
Analysis Batch: 33546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33558

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.85		ug/L		96	50 - 115		
Aroclor 1260			4.00	4.01		ug/L		100	60 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

Lab Sample ID: LCSD 440-33558/3-A
Matrix: Water
Analysis Batch: 33546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33558

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.92		ug/L		98	50 - 115	2	30
Aroclor 1260			4.00	4.02		ug/L		101	60 - 120	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-34617/1-A
Matrix: Water
Analysis Batch: 34916

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 34617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		06/22/12 12:38	06/23/12 15:29	1
Zinc	ND		0.020		mg/L		06/22/12 12:38	06/23/12 15:29	1
Nickel	ND		0.010		mg/L		06/22/12 12:38	06/23/12 15:29	1
Chromium	ND		0.0050		mg/L		06/22/12 12:38	06/23/12 15:29	1
Cadmium	ND		0.0050		mg/L		06/22/12 12:38	06/23/12 15:29	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-34617/2-A
Matrix: Water
Analysis Batch: 34916

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 34617

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	1.01		mg/L		101	80 - 120		
Zinc			1.00	0.975		mg/L		98	80 - 120		
Nickel			1.00	0.975		mg/L		97	80 - 120		
Chromium			1.00	1.05		mg/L		105	80 - 120		
Cadmium			1.00	0.989		mg/L		99	80 - 120		

Lab Sample ID: 440-15228-C-1-C MS
Matrix: Water
Analysis Batch: 34916

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 34617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	ND		1.00	0.978		mg/L		98	75 - 125		
Zinc	0.032		1.00	0.998		mg/L		97	75 - 125		
Nickel	ND		1.00	0.932		mg/L		93	75 - 125		
Chromium	ND		1.00	1.03		mg/L		103	75 - 125		
Cadmium	ND		1.00	0.955		mg/L		95	75 - 125		

Lab Sample ID: 440-15228-C-1-D MSD
Matrix: Water
Analysis Batch: 34916

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 34617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1.00	0.995		mg/L		99	75 - 125	2	20
Zinc	0.032		1.00	1.03		mg/L		100	75 - 125	3	20
Nickel	ND		1.00	0.973		mg/L		97	75 - 125	4	20
Chromium	ND		1.00	1.05		mg/L		105	75 - 125	2	20
Cadmium	ND		1.00	0.987		mg/L		99	75 - 125	3	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

GC/MS VOA

Analysis Batch: 35599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total/NA	Water	8260B	
440-15425-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-15425-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-35599/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-35599/3	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Analysis Batch: 33546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total/NA	Water	8082	33558
LCS 440-33558/2-A	Lab Control Sample	Total/NA	Water	8082	33558
LCSD 440-33558/3-A	Lab Control Sample Dup	Total/NA	Water	8082	33558
MB 440-33558/1-A	Method Blank	Total/NA	Water	8082	33558

Prep Batch: 33558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total/NA	Water	3510C	
LCS 440-33558/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-33558/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-33558/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 34062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Silica Gel Cleanup	Water	3510C SGC	
LCS 440-34062/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 440-34062/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 440-34062/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Prep Batch: 34182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total/NA	Water	3510C	
LCS 440-34182/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-34182/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-34182/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 34194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Silica Gel Cleanup	Water	8015B	34062
LCS 440-34062/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	34062
LCSD 440-34062/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	34062
MB 440-34062/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	34062

Analysis Batch: 34701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-34182/2-A	Lab Control Sample	Total/NA	Water	8015B	34182
LCSD 440-34182/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	34182
MB 440-34182/1-A	Method Blank	Total/NA	Water	8015B	34182

Analysis Batch: 34703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total/NA	Water	8015B	34182

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Metals

Prep Batch: 34617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total Recoverable	Water	3005A	
440-15228-C-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
440-15228-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 440-34617/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-34617/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 34916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14914-1	B-1-W-20120614	Total Recoverable	Water	6010B	34617
440-15228-C-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	34617
440-15228-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	34617
LCS 440-34617/2-A	Lab Control Sample	Total Recoverable	Water	6010B	34617
MB 440-34617/1-A	Method Blank	Total Recoverable	Water	6010B	34617

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-14914-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	California	State Program	9	2706
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica

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TAL-0013 (0911)

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

440-14914

Client Name/Address: ARCADIS/ 320 Commerce, Ste 200 Irvine, CA 92602

Project/PO Number: B0060901.9708

Project Manager: Toni DeMayo

Phone Number: 714.508.2657

Sampler: LK/B.WP

Fax Number: 714.730.9345

Analysis Required:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	TPH-MO (8015M)	TPH-DRO (8015B) w/silica gel cleanup	TPH-DRO (8015B)	BTEX+MTBE (8260B)	Halogenated VOCs (8260B)	cadmium, chromium, lead, nickel, zinc (6010B)	PCBs (8082)	TPH-MO (8015M) w/silica gel cleanup		Special Instructions
B-1-W-20120614	W	Variety	9	6/14/12	1115	HCl/HNO3/–	X	X	X	X	X	X	X	X		

Relinquished By: [signature]	Date/Time: 6/14/12 1932	Received By: [signature] Date/Time: 6-14-12 1932
Relinquished By: [signature]	Date/Time: 6/15/12 1544	Received By: Date/Time:
Relinquished By:	Date/Time:	Received in Lab By: [signature] Date/Time: 06/16/12 10:30

Turnaround Time: (Check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal X

Sample Integrity: (Check)

intact X on ice X 1.3°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services performed on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

5.8°/5.6°C

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 440-14914-1

Login Number: 14914

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	LK
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-15189-1
Client Project/Site: Chevron - 9-9708

For:
ARCADIS U.S., Inc.
3240 El Camino Real
Suite 200
Irvine, California 92602

Attn: Toni DeMayo

Authorized for release by:
7/5/2012 9:29:33 PM

Sushmitha Reddy
Project Manager I
sushmitha.reddy@testamericainc.com

Table of Contents

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-15189-1	B-7-W-20120615	Water	06/15/12 12:17	06/20/12 09:40
440-15189-2	B-3-W-20120615	Water	06/15/12 15:25	06/20/12 09:40
440-15189-3	B-4-W-20120615	Water	06/15/12 15:45	06/20/12 09:40
440-15189-4	B-2-W-20120615	Water	06/15/12 16:30	06/20/12 09:40
440-15189-5	B-8-W-20120615	Water	06/15/12 16:50	06/20/12 09:40

Job ID: 440-15189-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-15189-1

Comments
No additional comments.

Receipt
The samples were received on 6/20/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for Carbon tetrachloride associated with batch 35961 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries associated with batch 35961 were outside control limits for Carbon tetrachloride: (440-15189-1 MSD). Samples associated with this batch were ND for Carbon tetrachloride.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 35961 exceeded control limits for the following analytes: carbon tetrachloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 34950. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8082: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 34404. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: Due to the high concentration of Ca,Fe,Mg,Na , the matrix spike / matrix spike duplicate (MS/MSD) for batch 35508 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010B: The ICSAB for analytical batch 440-35724 exceeded the acceptance limits for cadmium. The samples were non-detect, so no re-analysis was required.

