STROUGH REVOCABLE TRUST
2 SEA VIEW
PIEDMONT, CA 94611

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 9502-6577

Subject: Former Val Strough Chevrolet Site
327 34th Street, Oakland, CA
Site ID #3035, RO#0000134

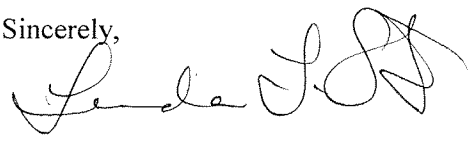
Dear Ms. Jakub:

This letter is to accompany the *Fourth Quarter 2009 Groundwater Monitoring Report* for the above-referenced site prepared by LRM Consulting, Inc. of Burlingame, CA.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions, please contact Mr. Mehrdad Javaherian of LRM Consulting, Inc. at 650-343-4633.

Sincerely,



Linda L. Strough, Trustee

cc: Mehrdad Javaherian, LRM Consulting, Inc.,
1534 Plaza Lane, #145, Burlingame, CA 94010

Greggory Brandt, Wendel Rosen Black & Dean,
1111 Broadway, 24th Floor, Oakland, CA 94607

FOURTH QUARTER 2009
GROUNDWATER
MONITORING REPORT

Former Val Strough Chevrolet Site
327 34th Street, Oakland, California
Fuel Leak Case No. RO0000134

Prepared by
LRM Consulting, Inc.
1534 Plaza Lane, #145
Burlingame, CA 94010

January 2010

FOURTH QUARTER 2009 GROUNDWATER MONITORING REPORT

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January 2010

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1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, LRM Consulting, Inc. (LRM) has prepared this *Fourth Quarter 2009 Groundwater Monitoring Report* for the former Val Strough Chevrolet located in Oakland, California. This report documents the procedures and findings of the December 4, 2009 groundwater monitoring event reflecting water quality reporting and water level gauging for all site wells per the existing Alameda County Health Care Services Agency (ACHCSA)-approved monitoring program for the site.

The scope of groundwater monitoring for this quarter corresponded to the ACHCSA-approved program, which for this quarter corresponds to gauging from all eleven site wells, and sampling from the select wells according to the recommended schedule. Also worth noting is that this monitoring reflects groundwater conditions approximately over three years following cessation of the dual phase extraction (DPE) system at the site; the operation of the DPE system was ceased on 30 June 2006. Groundwater monitoring data and well construction details are shown on the figures and presented in the tables. Groundwater monitoring protocols, field data, and analytical results are provided in the appendices.

1.1 General Site Information

Site name:	Former Val Strough Chevrolet
Site address:	327 34th Street, Oakland, California
Current property owner:	Strough Family Trust of 1983
Current site use:	Automotive Dealership and Service Center
Current phase of project:	Groundwater monitoring and evaluation of need and approaches for additional remediation
Tanks at site:	Two former tanks (1 gasoline, 1 waste-oil) removed in 1993
Number of wells:	8 (all onsite)
Site ID #:	3035
RO #:	0000134

1.2 Site Contacts

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Regulatory agency:

Barbara Jakub, P.G.
Alameda County Health Services Agency
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Alameda, CA 94502-6577
(510) 567-6746

2.0 SITE BACKGROUND

2.1 Site Description

Site Location and Land Use: The former Val Strough Chevrolet site is currently an active Honda automobile dealership and service center located on the southwestern corner of the intersection of Broadway (Auto Row) and 34th Street (Figure 1). The property is located south of Interstate 580. Land use in the area is primarily commercial.

The site is situated approximately two miles east of San Francisco Bay at approximately 61 feet above mean sea level (msl) (EDR, 2003). The land surface in the vicinity slopes toward the south. The nearest surface water body is Lake Merritt, located approximately 1 mile south of the site (Figure 1).

Site Features: The site consists of a multi-level building and an adjacent parking lot (Figure 2). The former fuel dispenser and underground storage tanks (USTs) were located in the northwestern portion of the site. Seven groundwater monitoring wells are located at the site. Construction details for the wells are presented in Table 1.

Underground Utilities: A box culvert for a former tributary of Glen Echo Creek is located approximately 17 feet below ground surface (bgs) in the eastern portion of the site (Figure 2). The culvert consists of a reinforced concrete box measuring 5 feet by 6 feet. During the winter of 1983, a section of the culvert collapsed and was replaced with a 5-foot-diameter pipeline.

Sanitary sewer, electrical, and natural gas utilities are generally present at depths less than 2 feet bgs at the site. Approximately 40 feet north of the site, along the northern edge of 34th Street, a storm sewer pipeline flows toward the east and into the box culvert. Sanitary sewer lines run parallel to both 34th Street and Broadway, north and east of the site, respectively. A lateral pipeline located along the western edge of the site connects to the sanitary sewer line below 34th Street. Natural gas service is located on the east side of the property. Water service appears to enter the site from the north.

Water Supply Well Search: A 2003 report compiled by EDR indicates that there are no federal U.S. Geological Survey wells and no public water supply wells located within a 1-mile radius of the site. No water supply wells were identified by the Alameda County Department of Public Works within a ½-mile radius of the site (ETIC, 2003).

2.2 Summary of Previous Investigations and Monitoring Activities

As presented in previous reports, the USTs were removed and multiple investigations, including the installation of seven groundwater monitoring wells, were conducted. In addition, a routine groundwater monitoring program has been in place since 1993. The following paragraphs summarize the findings of these activities.

Site Hydrogeology: In general, the site is underlain by silt and clay to depths ranging from approximately 15 to 20 feet bgs. Silty sand and fine-grained sand interbedded with thin clay intervals are encountered from approximately 20 feet bgs to the total explored depth of 35 feet bgs.

