VOLKSWAGEN

GROUP OF AMERICA

July 2, 2012

Ms. Barbara J. Jakub, PG Alameda County Health Care Services Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

Submittal of the Environmental Groundwater Monitoring Report for Volkswagen Automobile Dealership 2740 Broadway Avenue, Oakland, California Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227

Dear Ms. Jakub:

Enclosed please find the report from ARCADIS-US (the "ARCADIS Letter") that was prepared on behalf of Volkswagen Group of America (VWGoA) in response to the letter from the Alameda County Health Care Services Agency (ACEH) to CBRE dated, April 6, 2012.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

We appreciate the opportunity to submit the enclosed report to the ACEH for your consideration, and we look forward to working with you and your team to bring this project to regulatory case closure. If you have any questions or comments, please call me at (248) 754 4339 or Ron Goloubow of ARCADIS at (510) 596-9550.

Sincerely,

S. Eric Carlson Director, Group Marketing, Real Estate & Affiliate Operations

Attachment

RECEIVED

5:46 pm, Jul 09, 2012 Alameda County Environmental Health

> VOLKSWAGEN GROUP OF AMERICA INC 2200 FERDINAND PORSCHE DRIVE HERNDON, VA 20171 -PHONE +1 703 364 7000



Ms. Barbara J. Jakub, PG Alameda County Health Care Services Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

Submittal of the Environmental Groundwater Monitoring Report for Volkswagon Automobile Dealership 2740 Broadway Avenue, Oakland, California Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227

Dear Ms. Jakub:

ARCADIS U.S., Inc. (ARCADIS) was retained by CBRE – Global Corporate Services (CBRE) on behalf of Volkswagen Group of America (VWoA) to provide environmental consulting services for the Volkswagon Automobile Dealership located at 2740 Broadway Avenue, in Oakland, California (the Site). The environmental services are required at the Site in order to respond to the letter from the Alameda County Health Care Services Agency (ACEH) to CBRE dated April 6, 2012. The ACEH letter requests the following scope of work:

- Re-develop and rehabilitate the historical groundwater monitoring and vapor extraction wells
- Conduct groundwater monitoring in accordance with the February 22, 2002 work plan, plus additional analysis of methy tertiary butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), 1,2-dichloroethane (EDC), ethylene dibromide (EDB), and volatile organic compounds (VOCs)
- Submit a work plan to conduct soil vapor monitoring and reporting

The attached environmental groundwater monitoring report satisfies the first two items in the requested scope of work. Per the instructions within the ACEH letter, this report is being submitted via the ACEH FTP site and the State Water Resources Control Board (SWRCB) GeoTracker website.

ARCADIS U.S., Inc. 2000 Powell Street Suite 700 Emeryville California 94608 Tel 510 652 4500 Fax 510 652 4906 www.arcadis-us.com

Environment

Date: July 2, 2012

Contact: Ron Goloubow

Phone: 510.596.9550

Email: ron.goloubow@arcadis-us.com

Our ref: EM001048.0001.00001

Barbara J. Jakub, PG July 2, 2012

Following your review of the enclosed report, ARCADIS and CBRE would like to arrange for a meeting or conference call to discuss the next phase of this project. We look forward to working with you on this important project. If you have questions regarding this report, please call Ron Goloubow at 510-596-9550 or Jay Shipley at 562-496-3001.

Sincerely,

ARCADIS U.S., Inc.

Jay M. Shipley, PE Senior Vice President

N

Ron Goloubow, PG Principal Geologist



Imagine the result

CBRE – Global Corporate Services

Groundwater Monitoring Report

Volkswagon Automobile Dealership 2740 Broadway Avenue Oakland, California

July 2, 2012

Carthin Bell

Caitlin Bell, PE Staff Environmental Engineer

Ron Goloubow, PG Principal Geologist California Professional Geologist (8655)

Jay M. Shipley, PE Senior Vice President



Groundwater Monitoring Report

Volkswagon Automobile Dealership 2740 Broadway Avenue Oakland, California

CBRE - Global Corporate Services

Prepared by: ARCADIS U.S., Inc. 2000 Powell Street Suite 700 Emeryville California 94608 Tel 510 652 4500 Fax 510 652 4906

Our Ref.: EM001048.0001

Date: July 2, 2012

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B Laboratory Analytical Report

Introduction

ARCADIS U.S., Inc. (ARCADIS) was retained by CBRE – Global Corporate Services (CBRE) on behalf of Volkswagen Group of America (VWoA) to provide environmental consulting services for the Volkswagon Automobile Dealership located at 2740 Broadway Avenue, in Oakland, California (the Site). A Site Location Map and a Site Plan are included as Figures 1 and 2, respectively. The scope of the environmental services provided were groundwater monitoring and reporting at the Site in order to respond to the letter from the Alameda County Health Care Services Agency – Alameda County Environmental Health (ACEH) to CBRE dated April 6, 2012. In part, the letter requested completion of groundwater monitoring and reporting. This report documents the recent groundwater monitoring that took place at the Site and satisfies that request.

Background

Based on a review of available historical reports acquired from the ACEH website, soil and groundwater investigation activities have taken place at this Site since 1988 when four underground storage tanks (USTs) were removed from the Site (Engineering Services 1989) : one 1,000 gallon capacity UST (Tank A) used to store waste oil (formerly located near the garage near 27th Street); one 300 gallon capacity UST (Tank B) used to store waste oil (formerly located near the garage near 27th Street); one 300 gallon capacity UST (Tank B) used to store waste oil (formerly located along Broadway Avenue); one 550 gallon capacity UST (Tank C); and one 1,500 gallon capacity UST (Tank D) both used to store gasoline (formerly located along 28th Street). Figure 2 illustrates the locations of the former USTs, groundwater monitoring wells, and soil vapor extraction wells, as adapted from historical reports (Environmental Science and Engineering Inc. November 1991 [ESE 1991b] and QST Environmental 1999) and recent Site reconnaissance.

Soil samples collected during the removal of Tank A did not contain total petroleum hydrocarbons as gasoline (TPHg), or benzene, toluene, ethylbenzene, and total xylenes (BTEX) above laboratory reporting limits (ESE 1989). Soil samples collected during the removal of Tank B contained TPHg at 640 milligrams per kilogram (mg/kg) and total oil and grease at 2,400 mg/kg. Soil samples collected during the removal of Tanks C and D and from soil borings drilled near theses USTs contained elevated concentrations of detectable levels of TPHg, as well as BTEX. In addition, light non-aqueous phase liquid (LNAPL; or free product) was reported to be observed in the excavation during the removal of these USTs.

Groundwater Monitoring Report

Volkswagon Automobile Dealership 2740 Broadway Avenue Oakland, California

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Based on the soil samples collected and observations made during the removal of the USTs a total of six groundwater monitoring wells (MW-1 and MW-3 through MW-7) were installed to a total depth of between 20 and 30 feet below grade in the sidewalk and 28th Street near the former USTs C and D. Groundwater monitoring well MW-2 was installed near the former waste oil UST located near Broadway Avenue (Tank B). Reportedly, three wells (MW-4, MW-5, and MW-6) were abandoned in 1994 leaving wells MW-1, MW-2, MW-3, and MW-7 in place. Additionally, well MW-2 was indicated as an abandoned well in a map included in an ESE report dated 1991 (ESE 1991a) and does not appear on the recent data summary tables. The highest concentrations of TPHg and BTEX have historically been detected in groundwater samples collected from well MW-3 located approximately 50 feet west of USTs C and D located along 28th Street (Mactec. 2003).

A soil vapor and groundwater extraction system reportedly operated at the Site from February 1996 through March 1998. The extraction system was comprised of four vapor and groundwater extraction wells (SV-1 through SV-3 and MW-3; [Mactec. 2003]). The details regarding the operational history of this extraction system were not provided (i.e., flow rates, mass of contaminants removed).

Reportedly, prior to the current groundwater monitoring event, the most recent monitoring event took place at the Site in 1999 (Mactec 2003). Two requests for case closure were provided to the ACEH, one in March 1999 and one in April 2003 (QST Environmental 1999 and Mactec 2003). Based on the ACEH letter both requests for case closure were denied. The requests for case closure were likely denied because the analytical results for the groundwater samples collected from well MW-3 in 1999 after the soil vapor and groundwater extraction system was shut down increased to concentrations that are comparable to concentrations detected prior to operating the soil vapor and groundwater extraction system.

Well Redevelopment

Since the groundwater monitoring wells have not been sampled since 1999, the groundwater monitoring and soil vapor extraction wells were redeveloped to remove sediment from around the screen and to enhance hydraulic communication with the surrounding formation. Three groundwater monitoring wells MW-1, MW-3, and MW-7 and the three vapor extraction wells VW-1, VW-2, and VW-3 were included.

Redevelopment was conducted by Confluence Environmental, Inc. (Confluence) on June 6, 2012. Prior to redevelopment, down-hole piping associated with the former

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vapor extraction wells was removed. Redevelopment included a combination of surging for 10 minutes, followed by pumping. Observations of indicator parameters, including pH, temperature, specific conductance, quantity, and clarity, were recorded after each well volume was purged. For wells that recovered slowly (VW-1 and VW-2), the well was purged dry and then allowed to recover to approximately 80 percent of its static water level before being purged dry again. Each well was developed until a minimum of 6 to 10 well casing volumes were removed, relatively sediment-free water was produced, and indicator parameters stabilized. Copies of the redevelopment logs are provided in Appendix A.

During the removal of the 6 to 10 well casing volumes of groundwater, the indicator parameters stabilized at expected values. However, at most locations, the turbidity measurements remained high, greater than 1,000 nephelometric turbidity units (NTUs). Field observations indicated that the groundwater was relatively sediment-free and the bottom of the well did not contain sediment. Based on these observations, the development was considered successful despite the elevated turbidity measurements.

Confluence observed approximately 0.02 feet of LNAPL in vapor extraction well VW-3. Therefore, this well was not redeveloped in a similar manner to the other wells.

All investigation-derived waste was stored on-Site in four 55-gallon drums with appropriate labels. Currently the waste water is being profiled for off-site disposal.

Well Sampling and Rehabilitation

Confluence conducted groundwater sampling at the Site on June 8, 2012. Prior to commencement of groundwater sampling, each well was inspected and a groundwater elevation measurement was recorded. Some of the monitoring wells and vapor extraction wells were missing locks, bolts, and caps. Confluence replaced several of these items while on-Site.

Depth to water measurements were collected using a water level meter (Table 1). The depth to water level measurement from each well was recorded in the field and the field data are included in Appendix A. ARCADIS did not have any records indicating that well MW-7 was surveyed for location and/or elevation. Thus ARCADIS personnel surveyed the elevation of well MW-7 relative to the other wells at the Site in order to calculate a groundwater elevation for well MW-7 (see Table 1). The groundwater elevations measured at the Site were used to generate a relative groundwater elevation contour map (Figure 3). From this information, groundwater direction was

Groundwater Monitoring Report

determined to be towards the west-northwest under a gradient of 0.02 feet per foot between wells MW-1 and MW-7 and MW-1 and VW-1.

Groundwater purging and sampling was completed using conventional low-flow techniques in accordance with the United States Environmental Protection Agency's (USEPA's) protocol (USEPA 1996). A low-flow peristaltic pump was used to minimize the drawdown during purging. Water quality parameters were monitored during well purging using an in-line monitoring device. Groundwater samples were collected after the water quality parameters had stabilized for at least three successive readings (Table 2).These water quality parameters were recorded in the field and the field data are included in Appendix A.

The exception to this purging and sampling method was vapor extraction well VW-3.In that case, a grab groundwater sample was collected from below the LNAPL present in the well.

Groundwater samples were collected using a low-flow pump into the appropriate laboratory-supplied groundwater sample containers. The sample containers were stored on ice and delivered under chain of custody procedure to Curtis & Tompkins Laboratory (C&T) located in Berkeley, California. Groundwater samples, a duplicate sample, and a trip blank were submitted for the following analysis:

- VOCs using USEPA Method 8260B (this analyses includes BTEX, chlorinated solvents, and fuel oxygenates)
- TPHg, TPH as diesel (TPHd), and TPH as motor oil (TPHmo) using USEPA Method 8015
- Total dissolved solids (TDS) using Standard Method 2540C

All investigation-derived waste, including LNAPL collected from vapor extraction well VW-3, is currently stored on-site in four 55-gallon appropriate labeled drums. The waste water is being profiled for disposal by Instrat, Inc.

Groundwater Monitoring Results

Analytical results for groundwater samples collected at the Site indicate that detectable concentrations of petroleum-related compounds are present in the vicinity of the former gasoline USTs. A summary of the analytical results for groundwater samples collected

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at the Site from historical and recent monitoring events is included in Table 3 and Appendix B. TPHg was detected above laboratory reporting limits in wells VW-2 and VW-3 at concentrations ranging from 36,000 to 120,000 micrograms per liter (μ g/L). TPHd was detected above laboratory reporting limits in wells MW-1, MW-3, VW-2, and VW-3 at concentrations ranging from 56 to 9,300 μ g/L. TPHmo was only detected above the laboratory reporting limit in vapor extraction well VW-3. BTEX compounds were only detected above laboratory reporting limits in vapor extraction wells VW-2 and VW-3. Other petroleum-related VOCs were also detected at low concentrations in these vapor extraction wells. Low concentrations of chlorinated VOCs (CVOCs), such as trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and 1,2-dichloroethane (EDC), were detected above laboratory reporting limits at monitoring well MW-7 (see Table 3).

Per the request of ACEH, in addition to the analytes in the February 2002 work plan (Harding ESE 2002), the following compounds were included in the groundwater analysis: methyl tertiary butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary methyl amyl ether (TAME), EDC, ethylene dibromide (EDB), and VOCs detected as part of USEPA Method 8260. Of these compounds, MTBE was detected in monitoring well MW-1, at an estimated concentration, and EDC was detected in monitoring well MW-7 with the other CVOCs.

Detected concentrations were compared to the Tier I Environmental Screening Levels (ESLs) for shallow soils of less than 3 meters below ground surface and groundwater that is a current or potential source of drinking water (California Regional Water Quality Control Board 2008). These screening levels were chosen as a conservative comparison. Concentrations of TPHg, TPHd, TPHmo, BTEX, and/or naphthalene in wells MW-1, VW-2, and/or VW-3 were detected above the applicable ESL. CVOCs detected in the sample collected from well MW-7 were not at concentrations above the applicable ESL. Table 3 compares the detected groundwater concentrations with the applicable ESL.

Conclusion and Further Actions

The results for the June 2012 groundwater monitoring event suggests that affected groundwater at the Site is localized near the former gasoline USTs (C and D). Fuel and fuel-related compounds were detected above the applicable ESL in groundwater samples collected from wells MW-1, VW-2, and VW-3.

Historical groundwater samples collected from monitoring wells MW-4, MW-5, and MW-6 contained concentrations of petroleum-related compounds above analytical reporting limits. These wells were abandoned in 1994 and could not be sampled during this event. Based on a review of the results for groundwater samples previously collected from these wells (e.g., MW-4 and MW-6), it is possible that the affected groundwater may extend further both to the north and the south of vapor wells VW-2 and VW-3. Therefore, additional investigation may be warranted in this area of the Site to further assess the lateral extent of fuel affected groundwater.

If future groundwater monitoring is to be conducted, additional well rehabilitation activities will be conducted. This includes replacement of well bolts, locks, and/or covers that were identified in a state of disrepair during this monitoring event.

This recent groundwater monitoring event also revealed the presence of a small amount of LNAPL in vapor extraction well VW-3 (0.02 feet within a 4-inch diameter well). The observed LNAPL likely infiltrated into the highly-permeable sediments in the tank pit surrounding VW-3 in the 13 years since the completion of the last groundwater monitoring event. Based on the small amount of LNAPL observed, it is not likely that this observed LNAPL indicates a mobile plume. Additional groundwater monitoring and/or LNAPL (and groundwater) removal at well VW-3 could provide a better understanding of the potential groundwater impacts that are associated with the presence of the observed LNAPL.

The April 2012 letter from ACEH, requested the preparation of a work plan to evaluate whether there is a complete vapor intrusion pathway present at the Site. Based on the results of the recent groundwater monitoring event, it appears that further evaluation regarding the lateral extent of affected groundwater is warranted prior to assessing the soil vapor quality.

ARCADIS and CRBE would like to arrange for a meeting or conference call with representatives of the ACEH to discuss the next phase of work for this propject.

References

- Alameda County Health Care Services. 2012. Work Plan Approval and Request for Additional Work for Fuel Leak Case No. RO0000400 and GeoTracker Global ID T0600100227, Broadway Volkswagen, 2740 Broadway Oakland, California. April 6.
- California Regional Water Quality Control Board San Francisco Bay Region. 2008. Screening for Environmental Concerns at Sites with

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Volkswagon Automobile Dealership 2740 Broadway Avenue Oakland, California

Groundwater Monitoring Report

Contaminated Soil and Groundwater. Interim Final – November 2007. Revised 2008.

- Engineering Services, Inc. 1989. Removal of Four Underground Storage Tanks at Broadway Volkswagen, Oakland, California. February 3.
- Environmental Science & Engineering, Inc. 1991a. Report of Quarterly Activities, Broadway Volkswagen, 2740 Broadway, Oakland, California. July 10.
- 1991b. Report of Quarterly Activities, Broadway Volkswagen, 2740
 Broadway, Oakland, California. 2740 Broadway, Oakland, California.
 November 12.
- Harding ESE. 2002. Workplan for Quarterly Groundwater Monitoring, Broadway Volkswagen, 2740 Broadway, Oakland, California. February 22.
- Mactec. 2003. Sampling and Closure Report, Broadway Volkswagen, 2740 Broadway, Oakland, California. April 21.
- QST Environmental. 1999. Site Closure Report, Property No. 4286, Broadway Volkswagen, 2740 Broadway, Oakland, California. March 1.
- USEPA, 1996. Ground Water Issue: Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures. Office of Solid Waste and Emergency Response. EPA/540/S-95/504. Apr

Volkswagon Automobile Dealership 2740 Broadway Avenue Oakland, California

Tables

Table 1Relative Groundwater Elevation DataVolkswagon Automobile Dealership2740 Broadway AvenueOakland, California

Well	Relative	Well	Total Well	Depth to	Depth to	Relative Groundwater
Number	Well Casing	Diameter	Depth	Product ⁽³⁾	Water (3)	Elevation ⁽²⁾
	Elevation ⁽¹⁾⁽²⁾	(inches)	(feet)	8-Jun-12	8-Jun-12	8-Jun-12
MW-1	29.60	2	19.20	NM	6.03	23.57
MW-3	30.00	2	18.60	NM	8.90	21.10
MW-7	29.84	4	23.50	NM	9.10	20.74
VW-1	30.02	4	18.53	NM	9.01	21.01
VW-2	30.04	4	16.90	NM	8.82	21.22
VW-3	29.45	4	NM	7.70	7.73	21.75

Notes:

(1) Values taken from Mactec. 2003. Sampling and Closure Report, Broadway Volkswagen, 2740 Broadway, Oakland, California. April 21 and field measurements.

(2) In reference to feet above mean sea level. MW-3 was estimated to be 30.00 feet above mean sea level.

(3) In feet below top of casing (approximately at ground surface).