Method(s) 6010B: The following sample(s) was diluted due to the nature of the sample matrix: B-3-W-20120615 (440-15189-2), B-4-W-20120615 (440-15189-3), B-8-W-20120615 (440-15189-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
Method(s) 3510C: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for preparation B-3-W-20120615 (440-15189-2)

Method(s) 3510C: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for <<CHOOSE ONE>> preparation/analysis: B-2-W-20120615 (440-15189-4)

No other analytical or quality issues were noted.

VOA Prep

Job ID: 440-15189-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

No analytical or quality issues were noted.

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-7-W-20120615
Date Collected: 06/15/12 12:17
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 11:09	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 11:09	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 11:09	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 11:09	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 11:09	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 11:09	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 11:09	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 11:09	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 11:09	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 11:09	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 11:09	1
Benzene	**0.90**		0.50		ug/L			06/29/12 11:09	1
Bromobenzene	ND		0.50		ug/L			06/29/12 11:09	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 11:09	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 11:09	1
Bromoform	ND		0.50		ug/L			06/29/12 11:09	1
Bromomethane	ND		0.50		ug/L			06/29/12 11:09	1
Carbon tetrachloride	ND	*	0.50		ug/L			06/29/12 11:09	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 11:09	1
Chloroethane	ND		0.50		ug/L			06/29/12 11:09	1
Chloroform	ND		0.50		ug/L			06/29/12 11:09	1
Chloromethane	ND		0.50		ug/L			06/29/12 11:09	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 11:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 11:09	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 11:09	1
Dibromomethane	ND		0.50		ug/L			06/29/12 11:09	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 11:09	1
Ethylbenzene	**3.6**		0.50		ug/L			06/29/12 11:09	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 11:09	1
Isopropylbenzene	ND		0.50		ug/L			06/29/12 11:09	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 11:09	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 11:09	1
Naphthalene	ND		0.50		ug/L			06/29/12 11:09	1
n-Butylbenzene	ND		0.50		ug/L			06/29/12 11:09	1
N-Propylbenzene	**0.68**		0.50		ug/L			06/29/12 11:09	1
o-Xylene	ND		0.50		ug/L			06/29/12 11:09	1
p-Isopropyltoluene	ND		0.50		ug/L			06/29/12 11:09	1
Styrene	ND		0.50		ug/L			06/29/12 11:09	1
sec-Butylbenzene	ND		0.50		ug/L			06/29/12 11:09	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-7-W-20120615
Date Collected: 06/15/12 12:17
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	**0.73**		0.50		ug/L			06/29/12 11:09	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 11:09	1
Toluene	ND		0.50		ug/L			06/29/12 11:09	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 11:09	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 11:09	1
Trichloroethene	ND		0.50		ug/L			06/29/12 11:09	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 11:09	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 11:09	1
Methyl-t-Butyl Ether (MTBE)	**2.3**		0.50		ug/L			06/29/12 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/29/12 11:09*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*06/29/12 11:09*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/29/12 11:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.048		mg/L		06/21/12 11:18	06/21/12 20:44	1
C29-C40	ND		0.048		mg/L		06/21/12 11:18	06/21/12 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*79*		*45 - 120*	*06/21/12 11:18*	*06/21/12 20:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.48		mg/L		06/25/12 11:33	06/25/12 20:31	1
C29-C40	ND		0.48		mg/L		06/25/12 11:33	06/25/12 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*06/25/12 11:33*	*06/25/12 20:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1221	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1232	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1242	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1248	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1254	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1
Aroclor 1260	ND		0.96		ug/L		06/21/12 14:17	06/25/12 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*06/21/12 14:17*	*06/25/12 17:43*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.010**		0.0050		mg/L		06/27/12 11:59	06/27/12 20:49	1
Zinc	**0.068**		0.020		mg/L		06/27/12 11:59	06/27/12 20:49	1
Nickel	**0.083**		0.010		mg/L		06/27/12 11:59	06/27/12 20:49	1
Chromium	**0.065**		0.0050		mg/L		06/27/12 11:59	06/27/12 20:49	1
Cadmium	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:49	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-3-W-20120615
Date Collected: 06/15/12 15:25
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 12:30	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 12:30	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 12:30	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 12:30	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 12:30	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 12:30	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 12:30	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 12:30	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 12:30	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 12:30	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 12:30	1
Benzene	ND		0.50		ug/L			06/29/12 12:30	1
Bromobenzene	ND		0.50		ug/L			06/29/12 12:30	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 12:30	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 12:30	1
Bromoform	ND		0.50		ug/L			06/29/12 12:30	1
Bromomethane	ND		0.50		ug/L			06/29/12 12:30	1
Carbon tetrachloride	ND	*	0.50		ug/L			06/29/12 12:30	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 12:30	1
Chloroethane	ND		0.50		ug/L			06/29/12 12:30	1
Chloroform	**8.7**		0.50		ug/L			06/29/12 12:30	1
Chloromethane	ND		0.50		ug/L			06/29/12 12:30	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 12:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 12:30	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 12:30	1
Dibromomethane	ND		0.50		ug/L			06/29/12 12:30	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 12:30	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 12:30	1
Isopropylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 12:30	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 12:30	1
Naphthalene	ND		0.50		ug/L			06/29/12 12:30	1
n-Butylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
N-Propylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
o-Xylene	ND		0.50		ug/L			06/29/12 12:30	1
p-Isopropyltoluene	ND		0.50		ug/L			06/29/12 12:30	1
Styrene	ND		0.50		ug/L			06/29/12 12:30	1
sec-Butylbenzene	ND		0.50		ug/L			06/29/12 12:30	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-3-W-20120615
Date Collected: 06/15/12 15:25
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.50		ug/L			06/29/12 12:30	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 12:30	1
Toluene	ND		0.50		ug/L			06/29/12 12:30	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 12:30	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 12:30	1
Trichloroethene	ND		0.50		ug/L			06/29/12 12:30	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 12:30	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 12:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/29/12 12:30*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*06/29/12 12:30*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/29/12 12:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.072		mg/L		06/21/12 11:18	06/21/12 21:07	1
C29-C40	ND		0.072		mg/L		06/21/12 11:18	06/21/12 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*98*		*45 - 120*	*06/21/12 11:18*	*06/21/12 21:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.48		mg/L		06/25/12 11:33	06/25/12 20:52	1
C29-C40	ND		0.48		mg/L		06/25/12 11:33	06/25/12 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*45 - 120*	*06/25/12 11:33*	*06/25/12 20:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1221	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1232	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1242	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1248	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1254	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1
Aroclor 1260	ND		0.95		ug/L		06/21/12 14:17	06/25/12 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*06/21/12 14:17*	*06/25/12 17:56*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.31**		0.050		mg/L		06/27/12 11:59	06/27/12 20:51	2
Zinc	**1.6**		0.20		mg/L		06/27/12 11:59	06/27/12 20:51	2
Nickel	**3.0**		0.10		mg/L		06/27/12 11:59	06/27/12 20:51	2
Chromium	**1.3**		0.050		mg/L		06/27/12 11:59	06/27/12 20:51	2
Cadmium	ND		0.050		mg/L		06/27/12 11:59	06/27/12 20:51	2