The depth to groundwater beneath the site has ranged from approximately 12.5 to 23 feet bgs. As shown in the modified rose diagram on Figure 2, the direction of groundwater flow is generally toward the southwest to south-southeast, with average hydraulic gradients ranging from approximately 0.01 to 0.03 foot/foot.

Primary Sources: Two USTs (one gasoline and one waste-oil) were located beneath the sidewalk on the northern side of the property. A fuel dispenser was located inside the building (Figure 2). These primary sources of petroleum hydrocarbons were removed from the site in 1993.

Constituents of Potential Concern: Based on the type of fuel stored in the USTs and the results of previous subsurface investigations, the constituents of potential concern (COPCs) at the site include total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE). TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) are not routinely detected in groundwater samples and are considered secondary COPCs for the site.

Residual Source Area: Elevated concentrations of TPH-g, BTEX, and MTBE have been observed in soil in the vadose zone and upper portion of the water-bearing zone near the former USTs and fuel dispenser. Separate phase petroleum hydrocarbons (SPH) have been intermittently detected in wells MW-2 and MW-3, but none since March 2004 in MW-3 and June 2006 in MW-2. These data suggest that most of the residual petroleum hydrocarbon mass is present near the former USTs and fuel dispenser, herein referred to as the residual source area; this is corroborated by the dissolved groundwater data discussed below. Additional wells recently installed within this residual source area include MW9A/9B and O1.

Petroleum Hydrocarbon Distribution in Groundwater: The highest concentrations of petroleum hydrocarbons have been detected in samples collected from wells MW-2, MW-3, MW9A/9B, and O1, located immediately downgradient of the former USTs and within the previously defined residual source area. Significantly lower levels of petroleum hydrocarbons have been detected in samples collected from well MW-4 and the other site wells located downgradient and outside of the residual source area. The extent of dissolved-phase petroleum hydrocarbons in groundwater is largely defined by relatively low and stable TPH-g, BTEX, and MTBE concentrations detected in downgradient and cross-gradient monitoring wells MW-5, MW-6, MW-7, and MW-8 (Tables 2 and 3).

2.3 Summary of Interim Remedial Action Activities

In addition to the routine groundwater monitoring activities, remediation pilot testing and remediation activities were conducted at the site between 2004 and 2006. A summary of these activities and associated regulatory correspondence with the ACHCSA are presented below:

DPE Pilot Test: In March 2004, ETIC Engineering, Inc. (ETIC) performed a DPE pilot test at the site. As summarized in the June 2004 *Dual Phase Extraction Pilot Test and Interim Remedial Action Plan* (DPE and IRAP Report), vacuum was applied to source area wells MW-2 and MW-3 while water and vacuum levels were measured in nearby monitoring wells. The DPE pilot test induced more than 1 foot of drawdown up to 50 feet from the extraction wells and an estimated radius of vacuum influence of 55 to 70 feet. Based on vapor flow rates and petroleum hydrocarbon concentrations in the vapor stream during the short-term pilot test, removal rates of approximately 90 pounds of petroleum hydrocarbons per day were estimated.

June 2004 DPE and IRAP Report: The DPE and interim remedial action plan (IRAP) Report (ETIC, 2004) described the planned reduction of residual petroleum hydrocarbon mass in the source area through temporary DPE system installation and operation and dual phase extraction from source area wells MW-2 and MW-3 to extract soil vapor and groundwater simultaneously. The system was designed to consist of a knockout vessel to be used for separation of the soil vapor and water streams. A thermal oxidizer (with propane as a supplemental fuel) was proposed for treatment of extracted vapor, and aqueous-phase granular activated carbon was proposed for treatment of extracted groundwater.

Interim Remedial Action: Between February 2005 and June 2006, ETIC operated a DPE system on site. Vacuum was applied to remove groundwater and soil vapor from up to two wells (MW-2 and/or MW-3). The system was temporarily shutdown on 30 January 2006 for conversion of vapor treatment from thermal oxidation to carbon filtration, and remained offline until 22 May 2006, when it was restarted. Because the mass removal rates by the DPE system had reached asymptotic levels and high petroleum hydrocarbon concentrations continued to exist in extraction wells MW-2 and MW-3 despite the DPE operation, the benefit of continuation of DPE in its current configuration was considered to be low and the DPE operation was ceased on 30 June 2006. ETIC subsequently dismantled the remediation system and removed the skid mounted DPE unit from the site.

August 2006 LRM Consulting, Inc. Correspondence and 11 December 2006 LRM Supplemental Source Area Investigation Work Plan: In a August 25, 2006 correspondence, LRM notified the ACHCSA of a project consultant change from ETIC to LRM. Also, based on a review of the available site data, the response of the hydrocarbon concentrations to past DPE operations, and the ACHCSA's comments on ETIC's Work Plan, LRM recommended a technical meeting with the ACHCSA to discuss the project direction. However, because of other commitments of Don Hwang and other ACHCSA staff, a technical meeting could not be scheduled. During a October 19, 2006 telephone conversation with Don Hwang, LRM

presented an approach to conduct a supplemental investigation to define the magnitude and extent of the residual source area in the vicinity of the former fuel dispenser and wells MW-2 and MW-3. Based on these discussions and as agreed by Mr. Hwang, a supplemental source area investigation work plan outlining the proposed scope of work was prepared and submitted to ACHCSA on 11 December 2006; this work plan was revised through multiple discussions with Donna Drogos of the ACHCSA and was finalized in December of 2007. The subject investigation was conducted beginning on December 12, 2007, the results of which were documented in a report to ACHCSA (LRM, 2008a).