NM = Not measured

Table 2Groundwater Water Quality ParametersVolkswagon Automobile Dealership2740 Broadway AvenueOakland, California

Well ID	Sample Date	Temp. (Celsius)	Cond. (mS/cm)	DO (mg/L)	рН	ORP (mV)
MW-1	06/08/12	18.6	786	0.81	6.3	69
MW-3	06/08/12	17.8	531	7.0	6.6	166
MW-7	06/08/12	18.0	725	1.6	6.6	173
VW-1	06/08/12	17.7	346	2.8	6.7	160
VW-2	06/08/12	17.6	735	1.4	6.6	2
VW-3	06/08/12	NA	NA	NA	NA	NA

Notes:

NA = not analyzed

mg/L = milligrams per liter

Temp. = temperature

Cond. = specific conductance

mS/cm =microSiemens per centimeter

DO = dissolved oxygen

ORP = oxidation-reduction potential

mV = millivolts

Table 3 Summary of Groundwater Analytical Results Volkswagon Automobile Dealership 2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg μg/L	TPHd µg/L	TPHmo µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene μg/L	Total Xylenes μg/L	MTBE µg/L	ΤCE μg/L	cDCE µg/L	EDC µg/L	lsopropyl benzene µg/L	Propyl benzene µg/L	1,3,5- Trimethyl benzene μg/L	1,2,4- Trimethyl benzene µg/L	sec-Butyl benzene µg/L	para- Isopropyl Toluene µg/L	n-Butyl benzene µg/L	Naphthane µg/L	TDS μg/L
	Tier I ESL µg/L	100	100	100	1	40	30	20	5	5	6	50	na	na	na	na	na	na	na	17	na
MW-1	01/21/89	ND	na	na	53	13	1.4	8.2		na	na	na	na	na	na	na	na	na	na	na	na
	05/16/91	130	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	10/18/91	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	10/27/91	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	07/13/93	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	06/27/96	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	09/19/96	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	12/13/96	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
	10/07/97	ND	na	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	08/03/99	ND	na ooo v	na	ND	ND	ND 0.5	ND		na	na	na o r	na o r	na o r	na	na o r	na	na	na	na	na
	06/08/12	<00	290 Y	<300	<0.5	<0.5	<0.5	<0.5	0.3 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	410
MW-2*	01/21/89	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
MW-3	01/21/89	32,000	na	na	9,600	8,200	1,800	6,200		na	na	na	na	na	na	na	na	na	na	na	na
	05/16/91	81,000	na	na	7,800	12,000	1,200	4,000		na	na	na	na	na	na	na	na	na	na	na	na
	10/18/91	73,000	na	na	9,400	8,600	750	3,300		na	na	na	na	na	na	na	na	na	na	na	na
	10/27/91	37000	na	na	7,100	4,900	970	3,500		na	na	na	na	na	na	na	na	na	na	na	na
	07/13/93	41,000	na	na	8,100	6,200	8,100	4,400		na	na	na	na	na	na	na	na	na	na	na	na
	06/27/96	370	na	na	120	75	6.2	47		na	na	na	na	na	na	na	na	na	na	na	na
	09/19/96	15,000	na	na	6,000	2,700	450	2,180		na	na	na	na	na	na	na	na	na	na	na	na
	12/13/96	ND	na	na	30	10	2	7.4		na	na	na	na	na	na	na	na	na	na	na	na
Dup	12/13/96	ND	na	na	21	7	1	4.9		na	na	na	na	na	na	na	na	na	na	na	na
	10/07/97	ND	na	na	ND	ND	ND	ND		na	na	na	na	na	na	na	na	na	na	na	na
Dup	10/07/97	ND	na	na	21	/	1	4.9	5.7	na	na	na	na	na	na	na	na	na	na	na	na
	08/03/99	21,000	na	na	5,500	2,300	470	990		na	na	na o r	na o r	na o r	na	na o r	na	na	na	na	na
	06/08/12	<50	56	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	310
MW-4*	01/21/89																				
	05/16/91	13,000			160	690	250	1,100													
	10/18/91	ND			11	11	ND	15													
	10/27/91	180			6.4	2.8	1.2	6.2													
	07/13/93	320			36	4.4	1.8	5.3													
MW-5*	01/21/89																				
	05/16/91																				
	10/18/91	16,000			3,500	530	670	1,100													
	10/27/91	87			ND	ND	ND	ND													
	07/13/93	90			ND	ND	ND	ND													

Table 3Summary of Groundwater Analytical ResultsVolkswagon Automobile Dealership

2740 Broadway Avenue, Oakland, CA

Well Number	Sample Date	TPHg μg/L	TPHd μg/L	TPHmo μg/L	Benzene µg/L	Toluene μg/L	Ethyl benzene µg/L	Total Xylenes μg/L	MTBE µg/L	TCE μg/L	cDCE μg/L	EDC µg/L	lsopropyl benzene µg/L	Propyl benzene µg/L	1,3,5- Trimethyl benzene μg/L	1,2,4- Trimethyl benzene µg/L	sec-Butyl benzene µg/L	para- Isopropyl Toluene µg/L	n-Butyl benzene µg/L	Naphthane µg/L	TDS μg/L
٦	Γier I ESL μg/L	100	100	100	1	40	30	20	5	5	6	50	na	na	na	na	na	na	na	17	na
MW-6*	01/21/89																				
	05/16/91																				
	10/18/91	28,000			640	2,700	1,100	4,500													
	10/27/91	1,300			48	130	55	230													
	07/13/93	1,100			5.1	30	30	230													
MW-7	01/21/89		na	na						na	na	na	na	na	na	na	na	na	na	na	na
	05/16/91		na	na						na	na	na	na	na	na	na	na	na	na	na	na
	10/18/91		na	na						na	na	na	na	na	na	na	na	na	na	na	na
	10/27/91		na	na						na	na	na	na	na	na	na	na	na	na	na	na
	07/13/93		na	na						na	na	na	na	na	na	na	na	na	na	na	na
	06/27/96	ND	na	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	09/19/96	67	na	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	12/13/96	ND	na	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	10/07/97	ND	na	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	06/08/12	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	4.6	0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	290
VW-1	06/08/12	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	210
Dup	06/08/12	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	210
VW-2	06/08/12	36,000	3,400 Y	<300	1,800	3,000	1,200	4,900	<25	<25	<25	<25	44	140	240	960	<25	<25	70	480	370
VW-3	06/08/12	120,000 Y	9,300	2,000	54	<20	84	640	<20	<20	<20	<20	100	340	650	2,000	37	22	83	240	370

Notes:

Tier I ESL Tier I Environmental Screening Levels (ESLs) for shallow soils of less than 3 meters below ground surface and groundwater that is a current or potential source of drinking water.

TPHg Total Petroleum Hydrocarbons as gasoline

TPHd Total Petroleum Hydrocarbons as diesel

TPHmo Total Petroleum Hydrocarbons as motor oil

- MTBE Methyl tertiary butyl ether
- cDCE cis-1,2-Dichloroethene
- EDC 1,2-Dichloroethane (ethylene dichloride)
- TCE Trichloroethene
- TDS total dissolved solids
- µg/L micrograms per liter
- ND Not detected at or above detection limits (historical limits unknown).
- --- Not analyzed
- na historical data not available
- Dup Duplicate sample
- * Wells abandoned
- < Not detected at or above the laboratory detection limit noted.
- Y Laboratory reports the sample exhibits chromatographic pattern which does not resemble standard.
- J Laboratory reports estimated value.

Figures







	PROPERTY LINE
~~ 	FENCE LINE
	UTILITY LINE
MW-3 😁	MONITORING WELL LOCATION
MW-5 🛞	ABANDONED MONITORING WELL
VW-1 😜	VAPOR EXTRACTION WELL
	FORMER UNDERGROUND STORAGE TANK LOCATION
	(A) WASTE OIL (1,000 GAL); TANK REMOVED, SITE CLEAN

- (B) WASTE OIL (550 GAL), TANK REMOVED
- (C&D) WASTE OIL (550 GAL) AND UNLEADED GASOLINE (3,000 GAL); TANKS REMOVED



REFERENCES: MAP DIGITIZED FROM A SITE PLAN BY ENVIRONMENTAL SCIENCE & ENGINEERING (6/91) AND A SITE PLAN BY QST ENVIRONMENTAL (12/02/96 -REVISED 12/28/98)

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ARCADIS

SITE PLAN

FIGURE 2







REFERENCES: MAP DIGITIZED FROM A SITE PLAN BY ENVIRONMENTAL SCIENCE & ENGINEERING (6/91) AND A SITE PLAN BY QST ENVIRONMENTAL (12/02/96 -REVISED 12/28/98)

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GROUNDWATER ELEVEVATION CONTOUR MAP JUNE 8, 2012





LEGEND

	PROPERTY LINE
<u> </u>	FENCE LINE
	UTILITY LINE
MW-3 😛	MONITORING WELL LOCATION

MW-5 🛞

VW-1

FORMER UNDERGROUND STORAGE TANK LOCATION

ABANDONED MONITORING WELL

VAPOR EXTRACTION WELL

- (A) WASTE OIL (1,000 GAL); TANK REMOVED, SITE CLEAN
- (B) WASTE OIL (550 GAL); TANK REMOVED
- (C&D) WASTE OIL (550 GAL) AND UNLEADED GASOLINE (3,000 GAL); TANKS REMOVED

	Sample Location
TPHg	Total Petroleum Hydrocarbons - Gasoline Range Organics
TPHd	Total Petroleum Hydrocarbons - Diesel Range Organics
В	Benzene
Т	Toluene
E	Ethylbenzene
Х	Total Xylenes
MTBE	Methyl Tertiary Butyl Ether
TCE	Trichloroethene
cDCE	cis-1,2-dichloroethene
EDC	1, 2-Dichloroethane

NOTE: ALL CONCENTRATIONS SHOWN IN MICROGRAMS PER LITER (μ g/L).



REFERENCES: MAP DIGITIZED FROM A SITE PLAN BY ENVIRONMENTAL SCIENCE & ENGINEERING (6/91) AND A SITE PLAN BY QST ENVIRONMENTAL (12/02/96 -REVISED 12/28/98)

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SUMMARY OF GROUNDWATER ANALYTICAL RESULTS



Appendix A

Field Sampling Notes

Job#:	El-120	606	Develop	oer:EM			Client	Arca	dis]
Well II	D: YW-	1	Date: 6	16/12		Site: ည	740 FR	roadu	iau Oa	Kland V.W	
Well d Purge	iam: 1/4" equip: ¿	1" 2"	3" (4") 6" Bladde	Other: r Peri	DTW:	918 Positive	TD Bef	ore: 18	Ext. Syste	TD After: //.	<u>ب</u>
disp baile	r teflon	bailer	other:		Surge t	lock us	ed: 🕜) N			
Length	of time	surge	d prior to	develo	pment:	10min	-				
Pump		intake:	Volume	Multipli	ers: 1"= 0.	04 2"= 0.16	3"= 0.37	4"= 0.65 5	"=1.02 6"= 1	47 Radius ² X 0.163	F
1 Volum	e = 6.09	_ x 10	0=60.9	_ (Total F	Purge)	15 581%	Meter(s):	YSII	PRO PIL	is	-
Time	Temp	pН	Cond (ms/@	Turbidity (NTU)	D.O. (mg/l)	ORP (mV)	Purge Rate	Volume Removed	DTW	Notes	
13 140	18.5	6.6	272	>1000	4.0	101.0		6.1	11.20	It. orange h	and bottom
1428	18.3	6.6	270	857	3.0](0		12.2	11.70	switched .	10. E.S. p-
1935	18.1	6.6	270	22	3.8	116	5.0	18.3	12.15	* after	
1440	18.3	6.7	265	728	4.6	109		24.4	15.48	(+ orange C	olar
144]	18.5	6.7	272	45	2.7	109		30.5	15.90	Dewates	& here
1451	18.4	6.7	272	44	2.5	113		36.6	-	warted for	rectors
1459	18.4	67	273	525	2.6	114		43.0	L.	Devotacil	agan
									Unkna	stuck on so	ona'e thing
-	Feels	as th	ough t	here is	Some	Hama	sittin	in	bottom o	fovell	
obstra	rting	\$ pum	p from	going	to the	absolu	te bod	for of	unill. Ps;	sph lvc,	bailered.
	Parame	ters	Stable	, NTU	\$ 2.50	har	bot	on,	devel	opment	
	Comp	ste :	1.0	S		, 	1.14				
	0	1									1
Did well	dewater	YES)	NO		Total vol	ume remo	ved: 4	3.0	(@)/L)		4
Sample	method (if	fapplicab	le): Disp l	Bailer D	ed. Tubin	g New	Tubing	Ext. Po	ort Other		
Sample	date:		Sample ti	me:			DTW at	sample:	1		4
Sample	ID:			Lab:			Number	of bottle	es:		4
Analysis	<u>;</u>						1				-

į,

Job#:(51-1200	106	Develop	oer:EN	ι		Client	Arca	415		
Well I	D:YW-	2	Date: 6	16/12	12 Site: 2740 Broadway, Oakland VW						
Well d	iam: 1/4"	1" 2"	3" (4") 6"	Other:	DTW: S	8.90	TD Bef	ore: - 6	.93	TD After: /6	
Purge	equip:	S - diam;	> Bladde	r Peri	Waterra	Positive	Air Displa	cement	Ext. Syst	em ,	
disp baile	er teflon	bailer	other:	- 727 - 7525	Surge	block us	ed: (Y) N		10° 11 - 18	
Length	of time	surge	d prior to	develo	pment:	10 min				10 .	
		inlior = 1	Volumo	Multipli	ers: 1'= 0.	04 2"= 0.16	3*= 0.37	4"= 0.65 5	1.02 6"= 1	.47 Radius* X 0.163	
1 Volum	e = 5. 21	x 10	0 = 52.0	_ (Total P	Purge)	Jovery (12	Meter(s):	<u> </u>			
Time	Temp (Cey*F)	рН ·	Cond (ms	Turbidity (NTU)	D.O. (mg/l)	ORP (mV)	Purge Rate (gal or mL/ min)	Volume Removed	DTW	Notes	
1525	17.7	6.3	570	>1000	1.8	-30		5.25	11.35	dek anay w	
1538	17.6	6.45	573	>1000	1.9	-60		p.s	11.90	mild ddb, so vocz	
1544	17.8	6.5	572	21000	1.8	-55	5.0	15.75	15.10	Switched to	
1552	17.9	6.45	572	84	1.5	-53		5.12	11.90e	stant	
559	17.9	6.5	574	2/000	1.7	-55	1	26:25	15.09	derander	
1602	179	6.45	572	2/000	1.7	- 48	1	31.5	15.08	dewappl.	
2		Rech	rae CA	Iculated	C 0.	2:/m	i.				
									_•		
1	Puram	ters	Stabl	, hore	bott	m, u	ater-	urbid	but	pt.	
	Very	silty.	Per cli	art ok	tocall	develo	pmen	Com	pleter.		
	Slighte	H bit	ofsken	notec	linb	uckente			•		
6		Concerning As	2				71				
4	Kemo	red e	Ktractic	- riping	tron	well	to a	ecess.	Need.	y"cap.	
Did well	dewater?	YES)	NO		Total vo	lume remo	oved:		(gal / L)		
Sample	method (i	fapplicat	ole): Disp	Bailer D	ed. Tubir	ng New	Tubing	Ext. Po	ort Other	:	
Sample	date:		Sample ti	me:			DTW at	sample:			
Complo	ID.			Lab:			Number	of bottle	es:		

Job#:	E1-1206	506	Develo	per: ϵ .)	Morse		Client	Arca	dis	
Well I	D: Y W	-3	Date: (6/6/12		Site: 2	740 B	roadw	my, Oak	land VW
Well d	iam: 1/4"	1" 2"	3" (4") 6"	Other:	DTW: 7	7.65	TD Bef	ore: 14	10	TD After:
Purge	equip: E	S - diam:	Bladde	er Peri	Waterra	Positive	Air Displa	cement	Ext. Syst	em
disp baile	er teflon	bailer	other:		Surge	block us	ed: (Y) N		
Length	1 of time	surged	d prior to	o develo	pment:	731	110			
		ntake:	/	Multipli	ers: 1"= 0	.04 2*= 0.16	3"= 0.37	4"= 0.65 5	=1.02 6"= 1	.47 Radius ² X 0.163
(10-0		piler – T	volume		80% Red	covery (1L	DIW;	X 0.20 +	DTW)	
1 Volum	e = <u>.</u>	_ X 10) =	_ (Total P	'urge)		Meter(s):			
Time	Temp (℃/°⊧)	pН	Cond (ms / يَعر)	Turbidity (NTU)	D.O. (mg/l)	ORP (mV)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DTW	Notes
	Upon	init	tial 5	Uraim	of	well	notice	d st	rang O	dor/slim
	rmsis	inter.	65 h	ill s	PI	Jungo	has	i.c	0	,,
	Casisi	- Alloy		1	····;	aroppes	Dal	1	1	
	Cont	ime	. VISU	al an	nant	of SP	H	will	not	· · · · ·
• •) 	deve	lop a	ny fr	ther.	<u></u>	- 8k				5
			.'							
-	Remo	red	extrac	tion pr	piny +	couple	rs in	order	to	
- ¹ 2	acces	s wd	L. W.	Il repl	ne u	oth 4	"cap	for s	amplina	
4	1	×.		112					1-0	
	5		14 ¹⁴ 1	-					_ 10	
				•	194				æ	
			10 ₁₀	• 						
			2							
1.00							8			
		1	1							
Did well	dewater?	YES	NO		Total vol	ume remo	ved:	na social de la	(gal / L)	
Sample	method (if	applicabl	e): Disp E	Bailer D	ed. Tubin	g New	Tubing	Ext. Por	t Other:	
Sample	date:		Sample tir	me:			DTW at	sample:		
Sample	ID:			Lab:			Number	of bottle	s:	
Analysis	:			a ser an						

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Confluence Environmental, Inc

Job#:	E1-120	606	Develo	per: E/	n		Client	Arc	rdis]
Well 1	D: MW	-1	Date:	6/6/12		Site:)	740 B	rondur	W. Oal	Cland VW	1
Well	liam: 1/4	" 1" (2")	3" 4" 6'	Other;	DTW:	6.00	TD Bef	ore:)C	120	TD After: / 9	20
Purge	equip:	ES - diam:	Bladd	er Peri	Waterra	Positive	Air Displi	acement	Ext. Sys	tem	
disp bai	er teflor	n bailer	other:		Surge	block us	sed: 🕥	ÒΝ	10 - 10-0000 - 0000		
Pump	n of time	e surged	d prior t	o develo	pment:	10 min					
(TD - D	TW X Mul	tiplier = 1	Volume	IMUIUPI	180% Por	.04 2"= 0.16	3"= 0.37	4"= 0.65	5"=1.02 6"=	1.47 Radius ² X 0.163	a sala
1 Volun	ne = <u>2.)</u>	x 10) = <u>(), </u>	(Total F	^o urge)		Meter(s):	Y51 1	peo	17	1
Time	Temp	рН	Cond (ms 👍)	Turbidity (טדא)	D.O. (mg/l)	ORP (mV)	Purge Rate (@l or mL/ min)	Volume Removed	DTW	Notes	N.F.
1045	19.9	6.47	820	2/000	2.25	231	1	2.25	8.44	very bord be	Han turbo
1051	19.5	6.23	591	000/د	1.85	222	1.4	4.5	9.98	little silt	
1058	18.7	6.3	585	2/1000	2.3	209		6.75	10.37	cleaning of	nelly
1105	18.6	6.3	579	>1000	3.3	176		9.0	11.12	less furbio	. ·
III	18.3	6.4	573	>1000	4.0	178		11.25	11.44	bard betto	
1117	18.4	6.5	568	>1000	4.7	(77	÷.	13.5	11.58		4.5
1123	18 4	6.5	565	2000	4.8	175	•	15.75	11.65	1 31	1
1131	18.4	6.6	563	>1000	4.8	163		18.0	11.77	In strates	
1137	18.9	6.6	\$562	>pco	4.9	161		20.25	11.80		
]145	18.5	6.6	563	2000	49	162		97.9	11.51		
	Very	Litte	See	diment.	hare	1 60	Hom	sta	ble		S.
	param	sters,	deve	opmin	à con	mpilete					
* 2	2 Jabs	brok	én on	box.							
Did well	dewater?	YES (NO	~	Total volu	ume remo	ved:22	.0	(gal,/ L)		
Sample	method (if	applicabl	e): Disp E	Bailer D	ed. Tubing	New]	Tubing	Ext. Por	t Other		
Sample	date:		Sample ti	me:			DTW at	sample:			
Sample	ID:	_		Lab:			Number	of bottle	s:		
Analysis	:		1								