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-4-W-20120615
Date Collected: 06/15/12 15:45
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 12:57	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 12:57	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 12:57	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 12:57	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 12:57	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 12:57	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 12:57	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 12:57	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 12:57	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 12:57	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 12:57	1
Benzene	ND		0.50		ug/L			06/29/12 12:57	1
Bromobenzene	ND		0.50		ug/L			06/29/12 12:57	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 12:57	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 12:57	1
Bromoform	ND		0.50		ug/L			06/29/12 12:57	1
Bromomethane	ND		0.50		ug/L			06/29/12 12:57	1
Carbon tetrachloride	ND	*	0.50		ug/L			06/29/12 12:57	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 12:57	1
Chloroethane	ND		0.50		ug/L			06/29/12 12:57	1
Chloroform	ND		0.50		ug/L			06/29/12 12:57	1
Chloromethane	ND		0.50		ug/L			06/29/12 12:57	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 12:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 12:57	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 12:57	1
Dibromomethane	ND		0.50		ug/L			06/29/12 12:57	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 12:57	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 12:57	1
Isopropylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 12:57	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 12:57	1
Naphthalene	ND		0.50		ug/L			06/29/12 12:57	1
n-Butylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
N-Propylbenzene	ND		0.50		ug/L			06/29/12 12:57	1
o-Xylene	ND		0.50		ug/L			06/29/12 12:57	1
p-Isopropyltoluene	ND		0.50		ug/L			06/29/12 12:57	1
Styrene	ND		0.50		ug/L			06/29/12 12:57	1
sec-Butylbenzene	ND		0.50		ug/L			06/29/12 12:57	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-4-W-20120615
Date Collected: 06/15/12 15:45
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	**1.0**		0.50		ug/L			06/29/12 12:57	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 12:57	1
Toluene	ND		0.50		ug/L			06/29/12 12:57	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 12:57	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 12:57	1
Trichloroethene	ND		0.50		ug/L			06/29/12 12:57	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 12:57	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 12:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/29/12 12:57*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*06/29/12 12:57*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 12:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**0.077**		0.049		mg/L		06/21/12 11:18	06/21/12 21:30	1
C29-C40	ND		0.049		mg/L		06/21/12 11:18	06/21/12 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*45 - 120*	*06/21/12 11:18*	*06/21/12 21:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.50		mg/L		06/25/12 11:33	06/25/12 21:12	1
C29-C40	ND		0.50		mg/L		06/25/12 11:33	06/25/12 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*45 - 120*	*06/25/12 11:33*	*06/25/12 21:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1221	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1232	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1242	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1248	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1254	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1
Aroclor 1260	ND		0.99		ug/L		06/21/12 14:17	06/25/12 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*06/21/12 14:17*	*06/25/12 18:09*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.75**		0.050		mg/L		06/27/12 11:59	06/27/12 20:53	2
Zinc	**5.1**		0.20		mg/L		06/27/12 11:59	06/27/12 20:53	2
Nickel	**5.8**		0.10		mg/L		06/27/12 11:59	06/27/12 20:53	2
Chromium	**3.5**		0.050		mg/L		06/27/12 11:59	06/27/12 20:53	2
Cadmium	ND		0.050		mg/L		06/27/12 11:59	06/27/12 20:53	2

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-2-W-20120615
Date Collected: 06/15/12 16:30
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 13:24	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 13:24	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 13:24	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 13:24	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 13:24	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 13:24	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 13:24	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 13:24	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 13:24	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 13:24	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 13:24	1
Benzene	ND		0.50		ug/L			06/29/12 13:24	1
Bromobenzene	ND		0.50		ug/L			06/29/12 13:24	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 13:24	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 13:24	1
Bromoform	ND		0.50		ug/L			06/29/12 13:24	1
Bromomethane	ND		0.50		ug/L			06/29/12 13:24	1
Carbon tetrachloride	ND	*	0.50		ug/L			06/29/12 13:24	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 13:24	1
Chloroethane	ND		0.50		ug/L			06/29/12 13:24	1
Chloroform	ND		0.50		ug/L			06/29/12 13:24	1
Chloromethane	ND		0.50		ug/L			06/29/12 13:24	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 13:24	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 13:24	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 13:24	1
Dibromomethane	ND		0.50		ug/L			06/29/12 13:24	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 13:24	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 13:24	1
Isopropylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 13:24	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 13:24	1
Naphthalene	ND		0.50		ug/L			06/29/12 13:24	1
n-Butylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
N-Propylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
o-Xylene	ND		0.50		ug/L			06/29/12 13:24	1
p-Isopropyltoluene	ND		0.50		ug/L			06/29/12 13:24	1
Styrene	ND		0.50		ug/L			06/29/12 13:24	1
sec-Butylbenzene	ND		0.50		ug/L			06/29/12 13:24	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-2-W-20120615
Date Collected: 06/15/12 16:30
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.50		ug/L			06/29/12 13:24	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 13:24	1
Toluene	ND		0.50		ug/L			06/29/12 13:24	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 13:24	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 13:24	1
Trichloroethene	ND		0.50		ug/L			06/29/12 13:24	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 13:24	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 13:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/29/12 13:24*	*1*
Dibromofluoromethane (Surr)	*82*		*80 - 120*		*06/29/12 13:24*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 13:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**1.5**		0.053		mg/L		06/21/12 11:18	06/21/12 21:53	1
C29-C40	**0.90**		0.053		mg/L		06/21/12 11:18	06/21/12 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*94*		*45 - 120*	*06/21/12 11:18*	*06/21/12 21:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.49		mg/L		06/25/12 11:33	06/25/12 21:33	1
C29-C40	ND		0.49		mg/L		06/25/12 11:33	06/25/12 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 120*	*06/25/12 11:33*	*06/25/12 21:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1221	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1232	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1242	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1248	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1254	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1
Aroclor 1260	ND		1.4		ug/L		06/21/12 14:17	06/25/12 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*06/21/12 14:17*	*06/25/12 18:23*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:55	1
Zinc	ND		0.020		mg/L		06/27/12 11:59	06/27/12 20:55	1
Nickel	**0.046**		0.010		mg/L		06/27/12 11:59	06/27/12 20:55	1
Chromium	**0.013**		0.0050		mg/L		06/27/12 11:59	06/27/12 20:55	1
Cadmium	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:55	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-8-W-20120615
Date Collected: 06/15/12 16:50
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 13:51	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 13:51	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 13:51	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 13:51	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 13:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 13:51	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 13:51	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 13:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 13:51	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 13:51	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 13:51	1
Benzene	**0.56**		0.50		ug/L			06/29/12 13:51	1
Bromobenzene	ND		0.50		ug/L			06/29/12 13:51	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 13:51	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 13:51	1
Bromoform	ND		0.50		ug/L			06/29/12 13:51	1
Bromomethane	ND		0.50		ug/L			06/29/12 13:51	1
Carbon tetrachloride	ND	*	0.50		ug/L			06/29/12 13:51	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 13:51	1
Chloroethane	ND		0.50		ug/L			06/29/12 13:51	1
Chloroform	ND		0.50		ug/L			06/29/12 13:51	1
Chloromethane	ND		0.50		ug/L			06/29/12 13:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 13:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 13:51	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 13:51	1
Dibromomethane	ND		0.50		ug/L			06/29/12 13:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 13:51	1
Ethylbenzene	**14**		0.50		ug/L			06/29/12 13:51	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 13:51	1
Isopropylbenzene	**3.3**		0.50		ug/L			06/29/12 13:51	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 13:51	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 13:51	1
Naphthalene	ND		0.50		ug/L			06/29/12 13:51	1
n-Butylbenzene	**1.3**		0.50		ug/L			06/29/12 13:51	1
N-Propylbenzene	**6.4**		0.50		ug/L			06/29/12 13:51	1
o-Xylene	ND		0.50		ug/L			06/29/12 13:51	1
p-Isopropyltoluene	**0.57**		0.50		ug/L			06/29/12 13:51	1
Styrene	ND		0.50		ug/L			06/29/12 13:51	1
sec-Butylbenzene	**0.82**		0.50		ug/L			06/29/12 13:51	1