August 2008 LRM Consulting, Inc. IRAP: In a August 25, 2008 IRAP report, LRM, in response to a request by Barbara Jakub of the ACHCSA, proposed a series of site investigation and pilot testing activities to address the residual source area at the site. These activities included: 1) soil and grab groundwater sampling to vertically characterize the extent of hydrocarbons within the residual source area previously encountered during the supplemental investigation referenced above; 2) grab groundwater sampling along the existing culvert at the site to evaluate the potential for preferential migration of hydrocarbons along the culvert backfill; 3), placement of a groundwater monitoring well (MW-8) at the downgradient site boundary to define the downgradient extent of hydrocarbons; and 4) pilot testing activities including injection and observation well installation and pilot testing protocols for implementation of in-situ oxygen curtain (iSOC) technology within the residual source area. In a letter dated December 5, 2008, the ACHCSA approved the proposed site investigation activities with select modifications listed. Additional information was also requested for the iSOC pilot testing, which were provided by LRM in its response to ACHCSA comment dated December 5, 2008. The investigation activities associated with the IRAP have been completed and reported to the ACHCSA. The ACHCSA has requested that an additional monitoring well be installed to monitor the proposed iSOC pilot testing.

July 2009 LRM Consulting, Inc. Well Installation: On July 15, 2009, wells MW9A and MW9B were installed using hollow stem augers as part of the monitoring program for the iSCO pilot testing. The well completion activity was observed by Ms. Vicky Hamlin of Alameda County Public Works and Ms. Barbara Jakub of Alameda County Environmental Health.

3.0 PROTOCOLS FOR GROUNDWATER MONITORING

The following sections of this report present information relevant to the methods employed during the collection of groundwater samples from site wells on December 4 and 28, 2009. The scope of work for the quarterly groundwater monitoring event at the site is listed below, with monitoring protocols summarized in Appendix A:

- Checking all wells for SPH.
- Gauging the depth to groundwater in all eleven site wells.
- Survey the newly installed wells (MW9A/9B, and O1).
- Purging the monitoring wells prior to sampling.
- Collecting and analyzing groundwater samples from select onsite wells.
- Estimating the hydraulic gradient and general flow direction.
- Evaluating the data and preparing a written report summarizing the results of the monitoring event.

3.1 Groundwater Gauging

For this round of monitoring, groundwater gauging was performed for all eleven onsite wells. No measurement was taken at well MW5 because the well was dry during this round of monitoring event. The monitoring wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to SPH, if present, were then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements were made from a fixed reference point at the top of the well casing.

The groundwater elevation contour map (Figure 2) for this monitoring event was constructed using depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2a. Field data forms are presented in Appendix B.

3.2 Well Survey

On November 12, 2009, Virgil Chavez Land Surveying (LLS # 6323) surveyed the locations of the newly installed monitoring wells (MW9A/9B and O1). The latitude and longitude coordinates were surveyed to NAD 83 (1986) datum, and the elevations were surveyed to the NAD 88 datum. The survey report is presented in Appendix C.

3.3 Well Purging

Following well gauging, three well casing volumes of water were purged from wells scheduled to be sampled (MW1 through MW4, MW6, MW9B, and O1), and field parameters including temperature, pH, specific conductance, and dissolved oxygen (DO) were measured.

Well MW9A could not be purged due to insufficient water. Groundwater monitoring protocols are presented in Appendix A.

3.4 Groundwater Sampling

After purging, groundwater was sampled at each of the wells scheduled to be sampled using dedicated tubing and a WaTerra inertial pump, or a disposable bailer. Because of insufficient water in well MW9A, a groundwater sample was collected without purging using a peristaltic pump on December 28, 2009. Sample containers were sealed, labeled, stored in a cooler and transported under chain-of-custody protocol to Kiff Analytical LLC (Kiff), a state-certified analytical laboratory in Davis, California. Groundwater analytical results and chain-of-custody documentation are presented in Appendix D.

4.0 MONITORING RESULTS

4.1 Separate-Phase Hydrocarbon Monitoring

The wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPHs were not observed in any wells during the gauging event conducted on December 4, 2009; however SPHs were observed during sampling at well MW9A on December 28, 2009, with an estimated thickness of 0.36 inch (see Appendix B).

4.2 Groundwater Elevation and Hydraulic Gradient

On December 4, 2009, the depth to groundwater beneath the site ranged from 16.27 (MW8) to 24.42 (MW9A) feet bgs (Table 2a). Correspondingly, groundwater elevations in the site wells ranged from 40.53 feet above msl in well MW6 to 42.39 feet above msl in well MW7 (Figure 2); these depth to groundwater measurements mark a decline in water levels by approximately 1.8 feet in most wells relative to the previous quarter. Using the results from the fourth quarter 2009 monitoring event, the hydraulic gradient is estimated at an average of 0.018 ft/ft, with a general flow direction away from the residual source area toward the southwest (see Figure 2).

4.3 Groundwater Analytical Results

On December 4, 2009, groundwater samples were collected from wells MW1 through MW4, MW6, MW9B, and O1, and analyzed by Kiff for TPH-g, BTEX, and MTBE by EPA Method 8260B and for TPH-d and TPH-mo by modified EPA Method 8015. No groundwater sample was collected form MW9A due to insurfficient amount of water in this well; however, a second site visit was conducted on December 28, 2009 and a groundwater sample was collected at well MW9A without purging.