Well ID: M_U-3 Date: $6-6/12$ Site: 2740 Bodyary, $0.6/low V/W$ Well diam: $1/4^{\circ}$ 1° 1° 2° 4° 6° other: DTW: S_{10} To Before: $[S, S_{10} + V/W]$ Well diam: $1/4^{\circ}$ 1° 1° 2° 4° 6° other: DTW: S_{10} To Before: $[S, S_{10} + V/W]$ Purp depth / intake: 2° diverally 2° Surge block used: (7) N Purp depth / intake: 2° diverally 2° surge block used: (7) N Purp depth / intake: 2° diverally 2° surge block used: (7) N Purp depth / intake: 2° diverally 2° surge block used: (7) N Purp depth / intake: 2° diverally 2° surge block used: (7) N To DTVX Multiplier = 1 Volume B0% Recovery (TD - DTWX 0.20 + DTW) To DTWX Multiplier = 1 Volume B0% Recovery (TD - DTWX 0.20 + DTW) To DTWX Multiplier = 1 Volume B0% Recovery (TD - DTWX 0.20 + DTW) To DTW Motes Meletice: $STRO 10.10 Prevent (200 + DTW) To Do O O To DO O To DO O $	Job#:	El·120	606	Develo	per: EA	n		Client	: Are	adis		1
Well diam: 1/4" 1/2 3* 4* 6* other: DTW: 5.76 TD Before: [8.55 TD After:]% Purge equip: Es - diam: Bladder Derive: Air Displacements DTW: 5.76 TD Before: [8.55 TD After:]% Diver Air Displacements Diver Structure Surge block used: (7) N Length of time surged prior to development: 10 you's DIVX Multiplier = 1 Volume Block used: (7) DTW X 0.20 + DTW) The form of the development: 10 you's Network: YST PRO 10:01/7 6:01 Cond Turbidity D.0. ORP Water(s: YST PRO 10:01/7 6:41 Block used: (7) DTW Notes Time (Cond Total volume Water(s: YST PRO 10:01/7 6:41 DIV Mode: Solution of the form Cond Turbidity D.0. OFF	Well I	D: MW-	3	Date:	6-6/1:	2	Site: 27	140 B	molen	r. Oak	land VW	1
Purge equip: ES - dim: Bladder Peri Waterra Chastibus Alr Displacement) Ext. System disp baler tefton baler CherrArcish Surge block used: N N Length of time surged prior to development: 10 ynix. N N Understand Multipliers: -oos 3***********************************	Well d	iam: 1/4"	1"(2")	3" 4" 6"	Other:	DTW:5	8.76	TD Bef	ore: 18	.55	TD After: 18	10
disp baller tefton baller conterp. Art Life Surge block used: (*) N Length of time surged prior to development: [O rown. Pump depth/ intake: Billow Multipliers:	Purge	equip:	ES - diam:	Bladde	er Peri	Waterra	Positive	Air Displa	cement	Ext. Syst	em	
Length of time surged prior to development: 10 million of time surged prior to development: 10 million of time surged prior to development: 10 million of the surged prior to development and the surged prior to development and the surged prior to develop of the surged prior to development and the surged	disp baile	er teflon	bailer <	other:A.	LifD	Surge	block us	ed: (Y) N		S2-52.	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pump	depth/	e surgeo	d prior t	o develo	pment:	10 mir	<u>\.</u>				l
4.74 I Volume = 1.56 x 10 = 15.6 (Total Purge) Meter(s): $VST RO$ 10.71/280% Time Temp (PS) P pH Cond (ms(3)) Turbidity (my/) D.O. (my/) ORP (my/) Purge Rate (MW/) DTW Notes 920 17.7 6.41 657 >1000 S.G. D.353 0.25 1.6 9.10 Notes 928 20.2 7.0 391 >1000 7.4 2.6 6.35 3.2 9.65 suiffedual are to sit 924 18.1 6.94 393 >1000 7.8 2.11 0.25 9.8 11.3 5 hard bottom 924 18.1 6.94 393 >1000 7.5 205 0.25 5.4 12.35 DTW still provide are to sit 924 18.1 6.7 390 >1000 7.5 205 0.25 7.0 12.05 Stuffdual are to the provide are to sit 925 17.8 6.67 390 >1000 7.5 205 0.25 10.20 hard bottom 0.14 11.45 11.45 11.45	(TD - D	TW X Mult	iplier = 1	Volume	Imatch	80% Red	.04 2"= 0.16	3"+ 0.37	$4^{*}=0.65$ 5 X 0 20 +	"=1.02 6*= 1	.47 Radius ² X 0.163	1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	٩.٦ 1 Volum	e = <u>].56</u>	× 10) = [5.6	(Total F	ourge)		Meter(s):	YSIR	8	10.7138	0%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Time	Temp	рН	Cond (ms	Turbidity (NTU)	D.O. (mg/l)	ORP (mV)	Purge Rate (ga)or mL/ min)	Volume Removed	DTW	Notes	
938 2.0 391 $2/000$ 7.4 22.6 4.55 5.11 2.57 5.11 944 18.1 6.94 393 $2/000$ 7.8 211 0.25 4.8 11.35 hard bettern 5.11 950 17.7 6.82 390 $2/000$ 7.5 205 0.25 5.4 12.855 $DRU still due prints 955 17.8 6.7 390 2/000 7.5 205 0.25 7.0 12.20 5.04 pump 644 1002 17.8 6.7 390 2/000 7.5 205 0.25 7.0 12.20 5.04 pump 644 1008 17.8 6.65 395 2/000 7.5 205 0.25 10.2 hard bottern 11.41 sinthered bottern 1008 17.8 6.65 390 2/000 7.47 20.6 0.25 13.6 2.51 11.81 12.58 12.58 11.2.58 11.$	920	17.7	6.41	657	7000	8.6	2.35.3	0.25	1.6	9.10	hard botto	n, turbid.
944 18.1 6.94 393 >1000 7.8 2.11 0.25 9.8 11.3 5 hard before 7.8 2.11 0.25 5.4 12.85 DTW still defore 5.9 7.8 2.10 2.10 5.9 7.8 2.12 5.9 7.9 2.12 5.9 7.9 2.12 5.9 7.9 2.12 5.9 7.9 2.12 5.9 7.9 2.12 5.9 7.9 2.12 5.9 1.1	928	20.2	7.0	391	>/000	7.4	226	<0.25	3.2	9.65	switched ou	brown will
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	944	18.1	6.94	393	2/000	7.8	211	0.25	4.8	11.35	hard bottom	~ P.A.D.
355 17.8 6.7 390 >000 7.5 205 0.25 7.0 1220 Shut pump off 1002 17.8 6.7 392 >1000 7.5 203 0.25 8.6 2.35 hurbid ver 1; ille silt 1003 17.8 6.65 395 >1000 7.5 203 0.25 8.6 2.35 hurbid ver 1; ille silt 1008 17.8 6.65 395 >1000 7.5 204 0.25 11.8 12.62 hard botton. 014 17.8 6.65 391 >1000 7.45 205 0.25 11.8 12.53 020 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.51 1828 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.58 1828 17.8 6.65 390 >1000 7.45 204 0.25 16.50 12.58 1028 17.8 6.65 390 7100 750 <	950	17.7	6.82	390	>/000	7.5	205	0.25	5. Y	12.85	DTW still de	PPIN Xri
1002 17.8 6.7 392 >1000 7.5 203 0.25 8.6 2.35 hurbid ver 1, it le silt 1008 17.8 6.65 395 >1000 7.5 204 0.25 10.2 12.62 hard bottom 014 17.8 6.65 391 >1000 7.47 206 0.25 11.8 12.62 hard bottom 014 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.51 020 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.51 1028 17.8 6.65 390 >1000 7.50 204 0.25 16.0 12.58 1028 17.8 6.65 390 >1000 7.50 204 0.25 16.0 12.58 1028 17.8 6.65 390 >1000 Total volume removed: / 6.0 (ga)/ L 12.58 104 well dewater? YES NO Total volume removed: / 6.0 (ga)/ L 12.58 3	955	17.8	6.7	390	>1000	7.5	205	0.2.5	7.0	12.20	Shut pump	strictly
1008 17.8 6.65 395 >1000 7.5 204 0.25 10.2 12.62 hard bottom. 014 17.8 6.65 391 >1000 7.47 206 0.25 11.8 12.52 020 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.51 1228 17.8 6.65 390 >1000 7.45 205 0.25 13.6 2.51 1228 17.8 6.65 390 >1000 7.45 205 0.25 16.0 12.58 1228 17.8 6.65 390 >1000 7.5° 204 0.25 16.0 12.58 1228 17.8 6.65 390 >1000 7.5° 204 0.25 16.0 12.58 1238 17.8 6.65 390 >1000 10.158 10.158 10.158 101 Well dewater? YES NO Total volume removed: 16.0 (ga)/ L) Sample method (if applicable): Disp Bailer Ded. Tubing New	1002	17.8	6.7	392	2000	7.5	203	0.25	8.6	2.35	turbidver	hitle silt
014 17.8 6.65 391 21000 7.47 206 0.25 11.8 2.55 020 17.8 6.65 390 21000 7.45 205 0.25 13.6 2.51 1028 17.8 6.65 390 21000 7.45 205 0.25 13.6 2.51 1028 17.8 6.65 390 21000 7.50 204 0.25 16.0 12.58 Parameters stabilized, hard bottom, relatively Little sediment in well, Development complete Int well, Development c	1008	17.8	6.65	395	2/000	7.5	204)	025	10.2	12.62	hard bottom	
020 17.8 6.65 390 2000 7.45 205 0.25 13.6 2.51 1028 17.8 6.65 390 2000 7.50 204 0.25 16:0 12.58 Parameters stabilized, hard bottom, velatively Little Sediment in well, Development complete 1 1 Did well dewater? YES NO Total volume removed: 16.0 (ga)/L) Sample method (if applicable): Disp Bailer Ded. Tubing New Tubing Ext. Port Other: Sample date: Sample time: DTW at sample: Number of bottles: Number of bottles:	1014	17.8	6.65	391	21000	2.47	206	0.25	11.8	12.55		
1028 17.8 6.65 390 7.60 204 0.25 16.0 12.58 Parameters stabilized, hard bottom, relatively Little Sediment in well, Development complete Did well dewater? YES NO Total volume removed: 16.0 (ga)/L) Sample method (if applicable): Disp Bailer Ded. Tubing New Tubing Ext. Port Other: Sample date: Sample time: DTW at sample: Number of bottles:	1020	17.8	6.65	390	21000	7.45	205	025.1	13.6	2.51		
Parameters stabilized, hard bottom, relatively Little sediment in well, Development complate Did well dewater? YES NO Total volume removed: 16.0 (ga)/L) Sample method (if applicable): Disp Bailer Ded. Tubing New Tubing Ext. Port Other: Sample date: Sample time: DTW at sample: Number of bottles:	1028	17.8	6.65	390	71000	7.50	204	0.25	16:0	12.58		
in well, Development complete Did well dewater? YES Did well dewater? YES Sample method (if applicable): Disp Bailer Ded. Total volume removed: Jub 2000 Tub 2000	5 B	Pa roum	eters	stabili	zel, ha	id bo	Hom,	relas	isiely	Li #1e	- Sedimon	ł
Did well dewater? YES NO Total volume removed: /6.0 (ga)/L) Sample method (if applicable): Disp Bailer Ded. Tubing New Tubing Ext. Port Other: Sample date: Sample time: DTW at sample: Sample ID: Lab: Number of bottles:		in w	el);	Develo	pment	cempl	te					
Sample method (if applicable): Disp Bailer Ded. Tubing New Tubing Ext. Port Other: Sample date: Sample time: DTW at sample: Sample ID: Lab: Number of bottles:	Did well	dewater?	YES (NO		Total vol	ume remo	ved: //	.0	(ga)/L)		-
Sample date: Sample time: DTW at sample: Sample ID: Lab: Number of bottles:	Sample	method (if	applicabl	le): Disp l	Bailer D	ed. Tubin	g New	Tubing	Ext. Po	rt Other:		
Sample ID: Lab: Number of bottles:	Sample	date:	1010	Sample ti	me:		1.00	DTW at	sample:			
	Sample	ID:			Lab:			Number	of bottle	s:		
Analysis:	Analysis	1										

Confluence Environmental, Inc

3308 El Camino Ave, Suite 300 #148, Sacramento, CA 95821, 916-760-7641

			1					_		
Job#:(E1.1206	06	Develo	per: E	μ.		Client	Arc	<i>idis</i>	Maria
Well II	. MW	7	Date: 6	16/m		Site: ථ	740 B	rondw.	my Oal	(land YW
Well di	iam: 1/4"	1" 2"	3" (4) 6"	Other:	DTW:	1.10	TD Bef	ore: 2	3.50	TD After:
Purge	equip: 7	8 - dlam	Bladde	er Peri	Waterra	Positive	Air Displa	cemen	Ext. Syst	em
disp baile	r teflon	bailer	other:		Surge	block us	ed: ()	N		
Length	of time	surge	d prior t	o develo	pment:	10 mm	~	6-10-041 S	é Caratan i ku sa	
Pump	depth/	intake:		Multipli	ers: 1"= 0	.04 2*= 0.16	3"= 0.37	4*= 0.65 5	*=1.02 6*= 1	.47 Radius ² X 0.163
(10-01	VV X Mult	plier = 1	Volume		80% Red	covery (TL) - DTW) %	X 0.20 +	DTW)	
1 Volum	e = <u>9.36</u>	<u>5 x 10</u>	p = 93.6	(Total F	Purge)	1.9850	Meter(s):	<u>YSI</u>	PROPh	13
Time	Temp	pН	Cond (ms/@	Turbidity (NTU)	D.O. (mg/l)	ORP (mV)	Purge Rate (Gal or mL/ min)	Volume Removed	DTW	Notes
1240	20.9	6.7	397	2/000	1.55	123		9.5	10.85	hard both
1302	19.9	6.5	385	51000	2.0	126		18.0	11.15	untermi
1318	20:0	6.4.	384	51000	2.0	122		27.5	11.30	It. grey
1325	19.9	6.5	382	>1000	2.5	109	5.0	37.0	17.97	Switched +
1327	19.5	6.45	384	>1000	19	102		46.5	1965	
1330	19.7	6.4	386	Spes	1.1	102		57.0	20.15	waited brie
1335	19.6	6.4	391	>1000	1.0	103		66.5	20.77	to ampty
1337	19.5	6.3	390	>1000	0.9	107	¥	77.0	2). 10	Firbid, Li
339	19.6	6.3	387	3/000	0.7	107		86.5	21.55	warted for
1345	19.6	6.3	390	2/000	0.8	105		97.0	17.10	
	Pro	te	e 4 11	-	1.11		1	• •	2	
10	Der	long 3	Jab	No.t.	1170	Sell	trent	INW	ব্রম	1
2	yar	pm	ni (m	pere						5
	need	loc	King	cap y	+ lock	1				
Did well	dewater?	YES (NO		Total vol	ume remo	ved: 9	2.0	(ga)/L)	
Sample I	method (if	applicab	le): Disp l	Bailer D	ed. Tubin	ng New	Tubing	Ext. Po	ort Other:	
Sample	date:		Sample ti	me:	1.0		DTW at	sample:		
Sample	ID:			Lab:			Number	of bottle	es:	
Analysis										

-55

Job #:E/-	12.00	60	G				Techr	nicia	in:	E.	M	3			Page / of/
					En	try Indie	ates De	ficier	ncy						
Inspection Point	Well Inspected - No Corrective Action Required	Cap non-functional	Lock non- functional	Lock missing	Bolts missing (# missing / # total tabs)	Tabs stripped (# stripped / # total tabs.)	Tabs broken (# broken / # of total tabs)	Annular seal Incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (Note any repairs made while on site)
MW-1		X	X		\angle	\angle	25								2"cap
MW-3			X		44	4	/								df.) e
MW-7		X		X	\angle	~	12								
VW-1	4				44	44	\angle								extention in well re
VW-2					99	44	\leq								1
VW-3					99	44	\angle								1 1
					\square	/	/								
						/	/				_				
					/	/									
					\angle	\angle	\leq								
					\angle	\angle	\angle								
					\angle	\angle	\angle	-							
					\angle	\angle	\angle								
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					\angle	/	\angle								
					\angle										
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							/								
															2
						/									

Well Maintenance Inspection Form

Repair codes: rt=retap/ bolts added or replaced as=annular seal repair,

Confluence Environmental, Inc

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Drum Log

Drum(s) L	ocation On	Site: I	nside	NE	Bay	gar	nge	7	1000	between	MW-1 = Vh
a. 6.			# of dru	ms		ater	10	rn)		5	
Date		full	partial	empty	total	contents (s=soil w=w m=mixed ?=uriknown)	labeled (y or n)	label legible (y o	tech initial	Notes:	
blok	Arritual				0		_		er		
6/12	Departure	3	1	1	5	W	Y	Y	En		
0	Arrival										
	Departure									27 12	
	Arrival										
	Departure										
	Arrival										
	Departure										
	Arrival										
	Departure										
	Arrival										
	Departure										
	Arrival										6.
	Departure				<u> </u>						
	Arrival										
	Departure										
	Arrival								-		
	Departure										

Confluence Environmental, Inc

		E	quipme	ent Calibra	ation Log	1			
Equipment make/model	Equipment ID/ serial number	Date	Time	Calibration Standards	Equipment Reading	Equipment Calibrated	Temp	Tech init.	Comments
YSI PRO	12A100565	6/6/12	815	Q0,05,04. 149	4,7,10.0		14.0	en	
			স্থান্থ	DD. 100%	100.1%	J	16.5	GA	
			820	Cond 1413	1413	J	15.0	20	
4		1	822	ORP 244-D	244.0	J	15.0	q.	
								5) 2	
a.									
N			4					1	

Notes/comments:



Confluence Environmental, Inc. 3308 El Camino Ave, Suite 300 #148 Sacramento, CA 95821 916-760-7641 - main 916-473-8617 - fax www.confluence-env.com

Chain of Custody

Page___ of___

Project Name: VW Dealership, Oakland

Job Number:

141-120600

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

Lab:	Curtis & Tompkins					Site Address: 274	0 Bro	oadw	ay. O	aklan	d						Confluence	PM: Jas	on Br	own		7 11 - 1
Add	ress: 2323 Fifth St, Berke		California Global	ID N	o.:	TO	50010	0222	7					Phone / Fax:	916-76	0-764	1 / 916-473-8	517				
Cont	tact:					Include EDF w/	Rep	ort:	Yes	ľ	No	*Per a	greement with	h Arc	adis	1	Confluence	Log C	ode:	CESC		
Phor	ne/ Fax: 510-486-0900					Consultant / PM:	Arc	adis /	Ron	Golo	oouw				1000	1	Report to:	Ron	Golo	bouw & Caitl	in Bell	
					Certifica	Phone / Fax:	510	-596-	9550		1						Invoice to:	Area	idis		(Contraction)	
	C 1 . 2			M	latrix				I	rese	rvati	ve			Requ	este	d Analysis		_			
	Sample ID	Sample ID Time Date Water/Liquid						Unpreserved	HrSO4	HNO ₃	HCI	NaOH	VOC's with fuel Oxy's, BTEX, Chlorinated Solvents including TCE (82608)	TPH-G (8015)	(2015) & MO (8015)	TDS (2540C)				Notes an	d Comme	ents
	MW7	2a	4/8/1		~		9	3			U		X	×		x			T		212-0-122	
	12/1/11	4830	1		Ň		1	1						-		~						
	MUU	200	+		~		+		-	-				~	~	~			-			
	MUB	940			x_{\perp}									~	X	7		_				distant i
	VW2	NOS			X								\times	7	×	<		_				1
	MWi	105			X		Π	П		1.			X	~	x	-						
	1.12	luca			V		1	H			1			100								
\vdash	1005	100					-	<u> </u>	-	-	-			X	×	*		-				
\vdash		-			X		12				L											
					-													1	-			
										0				1								
															1							
Com	alan'a Namar "> //								731 (104)/19						10 17 27-88	-				I	1	
Sam	aler's Company: Confluer	i ice Env	ironme	ntal	e	Reli	nguis	hed B	v/Aff	iliatio	n		Date	-	Tim	-	Acc	epted, B	v/Affi	iliation	Date	Time
Ship	ment Date:	RC LITY	nonine	Ital		- Carta	2	-	-				0,0/12	-	1173	-	por,	[las		\sim	619112	17:43
Ship	nent Method:					1											14		6	/ /		
Speci	al Instructions:																			5	<u></u>	
	(m) (1)													200	0.00 - 550							

Drum Log

orum(s) l	ocation On	Site: II	nside	NE	Bay	900	nge	7	JOOR	between	MW-1 ~ VI
		#	# of dru	ms		S (s=soil w=water unknown)	(y or n)	gible (y or n)	tial	2	
Date		full	partial	empty	total	content m=mixed 7=	labeled	label le	tech ini	Notes:	
6/6/02	Arrival			-	0		-	-	er		
16/12	Departure	3	1	1	5	W	Y	Y	Sn		
6/8/12	Arrival	3	1	1	5	w	Y	7	34		
6/10/12	Departure	4			4	ω	У	¥	Bus		
17	Arrival			+							
	Departure										
	Arrival										
1	Departure										
	Arrival										
_	Departure					<u> </u>					
	Arrival										
	Departure										
	Arrival								1.5		
	Departure									_	
	Arrival										
	Departure										
	Arrival										
	Departure										

Confluence Environmental, Inc.