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-8-W-20120615
Date Collected: 06/15/12 16:50
Date Received: 06/20/12 09:40

Lab Sample ID: 440-15189-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	**7.7**		0.50		ug/L			06/29/12 13:51	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 13:51	1
Toluene	ND		0.50		ug/L			06/29/12 13:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 13:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 13:51	1
Trichloroethene	ND		0.50		ug/L			06/29/12 13:51	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 13:51	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 13:51	1
Methyl-t-Butyl Ether (MTBE)	**12**		0.50		ug/L			06/29/12 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/29/12 13:51*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*06/29/12 13:51*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/29/12 13:51*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.18**		0.050		mg/L		06/27/12 11:59	06/27/12 20:57	2
Zinc	**1.7**		0.20		mg/L		06/27/12 11:59	06/27/12 20:57	2
Nickel	**2.1**		0.10		mg/L		06/27/12 11:59	06/27/12 20:57	2
Chromium	**1.3**		0.050		mg/L		06/27/12 11:59	06/27/12 20:57	2
Cadmium	ND		0.050		mg/L		06/27/12 11:59	06/27/12 20:57	2

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-7-W-20120615

Lab Sample ID: 440-15189-1

Date Collected: 06/15/12 12:17

Matrix: Water

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 11:09	LB	TAL IRV
Total/NA	Prep	3510C			1045 mL	1 mL	34359	06/21/12 11:18	KW	TAL IRV
Total/NA	Analysis	8015B		1			34396	06/21/12 20:44		TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1045 mL	1 mL	34950	06/25/12 11:33	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34910	06/25/12 20:31	ES	TAL IRV
Total/NA	Prep	3510C			1040 mL	2 mL	34404	06/21/12 14:17	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/25/12 17:43	JM	TAL IRV
Total Recoverable	Prep	3005A			50 mL	50 mL	35508	06/27/12 11:59	EN	TAL IRV
Total Recoverable	Analysis	6010B		1			35724	06/27/12 20:49	VS	TAL IRV

Client Sample ID: B-3-W-20120615

Lab Sample ID: 440-15189-2

Date Collected: 06/15/12 15:25

Matrix: Water

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 12:30	LB	TAL IRV
Total/NA	Prep	3510C			690 mL	1 mL	34359	06/21/12 11:18	KW	TAL IRV
Total/NA	Analysis	8015B		1			34396	06/21/12 21:07		TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1040 mL	1 mL	34950	06/25/12 11:33	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34910	06/25/12 20:52	ES	TAL IRV
Total/NA	Prep	3510C			1050 mL	2 mL	34404	06/21/12 14:17	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/25/12 17:56	JM	TAL IRV
Total Recoverable	Prep	3005A			10 mL	50 mL	35508	06/27/12 11:59	EN	TAL IRV
Total Recoverable	Analysis	6010B		2			35724	06/27/12 20:51	VS	TAL IRV

Client Sample ID: B-4-W-20120615

Lab Sample ID: 440-15189-3

Date Collected: 06/15/12 15:45

Matrix: Water

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 12:57	LB	TAL IRV
Total/NA	Prep	3510C			1020 mL	1 mL	34359	06/21/12 11:18	KW	TAL IRV
Total/NA	Analysis	8015B		1			34396	06/21/12 21:30		TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1010 mL	1 mL	34950	06/25/12 11:33	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34910	06/25/12 21:12	ES	TAL IRV
Total/NA	Prep	3510C			1010 mL	2 mL	34404	06/21/12 14:17	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/25/12 18:09	JM	TAL IRV
Total Recoverable	Prep	3005A			10 mL	50 mL	35508	06/27/12 11:59	EN	TAL IRV
Total Recoverable	Analysis	6010B		2			35724	06/27/12 20:53	VS	TAL IRV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Client Sample ID: B-2-W-20120615

Lab Sample ID: 440-15189-4

Date Collected: 06/15/12 16:30

Matrix: Water

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 13:24	LB	TAL IRV
Total/NA	Prep	3510C			950 mL	1 mL	34359	06/21/12 11:18	KW	TAL IRV
Total/NA	Analysis	8015B		1			34396	06/21/12 21:53		TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1030 mL	1 mL	34950	06/25/12 11:33	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			34910	06/25/12 21:33	ES	TAL IRV
Total/NA	Prep	3510C			730 mL	2 mL	34404	06/21/12 14:17	AB	TAL IRV
Total/NA	Analysis	8082		1			34988	06/25/12 18:23	JM	TAL IRV
Total Recoverable	Prep	3005A			50 mL	50 mL	35508	06/27/12 11:59	EN	TAL IRV
Total Recoverable	Analysis	6010B		1			35724	06/27/12 20:55	VS	TAL IRV

Client Sample ID: B-8-W-20120615

Lab Sample ID: 440-15189-5

Date Collected: 06/15/12 16:50

Matrix: Water

Date Received: 06/20/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 13:51	LB	TAL IRV
Total Recoverable	Prep	3005A			10 mL	50 mL	35508	06/27/12 11:59	EN	TAL IRV
Total Recoverable	Analysis	6010B		2			35724	06/27/12 20:57	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