Analytical results for this event are presented on Figure 3, and historical petroleum hydrocarbon analytical results are presented in Table 2a. Natural attenuation parameters, including field parameters such as DO, are summarized in Table 2b. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix D. Laboratory analytical results for petroleum hydrocarbons are summarized below:

- TPH-g was detected in samples collected from wells MW2, MW3, MW9A, MW9B, and O1. The maximum TPH-g concentration was detected at well MW9A (180,000 µg/L). TPH-g remained below the detection limit of 50 µg/L in wells MW1, MW4, and MW6.
- Benzene was detected in the samples collected from wells MW2, MW3, MW9A, MW9B, and O1. The maximum benzene concentration was detected at well MW9A (12,000 µg/L). Benzene was below the detection limit of 0.5 µg/L in wells MW1, MW4, and MW6.

- Toluene was detected at wells MW2, MW3, MW9A, MW9B, and O1. The maximum toluene concentration was detected at well MW9A (34,000 µg/L), but remained below the detection limit of 0.50 µg/L in wells MW1, MW4, and MW6.

- Ethylbenzene was detected at wells MW2, MW3, MW9A, MW9B, and O1. The maximum ethylbenzene concentration was detected at well MW9A (4,300 µg/L), but remained below the detection limit of 0.50 µg/L in well MW1, MW4, and MW6.

- Total xylenes were detected at wells MW2, MW3, MW9A, MW9B, and O1. The maximum total xylenes concentration was detected at well MW9A (24,000 µg/L), but remained below the detection limit of 0.50 µg/L in wells MW1, MW4, and MW6.

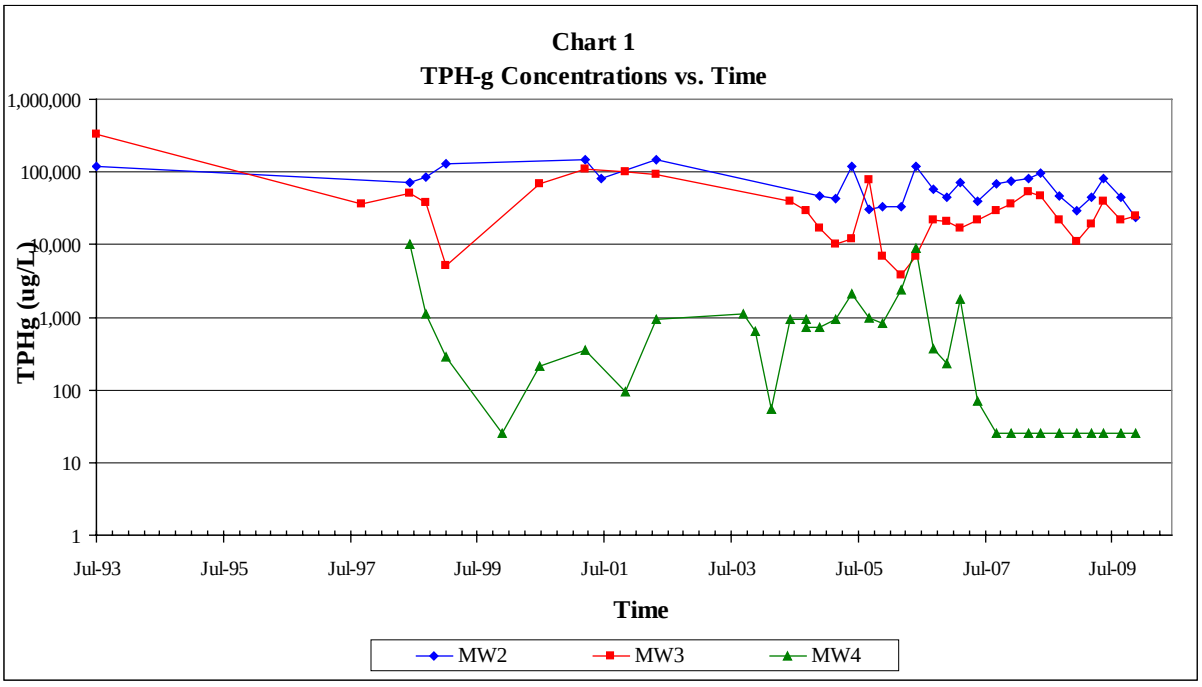
- MTBE was detected in the samples collected from seven out of eight wells (MW2 through MW4, MW6, MW9A, MW9B, and O1). The maximum MTBE concentration was detected at well MW9A (2,100 µg/L). MTBE remained below the detection limit of 0.5 µg/L at well MW-1.

- Tert-butanol (TBA) was detected in the samples collected from four wells (MW2, MW3, MW9A, and O1). The maximum TBA concentration was detected at well MW9A (680 µg/L). TBA was detected below the laboratory reporting limit of 5.0 µg/L in wells MW2 and MW3.

- TPH-d was not detected in groundwater samples collected from any of the sampled wells this quarter, although detection limits in samples from wells MW2, MW3, MW9A, MW9B, and O1 were elevated due to interference from gasoline-range hydrocarbons (see Appendix D).

- TPH-mo was detected at concentrations of 3,400 µg/L in well MW9A and 170 µg/L in well MW2, but remained below the detection limit of 100 µg/L in all other sampled wells.

Chart 1 below depicts TPH-g concentration trends for wells MW-2 and MW-3 located within the residual source area, and MW-4 located immediately downgradient of this location. As indicated on the chart, the TPH-g concentration in the 4th Quarter 2009 event decreased in well MW-2 compared to the previous quarter (3rd quarter 2009). Specifically, at well MW-2, TPH-g has decreased from 45,000 µg/L to 24,000 µg/L, while TPH-g concentration at well MW-3 has slightly increased from 22,000 µg/L to 25,000 µg/L between the 3rd quarter 2009 and 4th quarter 2009 events. These declines are consistent with those observed in previous 4th quarter monitoring events and reflect the influence of water level fluctuations (i.e, low water-level conditions). As such, it appears that hydrocarbon mass is concentrated within the upper portions of the capillary fringe, such that higher concentrations correspond to higher water levels within the residual source area (see Table 2a)



As shown on Table 2a, benzene concentrations for both MW-2 and MW-3 also decreased. Specifically, at well MW-2, benzene has decreased from 700 µg/L to 290 µg/L, while benzene concentration at well MW-3 has decreased from 1,800 µg/L to 1,600 µg/L between the 3rd quarter 2009 and 4th quarter 2009 events. Similar trends were observed during past 4th quarter monitoring events.