Confluence Environmental, Inc

Equipment Calibration Log

Equipment make/model	Equipment ID/ serial number	Date	Time	Calibration Standards	Equipment Reading	Equipment Calibrated	Temp (°C / °F)	Tech init.	Comments
YSI Pro Series	#133	Le/o/L	700	47,10	4.97.0	У	19	家族	
				1413	1413	V	19	Jus	
				100%	100%	у	19	Bir	
				240	240	V	19	Bus	
					6				

Notes/comments:
ob #: 11-	200	108	3				Techr	nicia	in:	8	Br	4			Page / of /
					En	try India	cates De	ficier	ıcy						
Inspection Point	Nell Inspected - Ne Corrective No Corrective Action Required Cap non-functiona Lock non- functional Lock missing		Bolts missing (# missing / # total tabs)	Tabs stripped (# stripped / # total tabs.)	Tabs broken (# broken / # of total tabs)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard	Below Grade	Other (explain in notes)	Well Not Inspected (explain in notes)	Notes (Note any repairs made whi on site)		
407				X		\angle	32								
463				X	44	/									vault (2"c"
MWJ				X	/		1/2								5/12 CAD (4"
VWI		X		X	4										vault (4" c
VWZ				X	44				1					1	vanit (4" car
VW3				X	4/4	\nearrow	\square								Vault
					/		./								
					/										
					/	/									
					/	/									
					/	/	/			Ī					
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Well Maintenance Inspection Form

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Repair codes: rt=retap/ bolts added or replaced as=annular seal repair,

Water Level N	deasurements
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Vell I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)		
MU 1000	usz	2			6.03	19.20		Toc		
uwz	446	2			8.90	18.00				
lw7	640	4	-		9.10	23.50				
lw i	643	4			9.01	18.53				
ω2	649	4			8.82	16.90			21	
/w 3	700	4	7.70		7.73			T		
								2		
			*							
				10						
				1.1.1				and a second		
							1 1 1			

Job#:	M1-120	608	Sample	r:	B Myers		Client:	1	Arcadis	
Well I	D: MU	1	Date:	6/8/12		Site:	VW Dea	lership,	Oakland	
Well o	liam: 1/4	1" 1" (2	") 3" 4"	6" Other:		DTW: (e	.03	Tota	Denth	1920
Purge	equip:	ES - dia	m: Blad	der Peri	Waterra	a Positive	Air Displa	ement	Ext. Systen	1
disp bail	er tefle	on bailer	other:		Tubing	: OD: 🤇	New	Dedicated	NA	
Purge	metho	d: 3-5	5 Case Volur	ne Micro/	Low-Flow	Extraction	Other:			
Pump	depth/	' intake	e: 15	Multipli	ers: 1"= 0.0	04 2"= 0.16 3	"= 0.37 4"=	0.65 5"=1	.02 6"= 1.47	Radius ² X 0.163
(TD - D	TW X Mu	Itiplier =	1 Volume		80% Rec	overy (TD -	DTWX).20 + D	TW)	
1 Volun	ne =	×	3 =	(Total F	Purge)			80%=_		
Time	Temp	рН	Cond (ms / s)	Turbidity (NTU)	Purge Rate (gal ormL/min)	Volume Removed (gal/L)	D0 (mg/l)		DTW	Notes
1029	18.4	6.4	742	B	700	lockim 1	1.1	66	6.35	
1032	18.6	6.3	732	7	1	1.2L	1.1	68	le.35	-
1035	18.5	63	780	7		1.81	0.98	70	4.35	
1038	185	4.3	791	4		2.41	0.87	70	6.35	
1041	18.5	6.3	780	6		36	0.82	29	6.35	
1014	18.6	6.3	786	4		3.4L	0,81	69	6.35	
			-							
Did well	dewater	? YES	NO)	Total volu	ume remove	ed: 3.C	ol (gal / L)	
Sample	method:	Disp Ba	iler Dec	d. Tubing	New Tub	ing) Ext.	Port Ot	her:		
Sample	date: 6	0/12	Sample tir	ne:	1045	-	DTW at s	ample:	6.35	
Sample	ID: 1	iul				Lab: C&T		Number	of bottles:	9
Analysis		VOC's p	olus Oxy's,	TPH-G, TI	PH-D & M	O, TDS				
Equipme	ent blank	ID	@		Field blan	k ID	@			
Duplicat	e ID:		223		Pre-purge	DO:	Post purge DO:			
e2+:	e2 ⁺ :					ORP:	Post purge ORP:			
NAPL d	epth:		Volume of	NAPL:			Volume removed: ml			

Job#:	M1-120	608	Sample	r:	B Myers	2	Client:	÷.	Arcadis	
Well 1		i	Date:	6/8/12		Site:	VW Dea	lership,	Oakland	
Well	diam : 1/4	" 1" (2)	3" 4"	6" Other:		DTW: 8	3.70	Tota	Depth:	18 60
Purge	equip:	ES - dia	m: Blac	lder Peri	Waterra	a Positive	Air Displac	cement	Ext. System	n
disp bai	ler teflo	n bailer	other:		Tubing	: OD: 🤇	New	Dedicated	NA	
Purge	metho	d: 3-5	Case Volu	ne Micro/	Low-Flow	Extraction	Other:			
Pump	depth/	intake	1 1/2	Multipli	ers: 1"= 0.0	04 2*= 0.16 3*	= 0.37 4"=	0.65 5"=1	.02 6*= 1.47	Radius ² X 0.163
(10-6		iupiier -	1 volume	5	180% Rec	overy (TD -	DIWX).20 + D	1W)	
1 Volur	ne =	<u> </u>	3 =	(Total F	^o urge)			80%=_		
Time	Temp	рН	Cond	Turbidity (งาบ)	Purge Rate (gai or mL/ min)	Volume Removed	DO (mg/l)		DTW	Notes
alb	17.7	10.6	530	В	200	Gam	7.0	168	9,15	
913	17.8	lele	531	7	.	1.22	7.0	107	9.20	
914	17.8	6.6	531	1		1,42	7.0	icele	9.20	
919	17.8	4.6	531	7	1	2.46	7.0	164	9,20	
			-						11. A	
		1. 12	9791					100	(11.1 m)	
				-						
Did wel	l dewater'	YES	NO		Total volu	ume remove	ed: 2.4	11	(gal / L)	
Sample	method:(Disp Ba	iver De	d. Tubing	New Tub	oing Ext.	Port Ot	her:		
Sample	date: (//s	In	Sample ti	me: 9	20		DTW at s	sample:	9,20	
Sample	ID: MU	à				Lab: C&T		Number	r of bottles:	9
Analysi	3:	VOC's p	olus Oxy's,	TPH-G, T	PH-D & M	O, TDS				
Equipm	ent blank	ID	@		Field blar	nk ID	@			
Duplica	te ID:				Pre-purge	e DO:	Post purge DO:			
Fe2 ⁺ :					Pre-purge	ORP:	Post purge ORP:			
NAPL c	lepth:	-	Volume of	NAPL:			Volume removed: ml			

Job#:	M1-120	608	Sample	r;	B Myers		Client:	8	Arcadis	
Well 1		爭	Date:	6/8/12		Site:	VW Dea	lership,	Oakland	
Well (diam: 1/4	f" 1" 2	· 3" 🕢	6" Other:		DTW: 9	10	Tota	Depth:	23 50
Purge	equip:	ES - dia	m: Blad	lder Peri	Waterra	a Positive	Air Displa	cement	Ext. Syster	n
disp bai	ler teflo	n bailer	other:		Tubing	: OD: 🤇	New 2	Dedicated	NA NA	
Purge	metho	d: 3-5	Case Volur	ne Micro/	Low-Flow	Extraction	Other:			
Pump	depth/	intake	e: 79	Multipli	ers: 1*= 0.0	04 2"= 0.16 3	*= 0.37 4"=	0.65 5"=1	.02 6"= 1.47	Radius ² X 0.163
(TD - D	TW X Mu	Itiplier =	1 Volume		80% Rec	overy (TD -	DTWX).20 + D	TW)	
1 Volur	ne =	X	3 =	(Total F	^o urge)			80%=_	-	
Time	Temp	рН	Cond (ms /ms)	Turbidity (טדא)	Purge Rate (gai or mL/ min)	Volume Removed (gal / L)	DO (mg/i)	ORP (mv)	DTW	Notes
735	18.1	8.2	751	В	2auni	4aum1	(e.)	161	9.7.6	
738	18.0	7.7	738	8		1.22	2.7	165	9.30	
741	18.0	7.4	737	8		1.8L	20	148	9.33	
744	18.0	7.1	736	В		2.42	1.5	170	9.33	
747	18.0	4.9	732	7		34	1.3	172	9.33	
750	18.0	4.8	730	7		3.CoL	1.3	172	9.33	
753	18.1	4.6	728	6		4,26	1.5	172	9.34	
75C	18,1	le.le	726	5		4.81	14	172	9.34	
75-9	18.0	6.6	725	5	L	5.4L	1.6	173	931	
Did wel	dewater	2 YES	(NO)		Total volu	Ime remove	ed: 5	//	(02) (1)	
Sample	method:	Disp Ba	iler Dec	d. Tubina (New Tut	bind Ext	Port Ot	her:	(garr c)	
Sample	date: 6/	8/2	Sample tir	ne 42	e e		DTW at s	sample:	934	
Sample	ID: M	ŴΠ				Lab: C&T	Difficient	Numbe	r of bottles:	9
Analysis	s:	VOC's p	olus Oxy's,	TPH-G, TI	PH-D & M	O, TDS				
Equipm	ent blank	ID	@		Field blan	ik ID	0			
Duplicat	te ID:		17-17-190-		Pre-purge	e DO:				
Fe2+:					Pre-purge	ORP:	Post purge ORP:			
NAPL d	epth:		Volume of	NAPL:			Volume	e remov	ed:	ml

-										
Job#:	M1-1206	308	Sample	r:	B Myers		Client:		Arcadis	
Well I	D: VW1		Date:	6/8/12		Site:	VW Deal	lership, (Oakland	
Well d	iam: 1/4	" 1" 2	3"(4")	5" Other:		DTW: 9	3.01	Total	Depth:	8.53
Purge	equip:	ES - dia	m: Blad	der Peri	Waterra	e Positive	Air Displac	ement	Ext. System	
disp baile	er teflo	n bailer	other:		Tubing	: OD: 🤇	New 2	edicated	NA	
Purge	metho	d: 3-5	Case Volur	ne Micro/	Low-Flow	Extraction	Other:			
Pump	depth/	intake	e: /7	Multiplie	ers: 1*= 0.0	04 2"= 0.16 3"	= 0.37 4"=	0.65 5"=1	.02 6"= 1.47 F	Radius ² X 0.163
(10-0	I W X Mu	itiplier =	1 Volume		80% Rec	overy (TD -	DTWXC).20 + D	TW)	
1 Volum	ie =	<u> </u>	3 =	(Total F	Purge)			80%=_		
Time	Temp	рН	Cond (mS/y8T)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	D0 (mg/l)	ORP (mv)	DTW	Notes
870	17.6	4.8	349	7	200	(100m1	3.1	165	9,70	
823	17.4	6.7	348	7		1.2	2,8	14	9.23	
ELP	17.7	6.7	347	6		1.8C	28	1102	9.25	
829	17.6	6.7	346	6		2.42	2,8	102	9.27	
632	17.6	4.7	344	le		36	2,8	161	9.7.8	
835	17.7	6.7	344	6	<u> </u>	3.Col	2.8	160	9,28	
) 			= 100							
							<u></u>			
Did well	dewater	YES	(NO)	2	Total volu	ume remove	ed: 3, 4	,L	(gal / L)	
Sample	method:	Disp Ba	iler De	d. Tubing	New Tut	ing Ext.	Port Of	her:		
Sample	date: 4/	8/2	Sample ti	me: 6	335		DTW at s	sample:	9,28	
Sample	ID: Ú	J				Lab: C&T		Numbe	r of bottles:	9
Analysis		VOC's	plus Oxy's,	TPH-G, T	PH-D & M	O, TDS				
Equipme	ent blank	ID	@		Field blar	nk ID	@			
Duplicat	e ID:	DUP			Pre-purge	e DO:				
Fe2 ⁺ :					Pre-purge	ORP:				
NAPL d	epth:		Volume of	NAPL:			Volum	e remov	ed:	ml

Job#:	M1-120	608	Sample	er:	B Myers	1	Client:	1	Arcadis	
Well 3	D: VUT	2	Date:	6/8/12		Site:	VW Dea	lership,	Oakland	
Well	diam: 1/4	¥" 1" 2'	3" (4")	6" Other:		DTW: 9	1.92	Total	Depth: /	10 90
Purge	equip:	ES - dia	m: Blac	Ider Peri) Waterra	e Positive	Air Displac	ement	Ext. System	1
disp bai	ler teflo	on bailer	other:		Tubing	<u>: od:</u> 🤇	New 2	edicated	NA	
Purge	metho	d: 3-5	Case Volu	ne Micro/	Low-Flow	Extraction	Other:			
Pump	depth/	intake	<u>e: 79</u>	Multipli	ers: 1"= 0.0	04 2"= 0.16 3"	'= 0.37 4*≃	0.65 5*=1.	.02 6"= 1.47	Radius ² X 0.163
<u>(ID-D</u>	TWX MU	iltiplier =	1 Volume		180% Rec	overy (TD -	DTWXC	0.20 + D	TW)	1.000
1 Volur	ne =	<u> </u>	3 =	(Total F	Purge)			80%=_		
Time	Temp	pН	Cond (ms/ලි)	Turbidity (איזט)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
945	п.5	6.5	733	8	200	600	0.92	51	9.15	
948	17.7	6.5	734	4		1.24	0.88	35-	9.15	
951	17.6	6.6	734	4		1.62	1.0	23	9,15	
954	17.60	6.6	736	6		246	1.3	14	9,15	
757	17.7	4.6	734	5	-	36	1.5	10	9.15	
iwo	17.6	6.6	735	5		3.66	1.4	4	9.15	
1123	17.6	6.6	735	5	1	4.UL	1.4	2	9,15	
				<u>d</u>				3 ⁴¹		
							. 2			
	I dewater	<u>Pien Re</u>		d Tubics	Total volu		ed: 0.	<u>CC</u>	gal / L)	-
Sample	method.	sl.a	Constant	a. Tuping	New Tut	Ding) Ext.		ner:	915	-
Sample	ID: V	WZ	Sample ti	me: /	005	Lab: C&T	DIWats	sample: Number	of bottles:	9
Analysi	s:	VOC's p	olus Oxy's,	TPH-G, T	PH-D & M	O, TDS				
Equipm	ent blank	ID	@		Field blar	nk ID	@			
Duplica	te ID:				Pre-purge	e DO:	Post purge DO:			
e2+:	e2 ⁺ :					ORP:	Post purge ORP:			
VAPL o	lepth:		Volume of	NAPL:			Volume removed: ml			

Job#:	M1-120	608	Sample	r:	B Myers		Client:	i i	Arcadis	
Well I	D:VW	3	Date:	6/8/12		Site:	VW Dea	lership,	Oakland	
Well d	liam: 1/4	" 1" 2'	3" 4"	6" Other:		DTW: 7	73	Total	Denth	
Purge	equip:	ES - diar	n: Blad	lder Peri	Waterra	a Positive	Air Displa	cement	Ext. Syste	em
disp baile	er teflo	n bailer	other:		Tubing	: OD: 🤇	New	Dedicated	NA	
Purge	metho	d: 3-5	Case Volur		Low-Flow	Extraction	Other:	Service		
Pump	depth/	intake		Multipli	ers: 1'- 0.0	04 2"= 0.16 3"	'= 0.37 4"=	0.65 5"=1.	.02 6"= 1.47	Radius ² X 0.163
(TD - D	TW X Mu	tiplier =	1 Volume		80% Rec	overy (TD -	DTW X ().20 + D	TW)	
1 Volum	ie =	X :	3 =	(Total I	^o urge)			80%=_		
Time	Temp (°c / °F)	рH	Cond (mS / µS)	Turbidity	Purge Rate (gal	Volume Removed	DO (ma/l)		DTW	Notes
6.03	soh d	etede	L. L	TD	Inde	checke		1.02	las las	a).
	Spir C	,		+.··, ((subic	A I	1 21	ecith	VCACE	, 100
Mud	Insi	de	bailer.	but 1	utside	or be	tiler i	was	coate	rd
hea	avily	with	SPA.	12						
								You		
C	inh	san	nle.	taken	from	below	J SP	17		
	No	Dava	uneters	talu	n c	ture -	10	SPA		
	then	, KGI	red to	bing d	tried	to ra	Emore	SPH	ļ.	
	OUNT	X	100 -1	SPI) (Emacol				
	r r									
	2			-						
Did well	dewater	VES	NO		Total us		di			
Comete	math - J	Dies D		J 75. 6 '				. (gal/L)	
sample	method:	UISP Ba	lier Dec	a. Tubing		bing Ext.	Port Of	iner:		
Sample	date: 6/	5/12	Sample tir	ne: //	00		DTW at s	sample:		·
Sample	ID: VL	JJ				Lab: C&T		Number	of bottles	: 9
Analysis		VOC's p	olus Oxy's,	TPH-G, T	PH-D & M	O, TDS				
Equipment blank ID @					Field blan	ik ID	0			
Duplicate	e ID:				Pre-purge	e DO:	Post purge DO:			
Fe2*:					Pre-purge	ORP:	Post purge ORP:			
NAPL de	epth: 7,	70	Volume of	NAPL:	0.03		Volume removed: ml			

ARCADIS

Appendix B

Laboratory Analytical Report



and setting to the

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Laboratory Job Number 236951 ANALYTICAL REPORT

Arcadis	Project	::	EM001048.0001-0001
2000 Powell St.	Location		VW Dealership, Oakland
Emeryville, CA 94608	Level		II

<u>Sample ID</u>	<u>Lab ID</u>
MW7	236951-001
VWl	236951-002
MW 3	236951-003
VW2	236951-004
MWl	236951-005
VW3	236951-006
TB	236951-007
DUP	236951-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

They Bobyon

Signature:

Project Manager

Date: <u>06/18/2012</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 236951 Arcadis EM001048.0001-0001 VW Dealership, Oakland 06/08/12 06/08/12

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 06/08/12. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/18/12.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

High response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 06/14/12 10:56; affected data was qualified with "b". High recoveries were observed for tert-butyl alcohol (TBA) in the BS/BSD for batch 187602; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):

No analytical problems were encountered.