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

Lab Sample ID: MB 440-35961/3
Matrix: Water
Analysis Batch: 35961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,1,1-Trichloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,1,2-Trichloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,1-Dichloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,1-Dichloroethene	ND		0.50		ug/L			06/29/12 10:05	1
1,1-Dichloropropene	ND		0.50		ug/L			06/29/12 10:05	1
1,2,3-Trichlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,2,3-Trichloropropane	ND		0.50		ug/L			06/29/12 10:05	1
1,2,4-Trichlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/29/12 10:05	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L			06/29/12 10:05	1
1,2-Dichlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,2-Dichloroethane	ND		0.50		ug/L			06/29/12 10:05	1
1,2-Dichloropropane	ND		0.50		ug/L			06/29/12 10:05	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,3-Dichlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
1,3-Dichloropropane	ND		0.50		ug/L			06/29/12 10:05	1
1,4-Dichlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
2,2-Dichloropropane	ND		0.50		ug/L			06/29/12 10:05	1
2-Chlorotoluene	ND		0.50		ug/L			06/29/12 10:05	1
4-Chlorotoluene	ND		0.50		ug/L			06/29/12 10:05	1
Benzene	ND		0.50		ug/L			06/29/12 10:05	1
Bromobenzene	ND		0.50		ug/L			06/29/12 10:05	1
Bromochloromethane	ND		0.50		ug/L			06/29/12 10:05	1
Bromodichloromethane	ND		0.50		ug/L			06/29/12 10:05	1
Bromoform	ND		0.50		ug/L			06/29/12 10:05	1
Bromomethane	ND		0.50		ug/L			06/29/12 10:05	1
Carbon tetrachloride	ND		0.50		ug/L			06/29/12 10:05	1
Chlorobenzene	ND		0.50		ug/L			06/29/12 10:05	1
Chloroethane	ND		0.50		ug/L			06/29/12 10:05	1
Chloroform	ND		0.50		ug/L			06/29/12 10:05	1
Chloromethane	ND		0.50		ug/L			06/29/12 10:05	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 10:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 10:05	1
Dibromochloromethane	ND		0.50		ug/L			06/29/12 10:05	1
Dibromomethane	ND		0.50		ug/L			06/29/12 10:05	1
Dichlorodifluoromethane	ND		0.50		ug/L			06/29/12 10:05	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
Hexachlorobutadiene	ND		0.50		ug/L			06/29/12 10:05	1
Isopropylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 10:05	1
Methylene Chloride	ND		5.0		ug/L			06/29/12 10:05	1
Naphthalene	ND		0.50		ug/L			06/29/12 10:05	1
n-Butylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
N-Propylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
o-Xylene	ND		0.50		ug/L			06/29/12 10:05	1
p-Isopropyltoluene	ND		0.50		ug/L			06/29/12 10:05	1

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

Lab Sample ID: MB 440-35961/3
Matrix: Water
Analysis Batch: 35961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50		ug/L			06/29/12 10:05	1
sec-Butylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
tert-Butylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
Tetrachloroethene	ND		0.50		ug/L			06/29/12 10:05	1
Toluene	ND		0.50		ug/L			06/29/12 10:05	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			06/29/12 10:05	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			06/29/12 10:05	1
Trichloroethene	ND		0.50		ug/L			06/29/12 10:05	1
Trichlorofluoromethane	ND		0.50		ug/L			06/29/12 10:05	1
Vinyl chloride	ND		0.50		ug/L			06/29/12 10:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/29/12 10:05*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*06/29/12 10:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 10:05*	*1*

Lab Sample ID: LCS 440-35961/4
Matrix: Water
Analysis Batch: 35961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	30.9		ug/L		124	70 - 130
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	65 - 135
1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	55 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 125
1,1-Dichloroethane	25.0	21.8		ug/L		87	70 - 125
1,1-Dichloroethene	25.0	22.7		ug/L		91	70 - 125
1,1-Dichloropropene	25.0	27.1		ug/L		108	75 - 130
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	65 - 125
1,2,3-Trichloropropane	25.0	22.0		ug/L		88	60 - 130
1,2,4-Trichlorobenzene	25.0	28.6		ug/L		114	70 - 135
1,2,4-Trimethylbenzene	25.0	29.1		ug/L		116	75 - 125
1,2-Dibromo-3-Chloropropane	25.0	28.6		ug/L		114	50 - 135
1,2-Dibromoethane (EDB)	25.0	26.4		ug/L		105	75 - 125
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	75 - 120
1,2-Dichloroethane	25.0	30.2		ug/L		121	60 - 140
1,2-Dichloropropane	25.0	22.6		ug/L		91	70 - 125
1,3,5-Trimethylbenzene	25.0	28.5		ug/L		114	75 - 125
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	75 - 120
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	75 - 120
2,2-Dichloropropane	25.0	26.4		ug/L		105	65 - 140
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 125
4-Chlorotoluene	25.0	24.5		ug/L		98	75 - 125
Benzene	25.0	23.7		ug/L		95	70 - 120
Bromobenzene	25.0	27.1		ug/L		108	75 - 120
Bromochloromethane	25.0	26.2		ug/L		105	70 - 130
Bromodichloromethane	25.0	29.9		ug/L		119	70 - 135

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

Lab Sample ID: LCS 440-35961/4
Matrix: Water
Analysis Batch: 35961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	26.2		ug/L		105	55 - 130
Bromomethane	25.0	30.5		ug/L		122	65 - 140
Carbon tetrachloride	25.0	38.3	*	ug/L		153	65 - 140
Chlorobenzene	25.0	25.9		ug/L		104	75 - 120
Chloroethane	25.0	18.8		ug/L		75	60 - 140
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	23.5		ug/L		94	50 - 140
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 125
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	75 - 125
Dibromochloromethane	25.0	32.0		ug/L		128	70 - 140
Dibromomethane	25.0	28.9		ug/L		116	70 - 125
Dichlorodifluoromethane	25.0	27.2		ug/L		109	35 - 155
Ethylbenzene	25.0	25.6		ug/L		102	75 - 125
Hexachlorobutadiene	25.0	28.3		ug/L		113	65 - 135
Isopropylbenzene	25.0	26.5		ug/L		106	75 - 130
m,p-Xylene	50.0	52.8		ug/L		106	75 - 125
Methylene Chloride	25.0	20.3		ug/L		81	55 - 130
Naphthalene	25.0	27.6		ug/L		110	55 - 135
n-Butylbenzene	25.0	25.1		ug/L		100	70 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	75 - 130
o-Xylene	25.0	26.6		ug/L		106	75 - 125
p-Isopropyltoluene	25.0	26.4		ug/L		105	75 - 125
Styrene	25.0	27.4		ug/L		110	75 - 130
sec-Butylbenzene	25.0	27.0		ug/L		108	70 - 125
tert-Butylbenzene	25.0	26.0		ug/L		104	70 - 125
Tetrachloroethene	25.0	29.3		ug/L		117	70 - 125
Toluene	25.0	25.3		ug/L		101	70 - 120
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	70 - 125
trans-1,3-Dichloropropene	25.0	29.4		ug/L		118	70 - 125
Trichloroethene	25.0	29.9		ug/L		119	70 - 125
Trichlorofluoromethane	25.0	31.2		ug/L		125	65 - 145
Vinyl chloride	25.0	27.7		ug/L		111	55 - 135
Methyl-t-Butyl Ether (MTBE)	25.0	21.2		ug/L		85	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*88*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 440-15189-1 MS
Matrix: Water
Analysis Batch: 35961