Also within the residual source area, lower petroleum hydrocarbon concentrations were observed at well MW9B during this event compared to the previous event. Conversely, higher petroleum hydrocarbon concentrations were observed at wells MW9A and O1.

Away from the residual source area, TPH-g levels in well MW-4 continued their observed decline over time and remain below detection limits over the past several rounds of monitoring regardless of the water level changes (see Chart 1 and Table 2a). Data from well MW-6 also indicate the general absence of TPH-g and BTEX compounds above detection limits over the past several years, and low level detections of MTBE at well MW-6.

Overall, a continued decline of petroleum hydrocarbon concentrations was observed in all wells, except wells MW9A and O1 located within the residual source area.

5.0 PLANNED ACTIVITIES

5.1 Remediation Related Activities

As discussed via electronic mail dated November 9, 2009, this round of monitoring for wells within the residual source area, and in particular at newly installed well MW9A, were going to be reviewed to confirm that iSOC pilot testing should proceed as planned. Because of SPHs and significant concentrations of petroleum hydrocarbons have been observed at the newly installed well MW9A over two quarters, it appears that the center of mass of the residual source area is more concentrated and is located adjacent to MW9A, rather than the lower levels encountered at well MW-2 and previously considered as the most concentrated residual source area well. Based on these higher hydrocarbon concentrations, LRM is of the opinon that iSOC technology may have limited success within the residual source area. Hence, as allotted for in the approved IRAP for the site, an addendum to the IRAP will be prepared to outline a more appropriate technology for the residual source area. This addendum is under preparation and will be submitted under separate cover.

5.2 Planned Monitoring Activities

Quarterly monitoring per the ACHCSA-approved plan will continue, with the next round scheduled for March 2010 (Table 4).

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TABLES

TABLE 1 WELL CONSTRUCTION DETAILS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well ID	Well Installation Date	Top-of-Casing Elevation* (feet)	Casing Material	Total Depth of Borehole (ft bgs)	Casing Diameter (inches)	Screened Interval (ft bgs)	Slot Size (inches)	Filter Pack Interval (ft bgs)	Filter Pack Material
MW1	7/19/1993	64.71	PVC	32	2	17 to 32	0.020	15 to 32	Gravel Pack
MW2	7/20/1993	65.71	PVC	33	2	18 to 33	0.020	16 to 33	Gravel Pack
MW3	7/20/1993	65.7	PVC	34	2	18 to 34	0.020	16 to 34	Gravel Pack
MW4	6/26/1998	64.37	PVC	31	2	15 to 31	0.020	13 to 31.5	Lonestar #3 Sand
MW5	6/26/1998	65.59	PVC	31	2	15 to 31	0.020	13 to 31.5	Lonestar #3 Sand
MW6	7/17/2000	59.60	PVC	31.5	2	10 to 30	0.020	8 to 30	Lonestar #3 Sand
MW7	7/17/2000	59.49	PVC	36.5	2	15 to 35	0.020	13 to 35	Lonestar #3 Sand
MW8	12/17/2008	57.07	PVC	26	1	11 to 26	0.010	9 to 26	#2/12 Sand
O1	12/12/2008	65.91	PVC	40	2	15 to 40	0.020	13 to 40	#3 Sand
MW9A	7/15/2009	65.90	PVC	25	2	15 to 25	0.020	14 to 25	#3 Monterey Sand
MW9B	7/15/2009	65.85	PVC	39	2	29 to 39	0.020	28 to 39	#3 Monterey sand

Abbreviations:
ft bgs feet below ground surface
PVC Polyvinyl chloride.

Note:
* Elevations Based on Survey Conducted in 1st Quarter 2009 relative to NAVD88 datum. Wells O1, MW9A, and MW9B were surveyed on November 12, 2009.