Confluence Environmental, Inc. 3308 El Camino Ave, Suite 300 # 148 Sacramento, CA 95821 916-760-7641 - main 916-473-8617 - fax www.confluence-env.com

Chain of Custody

230	695	١
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Page____ of _____

Project Name: <u>VW Dealership, Oakland</u>

Job Number: MI-1

<u>M1-120608</u>

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

Lab: Curtis & Tompkins Site Address: 2740 Broadway, Oakland							Confluence PM: Jason Brown																		
Add	ress: 2323 Fifth St, Berkele	ey, CA				California Global	ID N	lo.:	TO	60010	0222	7	-					Phon	e / Fa	•x: 9	16-7 (50-764	11 / 916-473-86		
Con	tact:					Include EDF w/	Rep	ort:	Yes	1	No	*Per	agree	ement wit	h Arc	adis		Confluence Log Code: CESC							
Phor	ne/ Fax: 510-486-0900					Consultant / PM:	Arc	adis /	/ Ron	Golol	bouw							Repo	rt to:		Ron	Golo	bouw & Caitl	in Bell	
╞──	1					Phone / Fax:	510	-596	-9550	,								Invoi	ce to:	:	Arca	adis			
				M	latrix]	Prese	rvati	ve				Requ	ieste	d Ana	Analysis						
	Sample ID	Time	Date	Soil/Solid	Water/Liquid Air	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO3	HCI	VaOH		/OC's with fuel Oxy's, BTEX, Chlorinated Solvents including 'CE (8260B)	TPH-G (8015)	ГРН-D & MO (8015)	'DS (2540C)						Notes and	ł Comme	nts
1	MW7	the	4/8/12	\square	$\overline{}$		9	3	Ť –		4								╈	=====	=	1			
2	EVW)	1835			×		HT I	F	+		ا			×	~	<u>~</u>	Ĺ.		-+	\rightarrow	-+				
3	MWB	920		╟╌┼	2			$\ +$		╉──┤	++			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~	Ĥ		+	-+					
4	VW2	1115	╞┼─	┠╴╫	<u>~</u>		╟╂┦	╟┼╴	\vdash	╉──┤	┟┼┙			\mathcal{L}		<u>×</u>	7		+	\rightarrow			∦		
5	(III)	1000	<u> </u> - <u> </u>	ŀť	$\frac{1}{\sqrt{2}}$		╟╫┦	╟┼	┼──	╂──┤	┟╂─┙				T -	<u>×</u>	5				-+				
6	11.12	1075		┠╍┼	+		<u> </u>	\mathbb{H}	┼─	+	┟╉┷			_X	~	×	2		_	\rightarrow			·		
\vdash		100	┢╌┼─┥	╟─┼	<u>4</u> -	 		Ē	┢	┟──┤				\	X	×	と		-+				l		
$\left -\right $	'	╟──┤		╟┼┥	<u>Х</u> —	 	2	┣—			2			×.	\leq										
			 	╟┼	<u> </u>				Ļ																
 	·																								
				\square					Γ																
Sampler's Name: B. Mycrs			Relir	<u>1quist</u>	hed B	<u>v / Af</u>	filiatio	n	<u> </u>		Date		Tim					ted.B	1 v / Aff	<u>iliation</u>	Date	Time			
Sampler's Company: Confluence Environmental			tere	_		Z							114	5	TP-	đ	Z	T.	<u></u>		6/9/12	11:45			
Shipr	Shipment Date.				\geq						-					-					<u>}</u>				
Specia	al Instructions:		<u></u>			<u>IL</u>					<u> </u>	ä .	<u></u> ll												

COOLER RECEIPT CHECKLIST

CD	Curtis	
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Login #	236年	Date R	leceived 619	bliz N	umber of coolers	s 1
Client	ARCP	PIS	Project	YW	Dealtership, ogt	LAND
	a				$\int \int \int \int$	
Date Opene	d <u>G18/12</u>	By (print)	1 CHO	(sign)	de	
Date Logge	d in 🔬	_ By (print)	<u> </u>	(sign)	V	
1. Did coole Ship	er come with ping info	a shipping slip	(airbill, etc)		YES	NO
2A. Were cu How	ustody seals j v many	present? [N] YES (circle) ame	on cooler	on samples	NO NO
2B. Were cu	istody seals i	ntact upon arriv	ral?		YES	NO (N/A)
3. Were cus	tody papers of	lry and intact w	hen received?			NO 😏
4. Were cus	tody papers I	illed out proper	ly (ink, signed,	etc)?	KES	NO
5. Is the pro	be nacking it	ble from custoc	ly papers? (If see describe)	o fill out top o	f form)	NO
			ci, desenioe)			
	oth material	Foam bl	ocks 🕅	Bags	□ None	1
7. Temperat	ure documer	tation * N	Intify PM if ter	Styroioam	Paper tov	vels
Type	e of fice used:	[//wet] Blue/Gel	None	$I emp(^{\circ}C)$	
X Sa	amples Rece	ived on ice & co	old without a te	mperature bla	nk; temp. taken v	vith IR gun
j⊠ Sa	amples recei	ved on ice direc	tly from the fie	ld. Cooling pr	ocess had begun	
8. Were Me	thod 5035 sa	umpling contain	ers present?		Y	FS NO
If YE	ES, what time	e were they tran	sferred to freez	er?	¥	
9. Did all bo	ttles arrive u	nbroken/unoper	ned?		ð	ES NO
10. Are there	e any missing	g / extra sample:	s?			ES) NO
11. Are sam	ples in the ap	propriate conta	iners for indica	ted tests?	¥	ES NO
12. Are sam	ple labels pre	esent, in good co	ndition and co	mplete?	&	ES NO
13. D0 me sa	iniple labels	agree with cust	bdy papers?			ES NO
15 Are the s	amples appr	n of sample sen	u for tests reque			ES NO
16. Did you	check preser	vatives for all b	ottles for each a	sample?		NO N/A
17. Did you	document vo	ur preservative	check?		1ES J	
18. Did you	change the h	old time in LIM	S for unpreserv	ved VOAs?	YES 1	
19. Did you	change the h	old time in LIM	S for preserved	l terracores?	YES	NO NO
20. Are bubb	oles > 6mm a	bsent in VOA s	amples?			N/A
21. Was the	client contac	ted concerning	his sample del	ivery?	Y]	es (ND)
If YE	S, Who was	called? <u>K.</u>	olan By	TIBOS	7 Date:	-8-12
COMMENT	S					
	Dia	(x)	Mach	him	house	100
dinnico	te bor	alling	le c i	971	nowede	06-7
	- 00					
12 100 1 2 10	<u>, ; ., i i</u>		T	2		
tecd G M	ifis label "Te Difis + 1 Poly	3" not Usted/m + 2Amber Con	taners labo	Jep · DUP" 1	was marked I be	<u>ouesteb</u> 1's Not 6N COC.
20)-007 [TE	J-20f2	volhs recid will b	Abbles		R	ev 10, 11/11
11-1-	/ /		Ra	×	1	
~010	11	n po				

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		Total	Volatil	.e Hydrocar	bons	
Lab #:	236951			Location:		VW Dealership, Oakland
Client:	Arcadis			Prep:		EPA 5030B
Project#:	EM001048.000	01-0001		Analysis:		EPA 8015B
Matrix:	Water			Sampled:		06/08/12
Units:	ug/L			Received:		06/08/12
Field ID:	MW7			Diln Fac:		1.000
Type:	SAMPLE			Batch#:		187511
Lab ID:	236951-001			Analyzed:		06/12/12
A	nalyte		Result		RL	
Gasoline C7-	C12	NI)		50	
Su	rrogate	%REC	Limits			
Bromofluorob	enzene (FID)	84	76-121			
Field ID:	VW1			Diln Fac:		1.000
Туре:	SAMPLE			Batch#:		187511
Lab ID:	236951-002			Analyzed:		06/13/12
A	nalyte		Result		RL	
Gasoline C7-	C12	NI)		50	
Su	rrogate	%REC	Limits			
Bromofluorob	enzene (FID)	86	76-121			
Field ID:	MW3			Diln Fac:		1.000
Туре:	SAMPLE			Batch#:		187511
Lab ID:	236951-003			Analyzed:		06/13/12
A	nalyte		Result		RL	
Gasoline C7-	C12	NI)		50	
Su	rrogate	%REC	Limits			
Bromofluorob	86	76-121				

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 1 of 3



		Total	Volatil	le Hydrocan	rbons	
Lab #:	236951			Location:		VW Dealership, Oakland
Client:	Arcadis			Prep:		EPA 5030B
Project#:	EM001048.000	01-0001		Analysis:		EPA 8015B
Matrix:	Water			Sampled:		06/08/12
Units:	ug/L			Received:		06/08/12
Field ID:	VW2			Diln Fac:		20.00
Type:	SAMPLE			Batch#:		187608
Lab ID:	236951-004			Analyzed:		06/15/12
7-	nalvte		Pegult		PT.	
Gasoline C7-C		3	6,000		1,000	
			.,		,	
Sui	rrogate	%REC	Limits			
Bromofluorobe	enzene (FID)	96	76-121			
Field ID:	MW1			Diln Fac:		1.000
Туре:	SAMPLE			Batch#:		187608
Lab ID:	236951-005			Analyzed:		06/15/12
Ar	nalyte		Result		RL	
Gasoline C7-C	212	NI)		50	
Sui	rogate	%REC	Limits			
Bromofluorobe	enzene (FID)	94	76-121			
Field ID:	VW3			Diln Fac:		100.0
Туре:	SAMPLE			Batch#:		187511
Lab ID:	236951-006			Analyzed:		06/12/12
Ar	nalyte		Result		RL	
Gasoline C7-C	212	12	0,000 Y		5,000	
Sur	rrogate	%REC	Limits			
Bromofluorobe	93	76-121				

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 2 of 3



		Total	Volatil	.e Hydrocar	bons	
Lab #:	236951			Location:		VW Dealership, Oakland
Client:	Arcadis			Prep:		EPA 5030B
Project#:	EM001048.000)1-0001		Analysis:		EPA 8015B
Matrix:	Water			Sampled:		06/08/12
Units:	ug/L			Received:		06/08/12
Field ID:	DUP			Diln Fac:		1.000
Type:	SAMPLE			Batch#:		187511
Lab ID:	236951-008			Analyzed:		06/13/12
A	nalyte		Result		RL	
Gasoline C7-	-C12	NL)		50	
Su	ırrogate	%REC	Limits			
Bromofluorok	enzene (FID)	79	76-121			
Type:	BLANK			Batch#:		187511
Lab ID:	QC643767			Analyzed:		06/12/12
Diln Fac:	1.000					
Z	nalyte		Result		RL	
Gasoline C7-	-C12	NĽ)		50	
Su	irrogate	%REC	Limits			
Bromofluorok	enzene (FID)	84	76-121			
Type:	BLANK			Batch#:		187608
Lab ID:	QC644174			Analyzed:		06/14/12
Diln Fac:	1.000					
P	nalyte		Result		RL	
Gasoline C7-	-C12	NĽ)		50	
Su	ırrogate	%REC	Limits			
Bromofluorobenzene (FID)		86	76-121			

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 3 of 3



Total Volatile Hydrocarbons								
Lab #:	236951	Location:	VW Dealership, Oakland					
Client:	Arcadis	Prep:	EPA 5030B					
Project#:	EM001048.0001-0001	Analysis:	EPA 8015B					
Туре:	LCS	Diln Fac:	1.000					
Lab ID:	QC643766	Batch#:	187511					
Matrix:	Water	Analyzed:	06/12/12					
Units:	ug/L							

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,099	110	79-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	87	76-121



Total Volatile Hydrocarbons									
Lab #:	236951	Location:	VW Dealership, Oakland						
Client:	Arcadis	Prep:	EPA 5030B						
Project#:	EM001048.0001-0001	Analysis:	EPA 8015B						
Field ID:	ZZZZZZZZZ	Batch#:	187511						
MSS Lab ID:	236990-001	Sampled:	06/07/12						
Matrix:	Water	Received:	06/09/12						
Units:	ug/L	Analyzed:	06/12/12						
Diln Fac:	1.000								

Type:	MS			Lab ID:		QC643768		
	Analyte	MSS Re	esult	Spike	d	Result	%REC	Limits
Gasoline	e C7-C12	1	1.70	2,000		1,925	96	68-120
	Surrogate	%REC	Limits					
Bromoflu	lorobenzene (FID)	93	76-121					
Туре:	MSD			Lab ID:		QC643769		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	e C7-C12		2,000		1,923	96	68-120	0 21
	Surrogate	%REC	Limits					

Bromofluorobenzene (FID) 92 76-121



Total Volatile Hydrocarbons									
Lab #:	236951	Location:	VW Dealership, Oakland						
Client:	Arcadis	Prep:	EPA 5030B						
Project#:	EM001048.0001-0001	Analysis:	EPA 8015B						
Туре:	LCS	Diln Fac:	1.000						
Lab ID:	QC644173	Batch#:	187608						
Matrix:	Water	Analyzed:	06/14/12						
Units:	ug/L								

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	850.1	85	79-120
Surrogate	%REC Limits			

-			
Bromofluorobenzene	(FID)	104	76-121



Total Volatile Hydrocarbons					
Lab #:	236951	Location:	VW Dealership, Oakland		
Client:	Arcadis	Prep:	EPA 5030B		
Project#:	ЕМ001048.0001-0001	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	187608		
MSS Lab ID:	237058-008	Sampled:	06/12/12		
Matrix:	Water	Received:	06/12/12		
Units:	ug/L	Analyzed:	06/14/12		
Diln Fac:	1.000				

Туре:	MS			Lab ID:		QC644232		
	Analyte	MSS Re	esult	Spike	d	Result	%REC	Limits
Gasoline	C7-C12	38	31.2	2,000		2,327	97	68-120
	Surrogate	%REC	Limits					
Bromofluo	probenzene (FID)	112	76-121					
Туре:	MSD			Lab ID:		QC644233		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		2,000		2,188	90	68-120	6 21
	Surrogate	%REC	Limits					

Bromofluorobenzene	(FID)	110	76-121



- \\Lims\gdrive\ezchrom\Projects\GC04\Data\166-023, A

mVolt



- \\Lims\gdrive\ezchrom\Projects\GC07\Data\164-006, A

mVolt



mVolt

mVolt



		Total Extracta	able Hydroc	arbo	ns
Lab #:	236951		Location:		VW Dealership, Oakland
Client:	Arcadis	01 0001	Prep:		EPA 3520C
Matrix:	Water	01-0001	Sampled:		06/08/12
Units:	ug/L		Received:		06/08/12
Diln Fac:	1.000		Prepared:		06/11/12
Batch#:	187477		-		
Field ID:	MW7		Lab ID:		236951-001
Type:	SAMPLE		Analyzed:		06/14/12
	Analvte	Result		RL	
Diesel C10	-C24	ND		50	
Motor Oil	C24-C36	ND		300	
	Surrogate	%PFC Limits			
o-Terpheny	1	93 61-129			
<u> </u>					
Field ID: Type:	VW1 Sample		Lab ID: Analyzed:		236951-002 06/12/12
-750			111017200		
Diogol C10	Analyte	Result		<u>RL</u>	
Motor Oil	C_{24}			300	
110001 011	021 030	n.b		500	
	Surrogate	%REC Limits			
o-Terpheny	F_	94 61-129			
Field ID:	MW 3		Lab ID:		236951-003
Type:	SAMPLE		Analyzed:		06/12/12
	Analyte	Result		RT.	
Diesel C10	-C24	56		50	
Motor Oil	C24-C36	ND		300	
	Surrogate	%REC Limits			
o-Terpheny	·1	91 61-129			
Field ID:	VW2		Lab ID:		236951-004
Type:	SAMPLE		Analyzed:		06/14/12
	Analyte	Result		RL	
Diesel C10	-C24	3,400 Y		50	
Motor Oil	C24-C36	ND		300	
	Surrogate	%REC Limits			
o-Terpheny	1	99 61-129			



		Total Extract	table Hydroc	arbor	ns
Lab #: Client: Project#:	236951 Arcadis EM001048.00	001-0001	Location: Prep: Analysis:		VW Dealership, Oakland EPA 3520C EPA 8015B
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 187477		Sampled: Received: Prepared:		06/08/12 06/08/12 06/11/12
Field ID: Type:	MW1 SAMPLE		Lab ID: Analyzed:		236951-005 06/12/12
Ar Diesel C10-C2 Motor Oil C24	alyte 24 4-C36	Result 290 Y ND		RL 50 300	
Sur o-Terphenyl	rogate	%REC Limits 94 61-129			
Field ID: Type:	VW3 SAMPLE		Lab ID: Analyzed:		236951-006 06/14/12
Ar Diesel C10-C2 Motor Oil C24	alyte 24 1-C36	Result 9,300 2,000		RL 50 300	
Sur o-Terphenyl	rogate	%REC Limits 106 61-129			
Field ID: Type:	DUP SAMPLE		Lab ID: Analyzed:		236951-008 06/12/12
Ar Diesel C10-C2 Motor Oil C24	alyte 24 1-C36	Result ND ND		RL 50 300	
Sur o-Terphenyl	rogate	%REC Limits 96 61-129			
Type: Lab ID:	BLANK QC643617		Analyzed:		06/13/12
Ar Diesel C10-C2 Motor Oil C24	nalyte 24 4-C36	Result ND ND		RL 50 300	
Sur o-Terphenyl	rogate	%REC Limits 107 61-129			

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit $_{\rm Page\ 2\ of\ 2}$



		Total 1	Extracta	ble Hydrocarbo	ns			
Lab #:	236951			Location:	VW Dealership	, Oaklan	d	
Client:	Arcadis			Prep:	EPA 3520C			
Project#:	EM001048.000	1-0001		Analysis:	EPA 8015B			
Matrix:	Water			Batch#:	187477			
Units:	ug/L			Prepared:	06/11/12			
Diln Fac:	1.000			Analyzed:	06/13/12			
Type: Lab ID:	BS QC643618			Cleanup Method:	EPA 3630C			
Ana	lyte		Spiked	Result	%REC	Limits		
Diesel C10-C24			2,500	2,101	84	59-120		
Surr	ogate	%REC	Limits					
o-Terphenyl		107	61-129					
Type: Lab ID:	BSD QC643619			Cleanup Method:	EPA 3630C			
Ana	lyte		Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24			2,500	1,831	73	59-120	14	52
Surr o-Terphenyl	rogate	%REC 92	Limits 61-129					



-\\Lims\gdrive\ezchrom\Projects\GC14B\Data\164b008, B



-\\lims\gdrive\ezchrom\Projects\GC27\Data\166a007.dat, Front Signal



-\\Lims\gdrive\ezchrom\Projects\GC14B\Data\164b010, B



-\\lims\gdrive\ezchrom\Projects\GC27\Data\166a008.dat, Front Signal



-\\Lims\gdrive\ezchrom\Projects\GC17A\Data\165a003, A



-\\Lims\gdrive\ezchrom\Projects\GC17A\Data\165a004, A



Purgeable Organics by GC/MS					
Lab #:	236951	Location:	VW Dealership, Oakland		
Client:	Arcadis	Prep:	EPA 5030B		
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B		
Field ID:	MW7	Batch#:	187602		
Lab ID:	236951-001	Sampled:	06/08/12		
Matrix:	Water	Received:	06/08/12		
Units:	ug/L	Analyzed:	06/14/12		
Diln Fac:	1.000	-			