Client Sample ID: B-7-W-20120615
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	65 - 140
1,1,1-Trichloroethane	ND		25.0	24.0		ug/L		96	65 - 140
1,1,2,2-Tetrachloroethane	ND		25.0	21.1		ug/L		84	55 - 135
1,1,2-Trichloroethane	ND		25.0	21.3		ug/L		85	65 - 130
1,1-Dichloroethane	ND		25.0	18.4		ug/L		74	65 - 130

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

Lab Sample ID: 440-15189-1 MS
Matrix: Water
Analysis Batch: 35961

Client Sample ID: B-7-W-20120615
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		25.0	20.4		ug/L		82	60 - 130
1,1-Dichloropropene	ND		25.0	24.2		ug/L		97	70 - 135
1,2,3-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 135
1,2,3-Trichloropropane	ND		25.0	22.1		ug/L		89	55 - 135
1,2,4-Trichlorobenzene	ND		25.0	25.5		ug/L		102	65 - 135
1,2,4-Trimethylbenzene	ND		25.0	26.4		ug/L		105	55 - 135
1,2-Dibromo-3-Chloropropane	ND		25.0	27.3		ug/L		109	45 - 145
1,2-Dibromoethane (EDB)	ND		25.0	23.8		ug/L		95	70 - 130
1,2-Dichlorobenzene	ND		25.0	23.8		ug/L		95	75 - 125
1,2-Dichloroethane	ND		25.0	26.7		ug/L		107	60 - 140
1,2-Dichloropropane	ND		25.0	20.1		ug/L		80	65 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.6		ug/L		98	75 - 125
1,3-Dichloropropane	ND		25.0	20.2		ug/L		81	65 - 135
1,4-Dichlorobenzene	ND		25.0	23.0		ug/L		92	75 - 125
2,2-Dichloropropane	ND		25.0	24.4		ug/L		98	60 - 145
2-Chlorotoluene	ND		25.0	22.5		ug/L		90	65 - 135
4-Chlorotoluene	ND		25.0	22.6		ug/L		90	70 - 135
Benzene	0.90		25.0	21.7		ug/L		83	65 - 125
Bromobenzene	ND		25.0	25.1		ug/L		100	70 - 125
Bromochloromethane	ND		25.0	22.4		ug/L		90	65 - 135
Bromodichloromethane	ND		25.0	26.3		ug/L		105	70 - 135
Bromoform	ND		25.0	22.9		ug/L		92	55 - 135
Bromomethane	ND		25.0	25.4		ug/L		102	55 - 145
Carbon tetrachloride	ND	*	25.0	34.7		ug/L		139	65 - 140
Chlorobenzene	ND		25.0	22.0		ug/L		88	75 - 125
Chloroethane	ND		25.0	16.0		ug/L		64	55 - 140
Chloroform	ND		25.0	21.5		ug/L		86	65 - 135
Chloromethane	ND		25.0	18.7		ug/L		75	45 - 145
cis-1,2-Dichloroethene	ND		25.0	20.3		ug/L		81	65 - 130
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	70 - 130
Dibromochloromethane	ND		25.0	26.5		ug/L		106	65 - 140
Dibromomethane	ND		25.0	26.1		ug/L		104	65 - 135
Dichlorodifluoromethane	ND		25.0	19.4		ug/L		78	25 - 155
Ethylbenzene	3.6		25.0	25.5		ug/L		87	65 - 130
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	60 - 135
Isopropylbenzene	ND		25.0	25.7		ug/L		101	70 - 135
m,p-Xylene	ND		50.0	45.9		ug/L		92	65 - 130
Methylene Chloride	ND		25.0	17.7		ug/L		71	50 - 135
Naphthalene	ND		25.0	26.0		ug/L		104	50 - 140
n-Butylbenzene	ND		25.0	23.0		ug/L		92	65 - 135
N-Propylbenzene	0.68		25.0	23.7		ug/L		92	70 - 135
o-Xylene	ND		25.0	22.2		ug/L		89	65 - 125
p-Isopropyltoluene	ND		25.0	24.2		ug/L		97	65 - 130
Styrene	ND		25.0	23.6		ug/L		94	50 - 145
sec-Butylbenzene	ND		25.0	25.2		ug/L		101	70 - 125
tert-Butylbenzene	0.73		25.0	25.2		ug/L		98	65 - 130
Tetrachloroethene	ND		25.0	26.4		ug/L		106	65 - 130
Toluene	ND		25.0	23.4		ug/L		94	70 - 125
trans-1,2-Dichloroethene	ND		25.0	18.7		ug/L		75	65 - 130

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

Lab Sample ID: 440-15189-1 MS
Matrix: Water
Analysis Batch: 35961

Client Sample ID: B-7-W-20120615
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	ND		25.0	25.6		ug/L		102	65 - 135
Trichloroethene	ND		25.0	27.2		ug/L		109	65 - 125
Trichlorofluoromethane	ND		25.0	27.4		ug/L		110	60 - 145
Vinyl chloride	ND		25.0	23.4		ug/L		94	45 - 140
Methyl-t-Butyl Ether (MTBE)	2.3		25.0	20.4		ug/L		72	55 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 440-15189-1 MSD
Matrix: Water
Analysis Batch: 35961

Client Sample ID: B-7-W-20120615
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.4		ug/L		114	65 - 140	7	20
1,1,1-Trichloroethane	ND		25.0	24.9		ug/L		100	65 - 140	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	22.8		ug/L		91	55 - 135	8	30
1,1,2-Trichloroethane	ND		25.0	22.0		ug/L		88	65 - 130	3	25
1,1-Dichloroethane	ND		25.0	19.5		ug/L		78	65 - 130	6	20
1,1-Dichloroethene	ND		25.0	21.5		ug/L		86	60 - 130	5	20
1,1-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 135	1	20
1,2,3-Trichlorobenzene	ND		25.0	27.8		ug/L		111	60 - 135	15	20
1,2,3-Trichloropropane	ND		25.0	24.3		ug/L		97	55 - 135	9	30
1,2,4-Trichlorobenzene	ND		25.0	28.8		ug/L		115	65 - 135	12	20
1,2,4-Trimethylbenzene	ND		25.0	27.4		ug/L		110	55 - 135	4	25
1,2-Dibromo-3-Chloropropane	ND		25.0	31.9		ug/L		128	45 - 145	15	30
1,2-Dibromoethane (EDB)	ND		25.0	25.1		ug/L		100	70 - 130	5	25
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	75 - 125	11	20
1,2-Dichloroethane	ND		25.0	28.2		ug/L		113	60 - 140	5	20
1,2-Dichloropropane	ND		25.0	21.6		ug/L		87	65 - 130	7	20
1,3,5-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	75 - 125	3	20
1,3-Dichloropropane	ND		25.0	21.4		ug/L		86	65 - 135	6	25
1,4-Dichlorobenzene	ND		25.0	24.2		ug/L		97	75 - 125	5	20
2,2-Dichloropropane	ND		25.0	24.8		ug/L		99	60 - 145	1	25
2-Chlorotoluene	ND		25.0	23.0		ug/L		92	65 - 135	2	20
4-Chlorotoluene	ND		25.0	23.2		ug/L		93	70 - 135	3	20
Benzene	0.90		25.0	22.5		ug/L		86	65 - 125	3	20
Bromobenzene	ND		25.0	25.1		ug/L		101	70 - 125	0	20
Bromochloromethane	ND		25.0	23.7		ug/L		95	65 - 135	6	25
Bromodichloromethane	ND		25.0	27.0		ug/L		108	70 - 135	3	20
Bromoform	ND		25.0	25.0		ug/L		100	55 - 135	9	25
Bromomethane	ND		25.0	26.9		ug/L		108	55 - 145	6	25
Carbon tetrachloride	ND	*	25.0	35.5	F	ug/L		142	65 - 140	2	25
Chlorobenzene	ND		25.0	23.6		ug/L		94	75 - 125	7	20
Chloroethane	ND		25.0	16.9		ug/L		67	55 - 140	5	25
Chloroform	ND		25.0	22.1		ug/L		89	65 - 135	3	20