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW1	07/27/93	100.00	a	20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--
MW1	10/02/97	100.00	a	21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<2.0	--
MW1	06/30/98	100.00	a	18.21	81.79	0.00	<0.50	<0.50	2.1	0.6	84	--	--	2.1	--
MW1	07/29/98	100.00	a	18.74	81.26	0.00	--	--	--	--	--	--	--	--	--
MW1	08/26/98	100.00	a	19.28	80.72	0.00	--	--	--	--	--	--	--	--	--
MW1	10/01/98	100.00	a	19.93	80.07	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW1	10/30/98	100.00	a	20.22	79.78	0.00	--	--	--	--	--	--	--	--	--
MW1	11/30/98	100.00	a	19.99	80.01	0.00	--	--	--	--	--	--	--	--	--
MW1	12/28/98	100.00	a	19.81	80.19	0.00	--	--	--	--	--	--	--	--	--
MW1	01/25/99	100.00	a	19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW1	02/26/99	100.00	a	17.18	82.82	0.00	--	--	--	--	--	--	--	--	--
MW1	03/24/99	100.00	a	17.28	82.72	0.00	--	--	--	--	--	--	--	--	--
MW1	05/12/99	100.00	a	17.91	82.09	0.00	--	--	--	--	--	--	--	--	--
MW1	12/15/99	100.00	a	21.01	78.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--
MW1	03/20/00	100.00	a	16.25	83.75	0.00	--	--	--	--	--	--	--	--	--
MW1	07/20/00	100.00	a	19.63	80.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	3.4	--
MW1	10/11/00	100.00	a	20.80	79.20	0.00	--	--	--	--	--	--	--	--	--
MW1	04/10-11/01	100.00	a	18.81	81.19	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	1.2	--
MW1	07/10/01	100.00	a	20.51	79.49	0.00	--	--	--	--	--	--	--	--	--
MW1	11/20/01	64.69	b	21.36	43.33	0.00	<0.50	1.3	<0.50	0.81	<50	<50	<300	<2.0	--
MW1	02/19/02	64.69	b	18.95	45.74	0.00	--	--	--	--	--	--	--	--	--
MW1	05/21/02	64.69	b	19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	--
MW1	06/27/03	64.69	b	19.93	44.76	0.00	--	--	--	--	--	--	--	--	--
MW1	09/29/03	64.69	b	21.24	43.45	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW1	12/12/03	64.69	b	21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<0.50	--
MW1	03/15/04	64.69	b	18.18	46.51	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW1	06/24/04	64.69	b	20.48	44.21	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW1	09/29/04	64.69	b	21.37	43.32	0.00	<0.50	0.51	<0.50	<1.0	<50	<50	<500	<0.50	--
MW1	12/13/04	64.69	b	20.63	44.06	0.00	--	--	--	--	--	--	--	--	--
MW1	03/14/05	64.69	b	18.69	46.00	0.00	<0.50	<0.50	<0.50	<1.0	<50	73	<500	<0.50	--
MW1	06/15/05	64.69	b	20.32	44.37	0.00	--	--	--	--	--	--	--	--	--
MW1	09/26/05	64.69	b	22.10	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW1	12/12/05	64.69	b	22.39	42.30	0.00	--	--	--	--	--	--	--	--	--
MW1	03/29/06	64.69	b	15.24	49.45	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	74	--
MW1	06/19/06	64.69	b	18.27	46.42	0.00	--	--	--	--	--	--	--	--	--
MW1	09/29/06	64.69	b	20.06	44.63	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	7.9	--
MW1	12/12/06	64.69	b	20.32	44.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	9.4	--
MW1	03/01/07	64.69	b	18.68	46.01	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	3.5	--
MW1	06/12/07	64.69	b	20.28	44.41	0.00	--	--	--	--	--	--	--	--	--
MW1	09/25/07	64.69	b	21.37	43.32	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	1.8	--
MW1	12/20/07	64.69	b	21.48	43.21	0.00	--	--	--	--	--	--	--	--	--
MW1	03/26/08	64.69	b	20.98	43.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW1	06/03/08	64.69	b	20.70	43.99	0.00	--	--	--	--	--	--	--	--	--
MW1	09/25/08	64.69	b	22.30	42.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.57	<5.0
MW1	12/29/08	64.69	b	21.77	42.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW1	03/24/09	64.71	l	18.68	46.03	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW1	06/02/09	64.71	l	19.60	45.11	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW1	09/10/09	64.71	l	21.20	43.51	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW1	12/04/09	64.71	l	22.86	41.85	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW2	07/27/93	101.27	a	22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000	--	--	--	--
MW2	10/02/97	101.27	a	22.91	78.36	0.43	*	*	*	*	*	*	*	*	--
MW2	06/30/98	101.27	a	19.69	81.58	0.45	7,300	18,000	2,500	15,600	72,000	--	--	5,500	--
MW2	07/29/98	101.27	a	20.11	81.16	0.29	--	--	--	--	--	--	--	--	--