Freen 12 ND 1.0 chloromethane ND 10 Chloromethane ND 0.5 Vinyl Chloride ND 0.5 Bromomethane ND 0.5 Ethyl tert-Butyl Ether (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acetone ND 1.0 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 Carbon Disulfide ND 0.5 Winyl Acetate ND 0.5 Chloroethane ND 0.5 Chloroform ND 0.5 Fremoubleorethane ND 0.5 Chloropopane ND 0.5 Chloroform ND 0.5 Fremochloromethane ND 0.5 L-Dichloropopane ND 0.5
tert-Butyl Alcohol (TBA) ND 10 Chloromethane ND 1.0 Isopropyl Ether (DIPE) ND 0.5 Winyl Chloride ND 0.5 Bromomethane ND 1.0 Ethyl tert-Butyl Ether (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acetone ND 0.5 Trichlorofluoromethane ND 0.5 Methylene Chloride ND 0.5 Carbon Disulfide ND 0.5 Viral Acetate ND 0.5 Viral Acetate ND 0.5 Chloropethane ND 0.5 Chloropopane ND 0.5 Chloropethane ND 0.5 Chloropopane ND 0.5 Chloropopane ND 0.5 Chloropopane ND 0.5 Chloropopane ND
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MTBEND0.5trans-1,2-DichloroetheneND0.5Vinyl AcetateND101.1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloropthaneND0.52,2-DichloropthaneND0.5ChloroformND0.5BromochloromethaneND0.51.1,1-TrichloroethaneND0.51.1,1-TrichloropthaneND0.5Carbon TetrachlorideND0.5BromodichloropthaneND0.51.2-Dichloropthane1.20.5BenzeneND0.5TrichloropthaneND0.5TrichloropthaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5DibromomethaneND0.5trans-1, 3-DichloropropaneND0.5trans-1, 3-DichloropropaneND0.5tetrachloroethane </td
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1.1-DichloroethaneND0.52-ButanoneND10cis-1,2-Dichloroethene0.50.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1-TrichloroethaneND0.51,1-DichloropropeneND0.51,1-DichloropropeneND0.52,2-DichloroethaneND0.51,1-DichloropropeneND0.51,2-Dichloroethane1.20.5BenzeneND0.5Trichloroethene4.60.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5TolueneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.52-HexanoneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND
2-ButanoneND10cis-1,2-Dichloropthene0.50.5c,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloropthaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5Benzene1.20.5TrichloropthaneND0.5J.2-DichloropropaneND0.5BenzeneND0.5TrichloropthaneND0.5BromodichloromethaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5J.3-DichloropropaneND0.5J.4-Methyl-2-PentanoneND0.5Trias-1, 3-DichloropropeneND0.5trans-1, 3-DichloropropeneND0.5trans-1, 3-DichloropropeneND0.52-HexanoneND0.52-HexanoneND0.51,1,2-TrichloropthaneND0.52-HexanoneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5Carbon tethaneND0.5ChloropthaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5ChlorophenzeneND0.5ChlorophenzeneND0.5 <t< td=""></t<>
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4-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.5
cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.5
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2-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.5
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1,2-Dibromoethane ND 0.5 Chlorobenzene ND 0.5
Chlorobenzene ND 0.5
1,1,1,2-Tetrachloroethane ND 0.5
Ethylbenzene ND 0.5
m, p-Xylenes ND 0.5
o-Xylène ND 0.5
Styrene ND 0.5
Bromoform ND 1.0
Isopropylbenzene ND 0.5
1,1,2,2-Tetrachloroethane ND 0.5
1,2,3-Trichloropropane ND 0.5
Propylbenzene ND 0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Purgeal	ble Organics	by GC/MS	
Lab #: 23695	51	Loca	tion:	VW Dealership, Oakland
Client: Arcad	lis	Prep	:	EPA 5030B
Project#: EM001	1048.0001-0001	Anal	ysis:	EPA 8260B
Field ID: MW7		Batc	<u>a</u> #:	187602
Lab ID: 23695	51-001	Samp.	ledi	06/08/12
Matrix: Water	-	Rece	ived:	06/08/12
Units: ug/L		Anal	yzed:	06/14/12
Diln Fac: 1.000)			
ano luto			DT	
Bromobongono		lesuit		
1 3 5-Trimethylbenzene			0.5	
2-Chlorotoluene			0.5	
4-Chlorotoluene	ND		0.5	
tert-Butvlbenzene	ND		0.5	
1.2.4-Trimethylbenzene	ND		0.5	
sec-Butylbenzene	ND		0.5	
para-Isopropyl Toluene	e ND		0.5	
1,3-Dichlorobenzene	ND		0.5	
1,4-Dichlorobenzene	ND		0.5	
n-Butylbenzene	ND		0.5	
1,2-Dichlorobenzene	ND		0.5	
1,2-Dibromo-3-Chloropr	ropane ND		2.0	
1,2,4-Trichlorobenzene	e ND		0.5	
Hexachlorobutadiene	ND		2.0	
Naphthalene	ND		2.0	
1,2,3-Trichlorobenzene	e ND		0.5	
Surrogata	%DEC	Timita		
Dibromofluoromethane	103	80-125		
1 2-Dichloroethane-d4	111	69-145		
Toluene-d8	96	80-120		
Bromofluorobenzene	97	80-120		

ND= Not Detected RL= Reporting Limit Page 2 of 2



Purgeable Organics by GC/MS				
Lab #:	236951	Location:	VW Dealership, Oakland	
Client:	Arcadıs	Prep:	EPA 5030B	
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B	
Field ID:	VW1	Batch#:	187602	
Lab ID:	236951-002	Sampled:	06/08/12	
Matrix:	Water	Received:	06/08/12	
Units:	ug/L	Analyzed:	06/14/12	
Diln Fac:	1.000	_		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methy1-2-Pentanone	ND	
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	
1,3-Dichloropropane	ND	0.5
Tetrachioroethene	ND	0.5
	ND	0.5
1,2-Dibromoethane	ND	0.5
Chloropenzene	ND	0.5
I, I, I, Z-Tetrachloroethane	ND	0.5
Etnylbenzene	ND	0.5
m, p-xyrenes		0.5
0-Xylene	ND	
Bromoform		
L O III O L O L III		
1 1 2 2 Tetrachlereethane		
1,2,2-IELIACHIOIOELHAHE		
r, 2, 3-111CH1010propane		
FrobArbeuseue	UND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2


		Purgea	ble Org	anics by G	C/MS	
Lab #:	236951			Location:	VW Dealersh	nip, Oakland
Client:	Arcadis			Prep:	EPA 5030B	
Project#:	EM001048.0001	L-0001		Analysis:	EPA 8260B	
Field ID:	VW1			Batch#:	187602	
Lab ID:	236951-002			Sampled:	06/08/12	
Matrix:	Water			Received:	06/08/12	
Units:	ug/L			Analyzed:	06/14/12	
Diln Fac:	1.000					
Analy	te		Result		RL	
Bromobenzene		ND			0.5	
1,3,5-Trimethylb	enzene	ND			0.5	
2-Chlorotoluene		ND			0.5	
4-Chlorotoluene		ND			0.5	
tert-Butylbenzen	e	ND			0.5	
1,2,4-Trimethylb	enzene	ND			0.5	
sec-Butylbenzene	_	ND			0.5	
para-Isopropyl T	oluene	ND			0.5	
1,3-Dichlorobenz	ene	ND			0.5	
1,4-Dichlorobenz	ene	ND			0.5	
n-Butylbenzene		ND			0.5	
1,2-Dichlorobenz	ene	ND			0.5	
1,2-Dibromo-3-Ch	loropropane	ND			2.0	
1,2,4-Trichlorob	enzene	ND			0.5	
Hexachlorobutadi	ene	ND			2.0	
Naphthalene		ND			2.0	
1,2,3-Trichlorob	enzene	ND			0.5	
-		<u> </u>				
Surrog	ate	%REC	Limits			
DIDromolluoromet.	nane		δU-125			
I,2-DICNIOROETNA	ne-a4	105	09-145			
Totuene-as		99	8U-120			
Bromolluorobenze	ne	90	80-120			



Purgeable Organics by GC/MS								
Lab #:	236951	Location:	VW Dealership, Oakland					
Client:	Arcadis	Prep:	EPA 5030B					
Project#:	ЕМ001048.0001-0001	Analysis:	EPA 8260B					
Field ID:	MW3	Batch#:	187602					
Lab ID:	236951-003	Sampled:	06/08/12					
Matrix:	Water	Received:	06/08/12					
Units:	ug/L	Analyzed:	06/14/12					
Diln Fac:	1.000	-						

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methy1-2-Pentanone	ND	
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	
1,3-Dichloropropane	ND	0.5
Tetrachioroethene	ND	0.5
	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachioroethane	ND	0.5
Etnylpenzene	ND	0.5
m, p-xyrenes	ND	
0-Xylene	ND	U.5
Bromoform		
Bromororil bongone		
1 1 2 2-Totradlaroothana		
1,2,2-Trighloropropana		
FrobArbellselle	ЛИ	0.5



		Purgea	ble Org	anics by G	C/MS
Lab #:	236951			Location:	VW Dealership, Oakland
Client:	Arcadis			Prep:	EPA 5030B
Project#:	EM001048.000	1-0001		Analysis:	EPA 8260B
Field ID:	MW 3			Batch#:	187602
Lab ID:	236951-003			Sampled:	06/08/12
Matrix:	Water			Received:	06/08/12
Units:	ug/L			Analyzed:	06/14/12
Diln Fac:	1.000				
Analy	rte		Result		RL
Bromobenzene		ND			0.5
1,3,5-Trimethylk	penzene	ND			0.5
2-Chlorotoluene		ND			0.5
4-Chlorotoluene		ND			0.5
tert-Butylbenzen	le	ND			0.5
1,2,4-Trimethylk	Denzene	ND			0.5
sec-Butylbenzene	2	ND			0.5
para-Isopropyl I	Coluene	ND			0.5
1,3-Dichlorobenz	zene	ND			0.5
1,4-Dichlorobenz	zene	ND			0.5
n-Butylbenzene		ND			0.5
1,2-Dichlorobenz	zene	ND			0.5
1,2-Dibromo-3-Ch	loropropane	ND			2.0
1,2,4-Trichlorob	penzene	ND			0.5
Hexachlorobutadi	ene	ND			2.0
Naphthalene		ND			2.0
1,2,3-Trichlorob	Denzene	ND			0.5
Surrog	jate	%REC	Limits		
Dipromotiuoromet	inane	96	80-125		
1,2-Dichloroetha	ane-d4	T08	69-145		
Toluene-d8		TOO	80-120		
Bromotluorobenze	ene	95	80-120		



Purgeable Organics by GC/MS								
Lab #:	236951	Location:	VW Dealership, Oakland					
Client:	Arcadis	Prep:	EPA 5030B					
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B					
Field ID:	VW2	Batch#:	187602					
Lab ID:	236951-004	Sampled:	06/08/12					
Matrix:	Water	Received:	06/08/12					
Units:	ug/L	Analyzed:	06/14/12					
Diln Fac:	50.00	-						

Freen 12 ND 50 Chloromethane ND 500 Chloromethane ND 50 Tsopropyl Ether (DIPE) ND 25 Winyl Chloride ND 25 Bromomethane ND 50 Ethyl tert-Butyl Ether (ETBE) ND 25 Methyl tert-Amyl Ether (TAME) ND 50 Methyl tert-Amyl Ether (TAME) ND 50 Adetone ND 50 Aretone ND 25 Methylene Chloride ND 25 Methylene Chloride ND 25 Methylene Chloroethene ND 25 MTBB ND 25 MTBB ND 25 MTBB ND 25 Vinyl Acetate ND 25 Vinyl Acetate ND 25 Vinyl Acetate ND 25 Chloroethane ND 25 Chloroform ND 25 L, 1-Dichloroprop
tert-Butyl Alcohol (TBA) ND 500 Chloromethane ND 25 Bromomethane ND 25 Bromomethane ND 25 Chloromethane ND 25 Acetone ND 250 I.1-Dichloromethane ND 25 Carbon Disulfide ND 25 trans-1, 2-Dichloromethane ND 25 Chloromethane ND 25 Carbon Disulfide ND 25 Carbon Disulfide ND 25 Carbon Disulfide ND 25 Chloromethane ND 25 Chloromethane ND 25 Carbon Disulfide ND 25 Chloromethane ND 25 Chloromethane ND 25 Chloromethane ND 25 Chloromethane ND 25 Chloromethane ND 25 Chloromethane ND 25 Carbon Tetrachloride ND 25 I.1-Dichloromethane ND 25 I.1-Dichloromethane ND 25 Carbon Tetrachloride ND 25 I.1-Dichloromethane ND 25 I.2-Dichloromethane ND 25 I
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Ethyl tert-Butyl Ether (ETBE) ND 25 Chloroethane ND 50 Methyl tert-Amyl Ether (TAME) ND 25 Trichlorofluoromethane ND 50 Acetone ND 50 Freon 113 ND 250 1,1-Dichloroethene ND 25 Methylene Chloride ND 25 MTBE ND 25 Trans-1,2-Dichloroethene ND 25 Vinyl Acetate ND 25 J.1-Dichloroethane ND 25 Vinyl Acetate ND 25 Vinyl Acetate ND 25 2-Butanone ND 25 2.2-Dichloroethane ND 25 Chloroform ND 25 1,1-Dichloropethane ND 25 1,1-Dichloropethane ND 25 2,2-Dichloropethane ND 25 1,1-Dichloropethane ND 25 1,1-Dichloropethane ND 25 1,2-Dichloropethane ND 25
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Methyl tert-Amyl Ether (TAME)ND25TrichlorofluoromethaneND50AcetoneND500Freon 113ND2501,1-DichloroetheneND25Methylene ChlorideND25Carbon DisulfideND25MTBEND25trans-1,2-DichloroetheneND25Vinyl AcetateND252-ButanoneND25ChloropropaneND25ChloroformND25BromochloromethaneND25ChloroformND25ChloroformND25BromochloromethaneND25ChloroformND25J. 1, 1-TrichloroethaneND25J. 2, 2-DichloroethaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloroethaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloropropaneND25J. 2, 2-DichloropropaneND25DibromomethaneND25DibromomethaneND25Oluene3,00025TrichloroethaneND25J. 1, 2-TrichloroethaneND25J. 1, 2-TrichloroethaneND25J. 1, 2-TrichloroethaneND25J. 1, 2-Trichloroeth
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AcetoneND500Freon 113ND2501,1-DichloroetheneND25Methylene ChlorideND25Carbon DisulfideND25MTBEND25Vinyl AcetateND252-ButanoneND25ChloroformND25ChloroformND25BromochloromethaneND25ChloroformND25BromochloromethaneND251,1-DichloroethaneND25ChloroformND25BromochloromethaneND251,1,1-TrichloroethaneND251,1,1-TrichloroethaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloropropaneND25<
Freen 113ND2501,1-DichloroetheneND25Methylene ChlorideND250Carbon DisulfideND25Trans-1,2-DichloroetheneND25trans-1,2-DichloroetheneND252-ButanoneND202-ButanoneND252-DichloroetheneND252-DichloroetheneND252-DichloroetheneND252-DichloroetheneND252,2-DichloropropaneND252,2-DichloropropaneND252,2-DichloropropaneND251,1-DichloropeneneND251,1-DichloropeneneND251,1-DichloropeneneND252,2-DichloropeneneND251,2-DichloropeneneND251,2-DichloropeneneND251,2-DichloropeneneND251,2-DichloropeneneND25BromodichloromethaneND25BromodichloromethaneND25DibromomethaneND25DibromomethaneND25Toluene3,00025Trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2
1.1-DichloroetheneND25Methylene ChlorideND250Carbon DisulfideND25MTBEND25Vinyl AcetateND5001.1-DichloroetheneND5001.1-DichloroetheneND500cis-1,2-DichloroetheneND500cis-1,2-DichloroetheneND500cis-1,2-DichloroetheneND252,2-DichloropropaneND25ChloroformND25BromochloromethaneND251,1-TrichloroethaneND251,1-DichloropropaneND251,1-DichloropropaneND251,2-DichloropropaneND25Carbon TetrachlorideND25Benzene1,80025TrichloropropaneND25DibromomethaneND25DibromomethaneND25DibromomethaneND25DibromorethaneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-DichloropropeneND25trans-1,3-Dichloro
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Vinyl AcetateND5001,1-DichloroethaneND252-ButanoneND500cis-1,2-DichloroetheneND252,2-DichloropropaneND25ChloroformND25BromochloromethaneND251,1-TrichloroethaneND251,1-DichloropropeneND252,2-DichloroethaneND25BromochloromethaneND251,1-DichloropropeneND251,2-DichloroethaneND251,2-DichloroethaneND251,2-DichloroethaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND251,2-DichloropropaneND25DibromomethaneND25DibromomethaneND25Toluene3,00025trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND251,1,2-TrichloroethaneND251,1,2-TrichloropropaneND251,3-DichloropropaneND251,3-DichloropropaneND251,3-DichloropropaneND251,3-DichloropropaneND251,3-DichloropropaneND251,3-DichloropropaneND25TetrarehloropropaneND25<
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2,2-DichloropropaneND25ChloroformND25BromochloromethaneND251,1-TrichloroethaneND251,1-DichloropropeneND25Carbon TetrachlorideND251,2-DichloroethaneND25Benzene1,80025TrichloropropaneND25J,2-DichloropropaneND25Benzene1,80025TrichloropropaneND25BromodichloromethaneND25BromodichloromethaneND25DibromomethaneND25Toluene3,00025Toluene3,000251,1,2-TrichloropropaneND251,1,2-TrichloropropaneND251,3-DichloropropaneND251,1,2-TrichloropropaneND251,1,3-DichloropropaneND251,1,2-TrichloropropaneND251,1,3-DichloropropaneND251,1,3-DichloropropaneND251,1,3-DichloropropaneND252-HexanoneND25TotrachloropropaneND2577257725772577257725772577257725772577257725<
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1,2-DichloropropaneND25BromodichloromethaneND25DibromomethaneND25d-Methyl-2-PentanoneND500cis-1,3-DichloropropeneND25Toluene3,00025trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND252-HexanoneND5001,3-DichloropropaneND25ToturoethaneND252-HexanoneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25TotrachloropropaneND25
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4-Metriy1-2-PentanoneND500cis-1,3-DichloropropeneND25Toluene3,00025trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND252-HexanoneND5001,3-DichloropropaneND25TotrachloropthoneND252-texanoneND252-texanoneND252-texanoneND252-texanoneND25
Toluene3,00025trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND252-HexanoneND5001,3-DichloropropaneND25TotrachloropthoneND25
trans-1,3-DichloropropeneND251,1,2-TrichloroethaneND252-HexanoneND5001,3-DichloropropaneND25TotrachloroothonoND25
1,1,2-TrichloroethaneND252-HexanoneND5001,3-DichloropropaneND25TetrachloroethoneND25
1,1,211101101000011a110202-HexanoneND5001,3-DichloropropaneND25TotrachloropthoneND25
1,3-Dichloropropane ND 25 Totrachloropthono ND 25
Totrachloroothono ND 25
Dibromochloromethane ND 25
1.2-Dibromoethane ND 25
Chlorobenzene ND 25
1.1.1.2-Tetrachloroethane ND 25
Ethylbenzene 1.200 25
m.p-Xylenes 3,700 25
o-Xylene 1,200 25
Styrene ND 25
Bromoform ND 50
Isopropylbenzene 44 25
1,1,2,2-Tetrachloroethane ND 25
1,2,3-Trichloropropane ND 25



		Purgea	ble Org	anics by G	C/MS		
Lab #:	236951			Location:		VW Dealership,	Oakland
Client:	Arcadis			Prep:		EPA 5030B	
Project#:	EM001048.000	1-0001		Analysis:		EPA 8260B	
Field ID:	VW2			Batch#:		187602	
Lab ID:	236951-004			Sampled:		06/08/12	
Matrix:	Water			Received:		06/08/12	
Units:	ug/L			Analyzed:		06/14/12	
Diln Fac:	50.00						
Analy	te	I	Result		RL		
Bromobenzene		ND			25		
1,3,5-Trimethylb	enzene		240		25		
2-Chlorotoluene		ND			25		
4-Chlorotoluene		ND			25		
tert-Butylbenzen	е	ND			25		
1,2,4-Trimethylb	enzene		960		25		
sec-Butylbenzene	_	ND			25		
para-Isopropyl T	oluene	ND			25		
1,3-Dichlorobenz	ene	ND			25		
1,4-Dichlorobenz	ene	ND			25		
n-Butylbenzene			70		25		
1,2-Dichlorobenz	ene	ND			25		
1,2-Dibromo-3-Ch	loropropane	ND			100		
1,2,4-Trichlorob	enzene	ND			25		
Hexachlorobutadi	ene	ND			100		
Naphthalene			480		100		
1,2,3-Trichlorob	enzene	ND			25		
_	_	<u> </u>					
Surrog	ate	%REC	Limits				
Dipromotiuoromet.	nane	104	80-125				
1,2-Dicnloroetha	ne-a4		69-145				
Torneue-d8		98	80-120				
Bromotluorobenze	ne	94	80-120				



Purgeable Organics by GC/MS								
Lab #:	236951	Location:	VW Dealership, Oakland					
Client:	Arcadis	Prep:	EPA 5030B					
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B					
Field ID:	MW1	Batch#:	187602					
Lab ID:	236951-005	Sampled:	06/08/12					
Matrix:	Water	Received:	06/08/12					
Units:	ug/L	Analyzed:	06/14/12					
Diln Fac:	1.000	-						

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
Carbon Disulfide	ND	0.5
MTBE 1 0 5 1 1 1	0.3 0	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichioropropane	ND	0.5
Chloroform	ND	0.5
	ND	0.5
1,1,1-Irichioroethane		U.5 0 E
Carbon Totrachlorido		0.5
1 2 Dichloroothana		0.5
Pongono		0.5
Trichloroothono		0.5
1 2 - Dichloropropage	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1.3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