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

Lab Sample ID: 440-15189-1 MSD
Matrix: Water
Analysis Batch: 35961

Client Sample ID: B-7-W-20120615
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	ND		25.0	19.1		ug/L		77	45 - 145	2	25
cis-1,2-Dichloroethene	ND		25.0	21.0		ug/L		84	65 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	70 - 130	7	20
Dibromochloromethane	ND		25.0	29.2		ug/L		117	65 - 140	10	25
Dibromomethane	ND		25.0	28.2		ug/L		113	65 - 135	8	25
Dichlorodifluoromethane	ND		25.0	20.0		ug/L		80	25 - 155	3	30
Ethylbenzene	3.6		25.0	25.8		ug/L		89	65 - 130	1	20
Hexachlorobutadiene	ND		25.0	28.3		ug/L		113	60 - 135	10	20
Isopropylbenzene	ND		25.0	26.5		ug/L		104	70 - 135	3	20
m,p-Xylene	ND		50.0	48.0		ug/L		96	65 - 130	5	25
Methylene Chloride	ND		25.0	18.2		ug/L		73	50 - 135	3	20
Naphthalene	ND		25.0	31.1		ug/L		124	50 - 140	18	30
n-Butylbenzene	ND		25.0	24.9		ug/L		99	65 - 135	8	20
N-Propylbenzene	0.68		25.0	24.0		ug/L		93	70 - 135	1	20
o-Xylene	ND		25.0	24.0		ug/L		96	65 - 125	8	20
p-Isopropyltoluene	ND		25.0	24.8		ug/L		99	65 - 130	2	20
Styrene	ND		25.0	24.1		ug/L		96	50 - 145	2	30
sec-Butylbenzene	ND		25.0	25.8		ug/L		103	70 - 125	2	20
tert-Butylbenzene	0.73		25.0	25.4		ug/L		99	65 - 130	1	20
Tetrachloroethene	ND		25.0	27.0		ug/L		108	65 - 130	2	20
Toluene	ND		25.0	23.5		ug/L		94	70 - 125	1	20
trans-1,2-Dichloroethene	ND		25.0	20.8		ug/L		83	65 - 130	10	20
trans-1,3-Dichloropropene	ND		25.0	28.1		ug/L		113	65 - 135	10	25
Trichloroethene	ND		25.0	28.2		ug/L		113	65 - 125	3	20
Trichlorofluoromethane	ND		25.0	27.4		ug/L		109	60 - 145	0	25
Vinyl chloride	ND		25.0	23.8		ug/L		95	45 - 140	2	30
Methyl-t-Butyl Ether (MTBE)	2.3		25.0	21.4		ug/L		76	55 - 145	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 440-34950/1-A
Matrix: Water
Analysis Batch: 34910

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 34950

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.50		mg/L		06/25/12 11:33	06/25/12 19:31	1
C29-C40	ND		0.50		mg/L		06/25/12 11:33	06/25/12 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*45 - 120*	*06/25/12 11:33*	*06/25/12 19:31*	*1*

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

Lab Sample ID: LCS 440-34950/2-A
Matrix: Water
Analysis Batch: 34910

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 34950

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.704		mg/L		70	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*79*		*45 - 120*

Lab Sample ID: LCSD 440-34950/3-A
Matrix: Water
Analysis Batch: 34910

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 34950

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.811		mg/L		81	40 - 115	14	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*89*		*45 - 120*

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

Lab Sample ID: MB 440-34359/1-A
Matrix: Water
Analysis Batch: 34395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.050		mg/L		06/21/12 11:18	06/21/12 18:48	1
C29-C40	ND		0.050		mg/L		06/21/12 11:18	06/21/12 18:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*45 - 120*	*06/21/12 11:18*	*06/21/12 18:48*	*1*

Lab Sample ID: LCS 440-34359/2-A
Matrix: Water
Analysis Batch: 34395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34359

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.862		mg/L		86	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*95*		*45 - 120*

Lab Sample ID: 440-14866-I-1-A MS
Matrix: Water
Analysis Batch: 34395

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	ND		0.952	0.864		mg/L		91	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*95*		*45 - 120*

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

Lab Sample ID: 440-14866-I-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 34395 — **Prep Batch: 34359**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		0.957	0.818		mg/L		86	40 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*91*		*45 - 120*

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

Lab Sample ID: MB 440-34404/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 34988 — **Prep Batch: 34404**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1221	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1232	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1242	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1248	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1254	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1
Aroclor 1260	ND		1.0		ug/L		06/21/12 14:17	06/25/12 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*06/21/12 14:17*	*06/25/12 16:51*	*1*

Lab Sample ID: LCS 440-34404/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 34988 — **Prep Batch: 34404**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	3.55		ug/L		89	50 - 115
Aroclor 1260	4.00	3.60		ug/L		90	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: LCSD 440-34404/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 34988 — **Prep Batch: 34404**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.53		ug/L		88	50 - 115	1	30
Aroclor 1260	4.00	3.59		ug/L		90	60 - 120	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-35508/1-A
Matrix: Water
Analysis Batch: 35724

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 35508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:22	1
Zinc	ND		0.020		mg/L		06/27/12 11:59	06/27/12 20:22	1
Nickel	ND		0.010		mg/L		06/27/12 11:59	06/27/12 20:22	1
Chromium	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:22	1
Cadmium	ND		0.0050		mg/L		06/27/12 11:59	06/27/12 20:22	1

Lab Sample ID: LCS 440-35508/2-A
Matrix: Water
Analysis Batch: 35724

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 35508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.996		mg/L		100	80 - 120
Zinc	1.00	0.969		mg/L		97	80 - 120
Nickel	1.00	0.978		mg/L		98	80 - 120
Chromium	1.00	0.995		mg/L		99	80 - 120
Cadmium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 440-15573-F-1-C MS
Matrix: Water
Analysis Batch: 35724