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW2	01/25/99	101.27	a	20.80	80.47	0.01	9,000	26,000	3,800	27,500	130,000	--	--	5,800	--
MW2	02/26/99	101.27	a	18.00	83.27	sheen	--	--	--	--	--	--	--	--	--
MW2	03/24/99	101.27	a	18.27	83.00	trace	--	--	--	--	--	--	--	--	--
MW2	05/12/99	101.27	a	19.08	82.19	trace	--	--	--	--	--	--	--	--	--
MW2	12/15-16/99	101.27	a	22.42	78.85	0.025	*	*	*	*	*	*	*	*	--
MW2	03/20/00	101.27	a	17.09	84.18	0.026	--	--	--	--	--	--	--	--	--
MW2	07/20/00	101.27	a	20.86	80.41	0.017	*	*	*	*	*	*	*	*	--
MW2	10/11/00	101.27	a	22.10	79.17	0.00	--	--	--	--	--	--	--	--	--
MW2	04/10-11/01	101.27	a	19.98	81.29	0.00	8,000	22,000	2,600	23,500	150,000	1,500	<600	3,600	--
MW2	07/10/01	101.27	a	21.85	79.42	0.00	5,900	15,000	2,300	12,100	83,000	5,700	<1,500	2,800	--
MW2	11/20/01	65.95	b	22.75	43.20	0.00	--	--	--	--	--	--	--	--	--
MW2	02/19/02	65.95	b	20.12	45.83	0.00	--	--	--	--	--	--	--	--	--
MW2	05/21/02	65.95	b	21.10	44.85	0.00	8,600	25,000	3,500	26,000	150,000	31,000	<3,000	4,800	--
MW2	06/27/03	65.95	b	21.48	44.47	0.35	--	--	--	--	--	--	--	--	--
MW2	09/29/03	65.95	b	23.04	42.91	0.48	*	*	*	*	*	*	*	*	--
MW2[e]	12/12/03	65.95	b	22.75	43.31	0.16	*	*	*	*	*	*	*	*	--
MW2[e]	03/15/04	65.95	b	19.24	46.72	0.01	*	*	*	*	*	*	*	*	--
MW2[e]	06/24/04	65.95	b	22.10	44.06	0.31	*	*	*	*	*	*	*	*	--
MW2[e]	09/29/04	65.95	b	22.81	43.14	sheen	*	*	*	*	*	*	*	*	--
MW2[e]	12/13/04	65.95	b	22.06	43.95	0.08	3,700	12,000	1,900	10,000	47,000	2,600	<500	1,200	--
MW2[j]	03/14/05	65.95	b	25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000	<5,000	<200	--
MW2	06/15/05	65.95	b	21.14	44.81	0.00	2,900	15,000	2,400	22,000	120,000	13,000	<2,500	810	--
MW2	07/18/05	65.95	b	NM	NC	NM	2,700	13,000	1,800	15,000	120,000	17,000	--	530	--
MW2	09/26/05	65.95	b	22.93	43.02	0.00	570	4,000	620	6,200	31,000	63,000	28,000	<50	--
MW2	12/12/05	65.95	b	25.40	40.55	0.00	670	5,300	1,100	9,800	34,000	2,800	<500	65	--
MW2	03/29/06	65.95	b	15.66	50.29	sheen	620	2,800	540	4,700	33,000	<4,000	<100	37	--
MW2	06/19/06	65.95	b	19.14	46.81	sheen	680	5,200	990	16,000	120,000	<30,000	1,900	170	--
MW2	09/29/06	65.95	b	21.16	44.79	0.00	1,200	5,100	1,200	9,300	59,000	<8000	300	230	--
MW2	12/12/06	65.95	b	21.46	44.49	0.00	850	4,400	1,100	8,900	45,000	<10000	360	110	--
MW2	03/01/07	65.95	b	19.48	46.47	0.00	1,400	5,200	980	9,500	71,000	<18000	460	160	--
MW2	06/12/07	65.95	b	20.98	44.97	0.00	1,300	4,900	1,200	8,900	40,000	<3000	<100	130	--
MW2	09/25/07	65.95	b	22.57	43.38	0.00	1,400	6,500	1,900	13,000	68,000	<12000	250	240	--
MW2	12/20/07	65.95	b	22.70	43.25	0.00	1,400	7,000	2,400	16,000	75,000	<5000	650	270	--
MW2	03/26/08	65.95	b	22.51	43.44	0.00	1,400	6,200	1,800	16,000	83,000	<10000	360	480	--
MW2	06/03/08	65.95	b	21.85	44.10	0.00	1,900	11,000	2,500	18,000	98,000	<12000	500	660	--
MW2	09/25/08	65.95	b	23.30	42.65	0.00	740	3,500	1,700	10,000	46,000	<8000	170	340	180
MW2	12/29/08	65.95	b	22.95	43.00	0.00	260	1,500	1,100	6,400	29,000	<4000	<100	110	<50
MW2	03/24/09	65.71	l	19.58	46.13	0.00	410	2,000	900	8,900	45,000	<8,000	420	300	210
MW2	06/02/09	65.71	l	20.50	45.21	0.00	680	3,100	1,200	10,000	80,000	<12000	480	330	180
MW2	09/10/09	65.71	l	22.40	43.31	0.00	700	3,000	1,300	9,400	45,000	< 8000	190	370	220
MW2	12/04/09	65.71	l	24.30	41.41	0.00	290	1,500	930	4,900	24,000	< 2000	170	200	92
MW3	07/27/93	101.29	a	22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--
MW3	10/02/97	101.29	a	22.71	78.58	0.03	4,200	11,000	1,800	10,600	36,000	--	--	3,500	--
MW3	06/30/98	101.29	a	19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	--
MW3	07/29/98	101.29	a	20.01	81.28	0.00	--	--	--	--	--	--	--	--	--
MW3	08/26/98	101.29	a	20.62	80.67	0.00	--	--	--	--	--	--	--	--	--
MW3	10/01/98	101.29	a	21.33	79.96	0.00	3,900	8,500	1,200	6,000	38,000	--	--	2,300	--
MW3	10/30/98	101.29	a	21.62	79.67	0.00	--	--	--	--	--	--	--	--	--
MW3	11/30/98	101.29	a	21.31	79.98	0.00	--	--	--	--	--	--	--	--	--
MW3	12/28/98	101.29	a	21.15	80.14	0.06	--	--	--	--	--	--	--	--	--
MW3	01/25/99	101.29	a	20.79	80.50	0.00	4,000	10,000	1200	6700	5,100	--	--	2900	--
MW3	02/26/99	101.29	a	18.02	83.27	0.00	--	--	--	--	--	--	--	--	--
MW3	03/24/99	101.29	a	18.37	82.92	0.00	--	--	--	--	--	--	--	--	--
MW3	05/12/99	101.29	a	19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--
MW3	12/15-16/99	101.29	a	22.43	78.86	0.00	*	*	*	*	*	*	*	*	--
MW3	03/20/00	101.29	a	17.14	84.15	0.00	--	--	--	--	--	--	--	--	--
MW3	07/20/00	101.29	a	20.98	80.31	0.00	5,700	14,000	1,600	9,300	69,000	2,900	<300	3,300	--
MW3	10/11/00	101.29	a	22.24	79.05	0.00	--	--	--	--	--	--	--	--	--
MW3	04/10-11/01	101.29	a	20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	--