J= Estimated value ND= Not Detected RL= Reporting Limit Page 1 of 2



	Purgea	ble Org	anics by G	C/MS	
Lab #: 236951			Location:	VW Dealership,	Oakland
Client: Arcadi	S		Prep:	EPA 5030B	
Project#: EM0010	48.0001-0001		Analysis:	EPA 8260B	
Field ID: MW1			Batch#:	187602	
Lab ID: 236951	-005		Sampled:	06/08/12	
Matrix: Water			Received:	06/08/12	
Units: ug/L			Analyzed:	06/14/12	
Diln Fac: 1.000					
The states				DI	
Analyte	NID	Result			
Propyidenzene	ND			0.5	
1 2 5 Trimethulbengene	ND			0.5	
2-Chlorotoluono	ND			0.5	
4-Chlorotoluene	ND			0.5	
tert-Butylbenzene	ND			0.5	
1.2.4-Trimethylbenzene	ND			0.5	
sec-Butylbenzene	ND			0.5	
para-Isopropyl Toluene	ND			0.5	
1,3-Dichlorobenzene	ND			0.5	
1,4-Dichlorobenzene	ND			0.5	
n-Butylbenzene	ND			0.5	
1,2-Dichlorobenzene	ND			0.5	
1,2-Dibromo-3-Chloropro	pane ND			2.0	
1,2,4-Trichlorobenzene	ND			0.5	
Hexachlorobutadiene	ND			2.0	
Naphthalene	ND			2.0	
1,2,3-Trichlorobenzene	ND			0.5	
Gummogoto	0.DEC	Timite			
Dibromofluoromothana	0.0	<u>80-125</u>			
1 2-Dichloroethano-d4	90 105	69_145			
Toluene-d8	98	80-120			
Bromofluorobenzene	97	80-120			



Purgeable Organics by GC/MS								
Lab #:	236951	Location:	VW Dealership, Oakland					
Client:	Arcadis	Prep:	EPA 5030B					
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B					
Field ID:	VW3	Batch#:	187602					
Lab ID:	236951-006	Sampled:	06/08/12					
Matrix:	Water	Received:	06/08/12					
Units:	ug/L	Analyzed:	06/14/12					
Diln Fac:	40.00	-						

Analyte	R	esult	RL	
Freon 12	ND		40	
tert-Butyl Alcohol (TBA)	ND		400	
Chloromethane	ND		40	
Isopropyl Ether (DIPE)	ND		20	
Vinyl Chloride	ND		20	
Bromomethane	ND		40	
Etnyl tert-Butyl Etner (ETBE)	ND		20	
Mothul text Amul Ether (TAME)			40	
Trichlorofluoromothono			20	
			40	
Freon 113	ND		200	
1 1-Dichloroethene	ND		200	
Methylene Chloride	ND		200	
Carbon Disulfide	ND		20	
MTBE	ND		20	
trans-1,2-Dichloroethene	ND		20	
Vinyl Acetate	ND		400	
1,1-Dichloroethane	ND		20	
2-Butanone	ND		400	
cis-1,2-Dichloroethene	ND		20	
2,2-Dichloropropane	ND		20	
Chloroform	ND		20	
Bromochloromethane	ND		20	
1,1,1-Trichloroethane	ND		20	
1,1-Dichloropropene	ND		20	
Carbon Tetrachloride	ND		20	
1,2-Dichloroethane	ND		20	
Benzene		54	20	
Trichloroethene	ND		20	
1,2-Dichloropropane	ND		20	
Bromodichloromethane	ND		20	
Dibromomethane	ND		20	
4-Methyl-2-Pentanone			400	
			20	
trang_1 3_Dighloropropono			20	
1 1 2-Trichloroethane			20	
2-Hexanone	ND		400	
1.3-Dichloropropane	ND		20	
Tetrachloroethene	ND		20	
Dibromochloromethane	ND		20	
1,2-Dibromoethane	ND		20	
Chlorobenzene	ND		20	
1,1,1,2-Tetrachloroethane	ND		20	
Ethylbenzene		84	20	
m,p-Xylenes		540	20	
o-Xylene		100	20	
Styrene	ND		20	
Bromoform	ND		40	
Isopropylbenzene		100	20	
1,1,2,2-Tetrachloroethane	ND		20	
1,2,3-Trichloropropane	ND		20	
Propylbenzene		340	20	



Purgeable Organics by GC/MS						
Lab #:	236951			Location:		VW Dealership, Oakland
Client:	Arcadis			Prep:		EPA 5030B
Project#:	EM001048.000	1-0001		Analysis:		EPA 8260B
Field ID:	VW3			Batch#:		187602
Lab ID	236951-006			Sampled		06/08/12
Matrix:	Water			Received:		06/08/12
Units: Dila Faci				Analyzed:		06/14/12
DIIII Fac.	40.00					
Analy	vte		Result		RL	
Bromobenzene		ND			20	
1,3,5-Trimethylk	oenzene		650		20	
2-Chlorotoluene		ND			20	
4-Chlorotoluene		ND			20	
tert-Butylbenzer	ne	ND			20	
1,2,4-Trimethylk	oenzene	:	2,000		20	
sec-Butylbenzene	2		37		20	
para-Isopropyl 7	Foluene		22		20	
1,3-Dichlorobenz	zene	ND			20	
1,4-Dichlorobenz	zene	ND			20	
n-Butylbenzene			83		20	
1,2-Dichlorobenz	zene	ND			20	
1,2-Dibromo-3-Ch	nloropropane	ND			80	
1,2,4-Irichloron	benzene	ND			20	
Narbthalana	tene	ND	240		80	
1 2 2 Trichlorok	0005000		240		20	
1,2,3-11101101	Jenzene	ND			20	
Surrog	gate	%REC	Limits			
Dibromofluoromet	thane	104	80-125			
1,2-Dichloroetha	ane-d4	118	69-145			
Toluene-d8		98	80-120			
Bromofluorobenze	ene	92	80-120			



Purgeable Organics by GC/MS				
Lab #:	236951	Location:	VW Dealership, Oakland	
Client:	Arcadis	Prep:	EPA 5030B	
Project#:	ЕМ001048.0001-0001	Analysis:	EPA 8260B	
Field ID:	DUP	Batch#:	187602	
Lab ID:	236951-008	Sampled:	06/08/12	
Matrix:	Water	Received:	06/08/12	
Units:	ug/L	Analyzed:	06/14/12	
Diln Fac:	1.000	-		

Analyte	Result	RL
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methy1-2-Pentanone	ND	
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	
1,3-Dichloropropane	ND	0.5
Tetrachioroethene	ND	0.5
	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachioroethane	ND	0.5
Etnylpenzene	ND	0.5
m, p-xyrenes	ND	
0-Xylene	ND	U.5
Bromoform		
Bromororil bongone		
1 1 2 2-Totradlaroothana		
1,2,2-Trighloropropana		
FrobArbellselle	ЛИ	0.5



	Purgeab	le Organ	nics by GC	C/MS
Lab #: 236951]	Location:	VW Dealership, Oakland
Client: Arcadis]	Prep:	EPA 5030B
Project#: EM001048.000	1-0001	2	Analysis:	EPA 8260B
Field ID: DUP]	Batch#:	187602
Lab ID: 236951-008		(Sampled:	06/08/12
Matrix: Water]	Received:	06/08/12
Units: ug/L		2	Analyzed:	06/14/12
Diln Fac: 1.000				
Analyte	Re	esult		RL
Bromobenzene	ND			0.5
1,3,5-Trimethylbenzene	ND			0.5
2-Chlorotoluene	ND			0.5
4-Chlorotoluene	ND			0.5
tert-Butylbenzene	ND			0.5
1,2,4-Trimethylbenzene	ND			0.5
sec-Butylbenzene	ND			0.5
para-Isopropyl Toluene	ND			0.5
1,3-Dichlorobenzene	ND			0.5
1,4-Dichlorobenzene	ND			0.5
n-Butylbenzene	ND			0.5
1,2-Dichlorobenzene	ND			0.5
1,2-Dibromo-3-Chloropropane	ND			2.0
1,2,4-Trichlorobenzene	ND			0.5
Hexachlorobutadiene	ND			2.0
Naphthalene	ND			2.0
1,2,3-Trichlorobenzene	ND			0.5
- ·				
Surrogate	%REC I			
Dipromotiuoromethane	107 8	5U-125		
1,2-Dichloroethane-d4	100 6	DY-145		
Toruene-as	TOO 8	3U-12U		



Purgeable Organics by GC/MS					
Lab #: Client:	236951 Arcadis	Location: Prep:	VW Dealership, Oakland EPA 5030B		
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B		
Matrix:	Water	Batch#:	187602		
Diln Fac:	ug/L 1.000	Analyzed:	06/14/12		

Type: BS			Lab ID:	QC64	44150		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		180.8 b	145 *	47-136	
Isopropyl Ether (DIPE)		25.00		22.48	90	54-136	
Ethyl tert-Butyl Ether (ETBE)		25.00		24.44	98	57-133	
Methyl tert-Amyl Ether (TAME)		25.00		24.35	97	65-120	
1,1-Dichloroethene		25.00		22.95	92	66-131	
Benzene		25.00		24.13	97	80-121	
Trichloroethene		25.00		24.67	99	79-120	
Toluene		25.00		24.80	99	80-120	
Chlorobenzene		25.00		23.76	95	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	103	80-125					
1,2-Dichloroethane-d4	109	69-145					
Toluene-d8	96	80-120					
Bromofluorobenzene	98	80-120					

Type: BSD			Lab ID:	QC644	1151			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		174.9 b	140 *	47-136	3	28
Isopropyl Ether (DIPE)		25.00		20.81	83	54-136	8	20
Ethyl tert-Butyl Ether (ETBE)		25.00		22.24	89	57-133	9	20
Methyl tert-Amyl Ether (TAME)		25.00		24.16	97	65-120	1	20
1,1-Dichloroethene		25.00		20.94	84	66-131	9	20
Benzene		25.00		23.28	93	80-121	4	20
Trichloroethene		25.00		23.28	93	79-120	6	20
Toluene		25.00		22.45	90	80-120	10	20
Chlorobenzene		25.00		21.76	87	80-120	9	20
Surrogate	%REC	Limits						
Dibromofluoromethane	104	80-125						
1,2-Dichloroethane-d4	116	69-145						
Toluene-d8	96	80-120						
Bromofluorobenzene	93	80-120						

*= Value outside of QC limits; see narrative
b= See narrative RPD= Relative Percent Difference Page 1 of 1



Purgeable Organics by GC/MS					
Lab #: Client:	236951 Arcadis	Location: Bren:	VW Dealership, Oakland		
Project#:	EM001048.0001-0001	Analysis:	EPA 8260B		
Type:	BLANK	Diln Fac:	1.000		
Lab ID: Matrix:	QC644152 Water	Batch#: Analyzed:	187602		
Units:	ug/L	Anary 200.	00/11/12		