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 35508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		1.00	0.986		mg/L		98	75 - 125
Zinc	0.10		1.00	1.04		mg/L		93	75 - 125
Nickel	0.021		1.00	0.955		mg/L		93	75 - 125
Chromium	0.039		1.00	1.01		mg/L		97	75 - 125
Cadmium	ND		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 440-15573-F-1-D MSD
Matrix: Water
Analysis Batch: 35724

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 35508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		1.00	0.963		mg/L		96	75 - 125	2	20
Zinc	0.10		1.00	1.04		mg/L		93	75 - 125	0	20
Nickel	0.021		1.00	0.957		mg/L		94	75 - 125	0	20
Chromium	0.039		1.00	1.02		mg/L		98	75 - 125	1	20
Cadmium	ND		1.00	1.01		mg/L		101	75 - 125	2	20

GC/MS VOA

Analysis Batch: 35961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total/NA	Water	8260B	
440-15189-1 MS	B-7-W-20120615	Total/NA	Water	8260B	
440-15189-1 MSD	B-7-W-20120615	Total/NA	Water	8260B	
440-15189-2	B-3-W-20120615	Total/NA	Water	8260B	
440-15189-3	B-4-W-20120615	Total/NA	Water	8260B	
440-15189-4	B-2-W-20120615	Total/NA	Water	8260B	
440-15189-5	B-8-W-20120615	Total/NA	Water	8260B	
LCS 440-35961/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-35961/3	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 34359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14866-I-1-A MS	Matrix Spike	Total/NA	Water	3510C	
440-14866-I-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
440-15189-1	B-7-W-20120615	Total/NA	Water	3510C	
440-15189-2	B-3-W-20120615	Total/NA	Water	3510C	
440-15189-3	B-4-W-20120615	Total/NA	Water	3510C	
440-15189-4	B-2-W-20120615	Total/NA	Water	3510C	
LCS 440-34359/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 440-34359/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 34395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-14866-I-1-A MS	Matrix Spike	Total/NA	Water	8015B	34359
440-14866-I-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	34359
LCS 440-34359/2-A	Lab Control Sample	Total/NA	Water	8015B	34359
MB 440-34359/1-A	Method Blank	Total/NA	Water	8015B	34359

Analysis Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total/NA	Water	8015B	34359
440-15189-2	B-3-W-20120615	Total/NA	Water	8015B	34359
440-15189-3	B-4-W-20120615	Total/NA	Water	8015B	34359
440-15189-4	B-2-W-20120615	Total/NA	Water	8015B	34359

Prep Batch: 34404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total/NA	Water	3510C	
440-15189-2	B-3-W-20120615	Total/NA	Water	3510C	
440-15189-3	B-4-W-20120615	Total/NA	Water	3510C	
440-15189-4	B-2-W-20120615	Total/NA	Water	3510C	
LCS 440-34404/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-34404/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-34404/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 34910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Silica Gel Cleanup	Water	8015B	34950
440-15189-2	B-3-W-20120615	Silica Gel Cleanup	Water	8015B	34950
440-15189-3	B-4-W-20120615	Silica Gel Cleanup	Water	8015B	34950

GC Semi VOA (Continued)

Analysis Batch: 34910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-4	B-2-W-20120615	Silica Gel Cleanup	Water	8015B	34950
LCS 440-34950/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	34950
LCSD 440-34950/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	34950
MB 440-34950/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	34950

Prep Batch: 34950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Silica Gel Cleanup	Water	3510C SGC	
440-15189-2	B-3-W-20120615	Silica Gel Cleanup	Water	3510C SGC	
440-15189-3	B-4-W-20120615	Silica Gel Cleanup	Water	3510C SGC	
440-15189-4	B-2-W-20120615	Silica Gel Cleanup	Water	3510C SGC	
LCS 440-34950/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 440-34950/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 440-34950/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 34988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total/NA	Water	8082	34404
440-15189-2	B-3-W-20120615	Total/NA	Water	8082	34404
440-15189-3	B-4-W-20120615	Total/NA	Water	8082	34404
440-15189-4	B-2-W-20120615	Total/NA	Water	8082	34404
LCS 440-34404/2-A	Lab Control Sample	Total/NA	Water	8082	34404
LCSD 440-34404/3-A	Lab Control Sample Dup	Total/NA	Water	8082	34404
MB 440-34404/1-A	Method Blank	Total/NA	Water	8082	34404

Metals

Prep Batch: 35508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total Recoverable	Water	3005A	
440-15189-2	B-3-W-20120615	Total Recoverable	Water	3005A	
440-15189-3	B-4-W-20120615	Total Recoverable	Water	3005A	
440-15189-4	B-2-W-20120615	Total Recoverable	Water	3005A	
440-15189-5	B-8-W-20120615	Total Recoverable	Water	3005A	
440-15573-F-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
440-15573-F-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 440-35508/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 440-35508/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-1	B-7-W-20120615	Total Recoverable	Water	6010B	35508
440-15189-2	B-3-W-20120615	Total Recoverable	Water	6010B	35508
440-15189-3	B-4-W-20120615	Total Recoverable	Water	6010B	35508
440-15189-4	B-2-W-20120615	Total Recoverable	Water	6010B	35508
440-15189-5	B-8-W-20120615	Total Recoverable	Water	6010B	35508
440-15573-F-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	35508
440-15573-F-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	35508
LCS 440-35508/2-A	Lab Control Sample	Total Recoverable	Water	6010B	35508
MB 440-35508/1-A	Method Blank	Total Recoverable	Water	6010B	35508

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15189-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

4440-15189 138931

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013 (0911)

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Temp 7.9, 1.9, 3.6°C

Client Name/Address: ARCADIS / 320 Commerce, Suite 200 Irvine, CA 92602

Project/PO Number: B00000101.9708

Project Manager: Toni DeMayo

Phone Number: 714.508.2667

Sampler: LK/BW

Fax Number: 714.730.9345

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: TPH-DRO (8015)	TPH-DRO (8015) w/silicagel cleanup	TPH-GRO (8015)	BTEX (8260)	Cadmium, chromium, lead, nickel, zinc (6010)	Halogenated VOCs (8260B)	PCBs (8082)	TPH-DRO (8015) w/silicagel cleanup	Special Instructions
B-7-W-20120615	W	variety	9	6/15/12	1217	HCl, HNO_3, —	X	X	X	X	X	X	X	X	
B-3-W-20120615	W	variety	9	6/15/12	1525	"	X	X	X	X	X	X	X	X	
B-4-W-20120615	W	variety	9	6/15/12	1545	"	X	X	X	X	X	X	X	X	
B-2-W-20120615	W	"	8	6/15/12	1630	"	X	X	X	X	X	X	X	X	
B-8-W-20120615	W	"	4	6/15/12	1650	"				X	X	X			

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Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
	6/15/12 1834		6/15/12 1834	same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
	6-19-12 17:00			48 hours ____	normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)	
			6/20/12 9:40	intact X	on ice X

5.4°C

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

7/5/2012

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 440-15189-1

Login Number: 15189

List Source: TestAmerica Irvine

List Number: 1

Creator: Perez, Angel

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	