Preon 12 ND 1.0 Chloromethane ND 10 Chloromethane ND 1.0 Icopropyl Ether (DIPE) ND 0.5 Vinyl Chloride ND 0.5 Endmonethane ND 0.5 Endmonethane ND 0.5 Mithorethane ND 0.5 Chlorofluoromethane ND 0.5 Trichlorofluoromethane ND 10 Freen 113 ND 5.0 Acctone ND 0.5 Methylene Chloride ND 0.5 Mars-1, 2-Dichloroethene ND 0.5 Mars-1, 2-Dichloroethene ND 0.5 Yinyl Acetate ND 10 1, -Dichloropenane ND 0.5 Chloroporpane ND 0.5 <t< th=""><th>Analyte</th><th>Result</th><th>RL</th></t<>	Analyte	Result	RL
tert-Butyl Alcohol (TEA) ND 10 Chloromethane ND 1.0 Isopropyl Ether (DIFE) ND 0.5 Bromomethane ND 1.0 Encommethane ND 0.5 Encommethane ND 0.5 Child Charle ND 0.5 Child Charle ND 10 Trichlorof Luoromethane ND 10 Acetone ND 5.0 1,1-Dichlorothene ND 5.0 1,1-Dichlorothene ND 0.5 MTBE ND 0.5 Carbon Disulfide ND 0.5 Vinyl Acetate ND 0.5 Carbon Creathane ND 0.5 Carbon Tertachlorothane ND 0.5 1,1-Trichlorocthane ND 0.5 1,1-Trichloropthane ND 0.5 1,2-Dichloropthane ND 0.5 1,1-Trichloropthane ND 0.5 1,1-Dichloroptopane ND 0	Freon 12	ND	1.0
Chloromethane ND 1.0 Lisopropyl Ether (DIFE) ND 0.5 Vinyl Chloride ND 0.5 Bromomethane ND 0.5 Erbyl tert-Butyl Ether (ETBE) ND 0.5 Methyl tert-Autyl Ether (TAME) ND 0.5 Methyl Lert-Autyl Ether (TAME) ND 0.6 Arcon 1.0 1.0 Arcon 0.5 1.0 Arcon 0.5 1.0 Methylene Chloride ND 0.5 Carbon Disulfide ND 0.5 Vinyl Acetate ND 0.5 Chloroforompane ND 0.5 Chloroforompane ND 0.5 Carbon Discontentane ND 0.5 Carbon Teixachloride ND 0.5 Carbon Combane ND 0.5	tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE) ND 0.5 Bromomethane ND 1.0 Ethyl tert-Butyl Sther (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Butyl Sther (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acetone ND 0.5 Frichlorofluoromethane ND 0.5 Mithylene ND 0.5 Methylene ND 0.5 Methylene ND 0.5 Methylene ND 0.5 Mithylene ND 0.5 Vinyl Acetate ND 10 1.1-Dichloroethane ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Chloropropane ND 0.5 Chloroform ND 0.5 Chloropropane ND 0.5 Chloropropane ND 0.5 1.2-Dichloropropane <	Chloromethane	ND	1.0
Vinjî Chloride ND 0.5 Bromomethane ND 1.0 Ethyl tert-Butyl Ether (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acetone ND 1.0 Acetone ND 5.0 In Juhn Chorothene ND 0.5 MTBB ND 0.5 Vinyl Acetate ND 0.5 Vinyl Acetate ND 0.5 Carbon Didoroethane ND 0.5 Vinyl Acetate ND 0.5 Carbon Didoroethane ND 0.5 Carbon Didoroethane ND 0.5 Carbon Toroethane ND 0.5 Chloroform ND 0.5 Scancholloroethane ND 0.5 Li-1-Trichloroethane ND 0.5 Li-2-Dichloroethane ND 0.5 Li-2-Dichloroethane ND	Isopropyl Ether (DIPE)	ND	0.5
Broinmethane ND 1.0 Ethyl tert-Butyl Ether (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acetone ND 10 Preon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloroethene ND 0.5 Marsen-1, 2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Schooloromethane ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Schooloromethane ND 0.5 I,1-Dichloropethane ND 0.5 I,1-Dichloropethane ND 0.5 Schooloromethane ND 0.5 I,1-Dichloropethane ND 0.5 I,2-Dichloropethane ND <td>Vinyl Chloride</td> <td>ND</td> <td>0.5</td>	Vinyl Chloride	ND	0.5
Ethyl tert-Butyl Ether (ETBE) ND 0.5 Chloroethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 1.0 Acctone ND 1.0 Preon 113 ND 0.5 Methylene Chloride ND 0.5 Carbon Disulfide ND 0.5 MTBE ND 0.5 Trans-1,2-Dichloroethene ND 0.5 Vinyl Acctate ND 0.5 2.a-butanone ND 0.5 1.1-Tribloroethane ND 0.5 1.1-Tribloroethane ND 0.5 1.1-Dichloropropane ND 0.5 1.1-Dichloropropane ND 0.5 1.1-Dichloropropane ND <td< td=""><td>Bromomethane</td><td>ND</td><td>1.0</td></td<>	Bromomethane	ND	1.0
Chlörethane ND 1.0 Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 10 Acetone ND 10 Preon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 Carbon Disulfide ND 0.5 Trans-1,2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 2-Butanone ND 0.5 1,1-Dichloroethane ND 0.5 2-Joichloropropane ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Carbon Tetrachloride ND 0.5 Carbon Tetrachloropthane ND 0.5 Carbon Tetrachloride ND 0.5 Carbon Tetrachloride ND 0.5 1,1,1-Trichloroethane ND 0.5 1,2-Dichloropopane ND 0.5 Trichloroethane <t< td=""><td>Ethyl tert-Butyl Ether (ETBE)</td><td>ND</td><td>0.5</td></t<>	Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME) ND 0.5 Trichlorofluoromethane ND 10 Acetone ND 5.0 I.j-Dichloroethene ND 5.0 I.j-Dichloroethene ND 5.0 Carbon Disulfide ND 0.5 Carbon Disulfide ND 0.5 Trans-1,2-Dichloroethene ND 0.5 Vinyl Acctate ND 0.5 2-Butanone ND 0.5 Chloroperbane ND 0.5 Chloroporgane ND 0.5 Chloroporgane ND 0.5 Chronofloromethane ND 0.5 Carbon Tarterphyne ND 0.5 I., 2-Dichloropethane ND 0.5 I., 2-Dichlo	Chloroethane	ND	1.0
Trichlorofluoromethane ND 1.0 Acetone ND 10 Freon 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBE ND 0.5 MTBE ND 0.5 Vinyl Acetate ND 0.5 2-Butanone ND 0.5 2-Jchichoroethene ND 0.5 2-Jchichoroethane ND 0.5 1,1-Trichoroethane ND 0.5 1,2-Jchichoroethane ND 0.5 1,2-Jchichoroethane ND 0.5 1,2-Jchichoroethane ND 0.5 1,2-Jchichoroethane ND 0.5 1,2-Jchi	Methyl tert-Amyl Ether (TAME)	ND	0.5
Acctone ND 10 Freen 113 ND 5.0 1,1-Dichloroethene ND 0.5 Methylenc Chloride ND 0.5 Carbon Disulfide ND 0.5 WTBE ND 0.5 trans-1,2-Dichloroethene ND 0.5 Yinyl Acctate ND 0.5 2-Butanone ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Chloroform ND 0.5 Frence/Loropropane ND 0.5 Carbon Tetrachloride ND 0.5 L,2-Dichloropenpane ND 0.5 Prichoropopane ND 0.5 Carbon Tetrachloride ND 0.5 Pibromomethane ND 0.5 Pibromomethane ND 0.5 Pibromomethane ND 0.5 Carbon Tetrachloropropene ND 0.5	Trichlorofluoromethane	ND	1.0
Freen 113 ND 5.0 1.1-Dichloroethene ND 0.5 Methylene Chloride ND 0.5 MTBB ND 0.5 Trans-1, 2-Dichloroethene ND 0.5 Vinyl Acetate ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2-Dichloroethene ND 0.5 2-Dichloroethene ND 0.5 2-Dichloroethene ND 0.5 2-Dichloroethene ND 0.5 Bromochloromethane ND 0.5 1.1-Dichloroethene ND 0.5 I.1-Dichloroethene ND 0.5 I.1-Dichloroethene ND 0.5 I.1-Dichloroethene ND 0.5 Carbon Tetrachloride ND 0.5 Benzene ND 0.5 Bromodichoromethane ND 0.5 Dibromomethane ND 0.5 I.2-Dichloropropene ND 0.5 I.2-Dichloropropene ND 0.5	Acetone	ND	10
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Nethylene ChlorideND5.0Carbon DisulfideND0.5MTBBND0.5Vinyl AcetateND101.1-DichoroethaneND102-ButanoneND10cis-1, 2-DichloroethaneND0.52-ButanoneND0.5ChloroformND0.5ChloroformND0.5BromochloromethaneND0.51.1-DichloroperpeneND0.51.1-TrichloroethaneND0.51.1-DichloroperpeneND0.52.2-DichloroperpeneND0.51.1-DichloroperpeneND0.52.2-DichloroperpeneND0.51.1-DichloroperpeneND0.52.2-DichloroperpeneND0.5BenzeneND0.5PrichloroperpaneND0.5PibromomethaneND0.51.2-DichloropropaneND0.5DibromomethaneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND0.5IntrolocopeneND<	1,1-Dichloroethene	ND	0.5
Carbon DisulfideND0.5MTBEND0.5trans-1, 2-DichloroetheneND01,1-DichloroethaneND0.52-ButanoneND0.52-JutanoneND0.52,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1,1-TrichloroethaneND0.51,1,1-TrichloroethaneND0.51,2-DichloropropeneND0.51,2-DichloropropeneND0.51,2-DichloropropeneND0.51,2-DichloropropeneND0.51,2-DichloropropeneND0.5TrichloroethaneND0.5BromodichloromethaneND0.5StrichloropropeneND0.5TrichloroptopeneND0.5IdentificationND0.5TrichloroptopeneND0.5Trans-1, 3-DichloropropeneND0.5trans-1, 3-Dichloropropane <t< td=""><td>Methylene Chloride</td><td>ND</td><td>5.0</td></t<>	Methylene Chloride	ND	5.0
MTBF ND 0.5 Vinyl Acetate ND 10 1,1-Dichloroethane ND 0.5 2-Butanone ND 0.5 2-Butanone ND 0.5 2-Dichloroethane ND 0.5 2-Dichloroethane ND 0.5 Chloroform ND 0.5 Bromochloromethane ND 0.5 1,1-Trichloroethane ND 0.5 1,1-Dichloropropene ND 0.5 1,1-Dichloropropene ND 0.5 1,1-Dichloropropene ND 0.5 1,2-Dichloropropene ND 0.5 Trichloroethane ND 0.5 Strinchloroptopane ND 0.5 Dibromodethane ND 0.5 Trichloroptopane ND 0.5 Identified ND 0.5 Identified ND 0.5 Trichloroptopene ND 0.5 Identified ND 0.5	Carbon Disulfide	ND	0.5
trans-1,2-DichloroetheneND0.5Vinyl AcetateND01.1-DichloroethaneND0.52-ButanoneND0.52.2-DichloroetheneND0.52.2-DichloropropaneND0.52.2-DichloropropaneND0.5BromochloromethaneND0.51.1.1-TrichloroethaneND0.51.1.1-TrichloroethaneND0.51.2-DichloropropeneND0.51.2-DichloropropeneND0.51.2-DichloroethaneND0.51.2-DichloroethaneND0.51.2-DichloropropaneND0.51.2-DichloropropaneND0.51.2-DichloropropaneND0.51.2-DichloropropaneND0.5StrichloropropaneND0.5IndextorieND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND0.5IndextonND </td <td>MTBE</td> <td>ND</td> <td>0.5</td>	MTBE	ND	0.5
Vinyl AcetateND101.1-DichloroethaneND0.52-ButanoneND0.5cis-1,2-DichloroptopaneND0.5ChloroformND0.5ChloroformND0.5BromochloromethaneND0.51.1-DichloroptopaneND0.51.1-DichloroptopaneND0.5Carbon TetrachlorideND0.5Carbon TetrachlorideND0.5BenzeneND0.5TrichloroptopaneND0.5J.2-DichloroptopaneND0.5BromodichloromethaneND0.5J.2-DichloroptopaneND0.5BromodichloromethaneND0.5J.2-DichloroptopaneND0.5BromodichloromethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5JobsonomethaneND0.5<	trans-1,2-Dichloroethene	ND	0.5
1.1-DichloroethaneND0.52-ButanoneND10cis-1,2-DichloroethaneND0.52,2-DichlorogropaneND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1,1-TrichloroethaneND0.52,2-DichloropopeneND0.52,2-DichloroethaneND0.51,1,1-TrichloroethaneND0.52,2-DichloroethaneND0.51,2-DichloroethaneND0.51,2-DichloroethaneND0.51,2-DichloroethaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,1,2-TrichloropopaneND0.51,1,2-TrichloropopaneND0.51,1,2-TrichloropopaneND0.51,1,2-TrichloropopaneND0.51,1,2-TrichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-DichloropopaneND0.51,2-TrichloroethaneND0.51,2-TrichloroethaneND0.51,2-DichloromethaneND0.51	Vinyl Acetate	ND	10
2-BittanoneND10cis-1,2-DichloropetheneND0.5(2,2-DichloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1-JithloropethaneND0.5(1,1-DichloropropeneND0.5Carbon TetrachlorideND0.51,2-DichloropethaneND0.5BenzeneND0.5TrichloropetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5TrichloroptopaneND0.5BromodichloropropaneND0.5BromodichloropropaneND0.5Jack (1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1.1-Dichloroethane	ND	0.5
cis-1.2-DichloroptopaneND0.52,2-DichloroptopaneND0.5ChloroformND0.5BromochloromethaneND0.51,1.1-TrichloroethaneND0.51,1.1-TrichloroptopeneND0.52,2-DichloroethaneND0.51,2-DichloroethaneND0.51,2-DichloroptopaneND0.5TrichloroptopaneND0.5TrichloroptopaneND0.51,2-DichloroptopaneND0.5JibromomethaneND0.5DibromomethaneND0.5IrichloroptopaneND0.5Irichloropto	2-Butanone	ND	10
2,2-Di-hloropropaneND0.5ChloroformND0.5BromochloromethaneND0.51,1-TrichloroethaneND0.5(1,1-TrichloroethaneND0.5Carbon TetrachlorideND0.51,2-DichloropropaneND0.51,2-DichloropropaneND0.51,2-DichloropropaneND0.5TrichloroethaneND0.5BromodichloromethaneND0.5BromodichloromethaneND0.5John D0.50.5Hethyl-2-PentanoneND0.5trans-1,3-DichloropropaneND0.5trans-1,3-DichloropropaneND0.5trans-1,3-DichloropropaneND0.5trans-1,3-DichloropropaneND0.5trans-1,3-DichloropropaneND0.5trans-1,3-DichloropropaneND0.52-HexanoneND0.51,3-DichloropropaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5ChlorobezeneND0.5thylbenzeneND0.5thylbenzeneND0.5thylbenzeneND0.5typeneND0.5typeneND0.5typeneND0.5typeneND0.5typeneND0.5typeneND0.5typeneND0.5typeneND0.5 <td< td=""><td>cis-1.2-Dichloroethene</td><td>ND</td><td>0.5</td></td<>	cis-1.2-Dichloroethene	ND	0.5
ChloroformND0.5BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.51,2-DichloroethaneND0.5BenzeneND0.5TrichloroethaneND0.5J,2-DichloroethaneND0.5J,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5DibromomethaneND0.5TriachloropropeneND0.5OlueneND0.5TolueneND0.51,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.51,3-DichloropropeneND0.51,3-DichloropropeneND0.51,3-DichloropropeneND0.51,3-DichloropropeneND0.51,3-DichloropropeneND0.51,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.55tyreneND0.55tyreneND0.55tyreneND0.55tyreneND0.55tyreneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-Tetr	2.2-Dichloropropane	ND	0.5
BromochloromethaneND0.51,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.5Carbon TetrachlorideND0.5Carbon TetrachlorideND0.5BenzeneND0.5TrichloroethaneND0.5TrichloropropaneND0.5BromodichloromethaneND0.5BromodichloromethaneND0.5J.2-DichloropropaneND0.5BromodichloromethaneND0.5Job commethaneND0.5Job commethaneND0.5TolueneND0.5TolueneND0.51,1,2-TrichloropropeneND0.52-HexanoneND0.52-HexanoneND0.5DibromochlaneND0.5DibromochloropropaneND0.5DibromochloropropaneND0.5DibromochloroethaneND0.5DibromochlaneND0.5DibromochlaneND0.5DibromochlaneND0.5ChloroberzeneND0.5ChloroberzeneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5StyreneND0.5Styrene <t< td=""><td>Chloroform</td><td>ND</td><td>0.5</td></t<>	Chloroform	ND	0.5
1,1,1-TrichloroethaneND0.51,1-DichloropropeneND0.51,1-DichloropropeneND0.5(Carbon TetrachlorideND0.5BenzeneND0.5TrichloroethaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5Other and the second secon	Bromochloromethane	ND	0 5
1,1-DichloropropeneND0.5Carbon TetrachlorideND0.5Carbon TetrachlorideND0.5BenzeneND0.5BronodichloromethaneND0.5BromodichloromethaneND0.5J.2-DichloropropaneND0.5BromodichloromethaneND0.54-Methyl-2-PentanoneND0.5trans-1, 3-DichloropropeneND0.51,1,2-TrichloropropeneND0.51,1,2-TrichloropropeneND0.51,1,2-TrichloropropeneND0.51,3-DichloropropeneND0.51,1,2-TrichloropropeneND0.51,1,2-TrichloropropeneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,1,2-TetrachloroethaneND0.51,1,2-TetrachloroethaneND0.51,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5550.50.5550.50.5550.50.56ND0.570.50.570.50.570.50.580.50.590.50.590.50.590.50.590.50.590.50.590.50.590.50.59 </td <td>1.1.1-Trichloroethane</td> <td>ND</td> <td>0.5</td>	1.1.1-Trichloroethane	ND	0.5
All DefinitionND0.5(arbon TetrachlorideND0.51,2-DichloroethaneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.51,3-DichloropropeneND0.5TrischloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.5DibromochlaroethaneND0.51,3-DichloropropaneND0.52-HexanoneND0.52-HexanoneND0.5DibromochlaroethaneND0.5DibromochlaroethaneND0.5ChlorobenzeneND0.51,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5m,p-XylenesND0.5StyreneND0.5BromoformND0.5BromoformND0.5BromoformND0.51,1,2,2-TetrachloroethaneND0.51,2,2-TetrachloroethaneND0.51,2,2,3-TrichloropropaneND0.51,2,2,3-TrichloropropaneND0.51,2,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-Trich	1.1-Dichloropropene	ND	0.5
1,2-DichloroethaneND0.5BenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5JobromomethaneND0.54-Methyl-2-PentanoneND0.54-Methyl-2-PentanoneND0.5trans-1, 3-DichloropropeneND0.5trans-1, 3-DichloropropeneND0.52-HexanoneND0.52-HexanoneND0.52-HexanoneND0.5DibromochlaneND0.5DibromochloromethaneND0.52-HexanoneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.51, 2-DibromoethaneND0.51, 2-DibromoethaneND0.51, 2-DibromoethaneND0.51, 1, 1, 1, 2-TetrachloroethaneND0.51, 1, 2-TetrachloroethaneND0.555555555555556-XyleneND0.571.00.51, 1, 2, 2-TetrachloroethaneND0.51, 2, 2, 3-TrichloropropaneND0.51, 2, 3-	Carbon Tetrachloride	ND	0.5
PenzeneND0.5TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.5OutomomethaneND0.5OlueneND0.5TrichloropropeneND0.51,1,2-TrichloropropeneND0.51,3-DichloropropeneND0.52-HexanoneND0.51,3-DichloropropaneND0.5TetrachloroethaneND0.51,2-DibromoethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.51,1,2-TetrachloroethaneND0.5DibromochloromethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.55typeneND0.	1.2-Dichloroethane	ND	0.5
TrichloroetheneND0.51,2-DichloropropaneND0.5BromodichloromethaneND0.5bibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND0.51,3-DichloropropaneND0.5TetrachloroethaneND0.51,2-DibromoethaneND0.51,2-DibromoethaneND0.51,2-DibromoethaneND0.51,1,1,2-TetrachloroethaneND0.5ChlorobenzeneND0.5EthylbenzeneND0.5StyreneND0.5StyreneND0.5StyreneND0.5BromoformND0.5StyreneND0.5BromoformND0.5StyreneND0.5BromoformND0.5BromoformND0.5J,2,3-TrichloropropaneND0.5J,2,3-TrichloropropaneND0.5J,2,3-TrichloropropaneND0.5J,2,3-TrichloropropaneND0.5J,2,3-TrichloropropaneND0.5JrowylberzeneND0.5JrowylberzeneND0.5JrowylberzeneND0.5JrowylberzeneND0.5Jrowylberze	Benzene	ND	0.5
1.2-DichloropropaneND0.5BromodichloromethaneND0.5DibromomethaneND0.54-Methyl-2-PentanoneND10cis=1,3-DichloropropeneND0.5TolueneND0.5trans=1,3-DichloropropeneND0.51,1,2-TrichloroptopeneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroptopeneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.51,1,2-TetrachloroptopeneND0.51,1,2-TetrachloroptopeneND0.51,1,2-TetrachloroptopeneND0.51,1,2-TetrachloroptopeneND0.55StyreneND0.55StyreneND0.55StyreneND0.58romoformND0.51,2,2-TetrachloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-TrichloroptopaneND0.51,2,3-Trichloroptopane	Trichloroethene	ND	0.5
In a DromotichloromethaneND0.5DibromomethaneND0.5ParticipationND0.5A-Methyl-2-PentanoneND0.5TolueneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.52-HexanoneND0.52-HexanoneND0.51,1,2-TrichloropropaneND0.52-HexanoneND0.5DibromochloromethaneND0.51,2-DibromochloromethaneND0.51,1,2-TetrachloroethaneND0.51,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,2-TetrachloroethaneND0.51,1,2-TetrachloroethaneND0.55StyreneND0.55StyreneND0.55StyreneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-Trichloropr	1 2-Dichloropropane	ND	0.5
DibromomethaneND0.54-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroethaneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,2-DibromoethaneND0.51,2-DibromoethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5thylbenzeneND0.5or XyleneND0.5StyreneND0.5BromoformND0.5styreneND0.5JordenzeneND0.51,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,11,11,11,2,3-TrichloropropaneND<	Bromodichloromethane	ND	0.5
A-Methyl-2-PentanoneND10cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroethaneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,2-DibromoethaneND0.51,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5styreneND0.5StyreneND0.5StyreneND0.5BromoformND0.5JordenzeneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,1111,1111,2111,2 <td< td=""><td>Dibromomethane</td><td>ND</td><td>0.5</td></td<>	Dibromomethane	ND	0.5
International cis-1,3-DichloropropeneND0.5TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND0.52-HexanoneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.55StyreneND0.5StyreneND0.5BromoformND0.5StyreneND0.5BromoformND0.51,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.5PropylbenzeneND0.5 <td>4-Methyl-2-Pentanone</td> <td>ND</td> <td>10</td>	4-Methyl-2-Pentanone	ND	10
TolueneND0.5trans-1,3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.51,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5StyreneND0.5StyreneND0.5StyreneND0.5IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.5StyreneND0.5BromoformND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5	cis-1 3-Dichloropropene	ND	
Itrans-1, 3-DichloropropeneND0.51,1,2-TrichloroethaneND0.52-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5stypeneND	Toluene	ND	0.5
bit is broken broken brokenis broken broken1,1,2-TrichloroethaneND0.52-HexanoneND0.51,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.51,1,1,2-TetrachloroethaneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5StyreneND0.5BromoformND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.5 <tr< td=""><td>trans-1 3-Dichloropropene</td><td>ND</td><td>0.5</td></tr<>	trans-1 3-Dichloropropene	ND	0.5
2-HexanoneND101,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5StyreneND0.5BromoformND0.5IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PronvlbenzeneND0.5PronvlbenzeneND0.51,2,3-TrichloropropaneND0.5PronvlbenzeneND0.51,2,3-TrichloropropaneND0.5PronvlbenzeneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.5 <td>1 1 2-Trichloroethane</td> <td>ND</td> <td>0.5</td>	1 1 2-Trichloroethane	ND	0.5
IndextoreNDIndextore1,3-DichloropropaneND0.5TetrachloroetheneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND0.51,1,2,2-TetrachloroethaneND0.5JopropylbenzeneND0.5JopropylbenzeneND0.51,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PronylbenzeneND0.5PronylbenzeneND0.51,2,3-TrichloropropaneND0.5ND0.50.5ND0.5ND0.51,2,3-TrichloropropaneND0.5ND0.5ND0.5ND0.5ND0.5	2-Hexanone	ND	10
TetrachlorophoneND0.5DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5o-XyleneND0.5BromoformND0.5IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.5BromoformND0.5IsopropylbenzeneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.50.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.5 <t< td=""><td>1 3-Dichloropropane</td><td>ND</td><td></td></t<>	1 3-Dichloropropane	ND	
DibromochloromethaneND0.51,2-DibromoethaneND0.5ChlorobenzeneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.5J.1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.50.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-TrichloropropaneND0.51,3-Trichloropr	Tetrachloroethene	ND	0.5
1,2-DibromotifierND0.51,2-DibromotifierND0.5ChlorobenzeneND0.51,1,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.50.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5	Dibromochloromethane	ND	0.5
ChlorobenzeneND0.51,1,2-TetrachloroethaneND0.5EthylbenzeneND0.5m,p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND0.51,1,2,2-TetrachloroethaneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.50.51,2,3-TrichloropropaneND0.50.50.50.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.51,2,3-TrichloropropaneND0.5	1 2-Dibromoethane	ND	0.5
InformationND0.51,1,2-TetrachloroethaneND0.5m,p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND0.5IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.50.50.50.51,2,3-TrichloropropaneND0.50.50.50.5	Chlorobenzene	ND	0.5
Image: Provide the sector of	1 1 1 2-Tetrachloroethane	ND	0.5
IncludeND0.5m, p-XylenesND0.5o-XyleneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	Fthylbenzene	ND	0.5
m,pNp0.5o-XyleneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	m n-Xylenes	ND	0.5
StyreneND0.5StyreneND0.5BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	o-Xylene	ND	0.5
BromoformND1.0IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	Styrene	ND	0.5
IsopropylbenzeneND0.51,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	Bromoform	ND	1 0
1,1,2,2-TetrachloroethaneND0.51,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	Igopropylbenzene	ND	1.0 0.5
1,2,3-TrichloropropaneND0.5PropylbenzeneND0.5	1 1 2 2-Tetrachloroethane	ND	0.5
Propylbenzene ND 0.5	1 2 3-Trichloropropane	ND	0.5
	Propylbenzene	ND	0.5



Purgeable Organics by GC/MS					
Lab #:	236951	Location:	VW Dealership, Oakland		
Client:	Arcadis	Prep:	EPA 5030B		
Project#:	ЕМ001048.0001-0001	Analysis:	EPA 8260B		
Туре:	BLANK	Diln Fac:	1.000		
Lab ID:	QC644152	Batch#:	187602		
Matrix:	Water	Analyzed:	06/14/12		
Units:	ug/L				

Analyte	Result	RL	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	2.0	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Surrogate	%REC Limit:	S	
Dibromofluoromethane	99 80-12	5	
1,2-Dichloroethane-d4	123 69-14	5	
Toluene-d8	99 80-120	0	
Bromofluorobenzene	95 80-120	0	

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Total Di	ssolved Solids (TI.	DS)
Lab #:	236951	Location:	VW Dealership, Oakland
Client:	Arcadis	Prep:	METHOD
Project#:	EM001048.0001-0001	Analysis:	SM2540C
Analyte:	Total Dissolved Solids	Sampled:	06/08/12
Matrix:	Water	Received:	06/08/12
Units:	mg/L	Prepared:	06/14/12
Diln Fac:	1.000	Analyzed:	06/15/12
Batch#:	187629		
Field ID	Type Lab ID	Result	RL
MW7	SAMPLE 236951-001	290	10
VW1	SAMPLE 236951-002	210	10
MW3	SAMPLE 236951-003	310	10
VW2	SAMPLE 236951-004	370	10
MW1	SAMPLE 236951-005	410	10
VW3	SAMPLE 236951-006	370	10
DUP	SAMPLE 236951-008	210	10
	BLANK QC644265	ND	10



Total Dissolved Solids (TDS)									
Tab #•	226051	Logation	WW Doolonghin Ookland						
	TCKOC7	LOCALION.	vw Dealersnip, Oakland						
Client:	Arcadis	Prep:	METHOD						
Project#:	ЕМ001048.0001-0001	Analysis:	SM2540C						
Analyte:	Total Dissolved Solids	Batch#:	187629						
Field ID:	ZZZZZZZZZ	Sampled:	06/12/12						
MSS Lab ID:	237041-001	Received:	06/12/12						
Matrix:	Water	Prepared:	06/14/12						
Units:	mg/L	Analyzed:	06/15/12						
Diln Fac:	1.000								

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC644266		104.0	92.00		88	73-120		
BSD	QC644267		104.0	88.00		85	73-120	4	5
SDUP	QC644268	402.0		398.0	10.00			1	5

RL= Reporting Limit RPD= Relative Percent Difference Page 1 of 1