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FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW3	07/10/01	101.29	a	21.97	79.32	0.00	--	--	--	--	--	--	--	--	--
MW3	11/20/01	65.99	b	22.80	43.19	0.00	6,300	16,000	2,400	14,900	100,000	5,900	<900	4,000	--
MW3	02/19/02	65.99	b	20.11	45.88	0.00	--	--	--	--	--	--	--	--	--
MW3	05/21/02	65.99	b	21.20	44.79	0.00	6,500	17,000	2,200	12,700	91,000	14,000	<3,000	2,200	--
MW3	06/27/03	65.99	b	21.32	44.67	sheen	--	--	--	--	--	--	--	--	--
MW3	09/29/03	65.99	b	22.79	43.20	sheen	*	*	*	*	*	*	*	*	--
MW3[e]	12/12/03	65.99	b	22.73	43.27	0.01	*	*	*	*	*	*	*	*	--
MW3[e]	03/15/04	65.99	b	19.32	46.67	sheen	*	*	*	*	*	*	*	*	--
MW3	06/24/04	65.99	b	21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--
MW3	09/29/04	65.99	b	22.54	43.45	0.00	2,900	6,700	980	4,300	29,000	2,200	<500	1,100	--
MW3	12/13/04	65.99	b	22.06	43.93	0.00	1,700	2,900	790	3,400	17,000	1,300	<500	490	--
MW3[j]	03/14/05	65.99	b	24.00	41.99	0.00	680	1,700	380	1,600	10,000	670	<500	67	--
MW3	06/15/05	65.99	b	21.13	44.86	0.00	260	960	330	1,400	12,000	1,200	<500	31	--
MW3	07/18/05	65.99	b	NM	NC	NM	1,000	5,600	1,100	4,300	23,000	1,700	--	81	--
MW3	09/26/05	65.99	b	22.92	43.07	0.00	4,000	17,000	1,900	17,000	79,000	5,100	540	270	--
MW3	12/12/05	65.99	b	23.30	42.69	0.00	200	710	450	1,400	7,000	550	<500	<10	--
MW3	03/29/06	65.99	b	15.70	50.29	0.00	110	300	130	490	3,800	<200	<100	13	--
MW3	06/19/06	65.99	b	19.11	46.88	0.00	160	500	320	840	7,000	<300	<100	3.1	--
MW3	09/29/06	65.99	b	21.15	44.84	0.00	1,300	2,300	720	2,900	22,000	<1500	<100	110	--
MW3	12/12/06	65.99	b	21.38	44.61	0.00	1,400	2,200	670	2,600	21,000	<1500	<100	130	--
MW3	03/01/07	65.99	b	19.50	46.49	0.00	1,100	2,500	510	2,200	17,000	<600	<100	51	--
MW3	06/12/07	65.99	b	21.00	44.99	0.00	1,800	4,000	800	3,300	22,000	<1500	<100	150	--
MW3	09/25/07	65.99	b	22.59	43.40	0.00	2,400	5,000	1,000	4,600	29,000	<500	<100	220	--
MW3	12/20/07	65.99	b	22.59	43.40	0.00	2,400	4,900	1,100	4,700	36,000	<2000	<100	240	--
MW3	03/26/08	65.99	b	22.13	43.86	0.00	4,500	11,000	1,700	7,800	54,000	<1500	<100	340	--
MW3	06/03/08	65.99	b	21.81	44.18	0.00	3,900	8,700	1,500	7,000	47,000	<1500	<100	470	--
MW3	09/25/08	65.99	b	23.30	42.69	0.00	1,600	3,700	700	3,300	22,000	<3000	<100	220	180
MW3	12/29/08	65.99	b	22.92	43.07	0.00	310	910	320	1,300	11,000	<1500	<100	35	23
MW3	03/24/09	65.70	l	19.43	46.27	0.00	1,400	4,200	600	2,500	19,000	<1,000	<100	160	60
MW3	06/02/09	65.70	l	20.70	45.00	0.00	2,800	7,600	1,300	5,600	39,000	<1,500	<100	240	180
MW3	09/10/09	65.70	l	22.32	43.38	0.00	1,800	3,900	790	3,500	22,000	< 1500	< 100	190	110
MW3	12/04/09	65.70	l	24.20	41.50	0.00	1,600	3,400	860	3,900	25,000	< 800	< 100	210	81
MW4	06/30/98	98.65	a	16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	--
MW4	07/29/98	98.65	a	17.48	81.17	0.00	--	--	--	--	--	--	--	--	--
MW4	08/26/98	98.65	a	18.65	80.00	0.00	--	--	--	--	--	--	--	--	--
MW4	10/01/98	98.65	a	18.74	79.91	0.00	570	46	130	36	1,100	--	--	1,300	--
MW4	10/30/98	98.65	a	19.02	79.63	0.00	--	--	--	--	--	--	--	--	--
MW4	11/30/98	98.65	a	18.74	79.91	0.00	--	--	--	--	--	--	--	--	--
MW4	12/28/98	98.65	a	18.60	80.05	0.00	--	--	--	--	--	--	--	--	--
MW4	01/25-26/99	98.65	a	18.32	80.33	0.00	230	<8.3	<8.3	<8.3	290	--	--	1,300	--
MW4	02/26/99	98.65	a	15.81	82.84	0.00	--	--	--	--	--	--	--	--	--
MW4	03/24/99	98.65	a	16.01	82.64	0.00	--	--	--	--	--	--	--	--	--
MW4	05/12/99	98.65	a	17.71	80.94	0.00	--	--	--	--	--	--	--	--	--
MW4	12/15-16/99	98.65	a	19.83	78.82	0.00	5.8	<0.50	<0.50	<0.50	<50	--	--	1,400	--
MW4	03/20/00	98.65	a	14.9	83.75	0.00	--	--	--	--	--	--	--	--	--
MW4	07/20/00	98.65	a	18.38	80.27	0.00	91	4.6	19	12.9	210	<50	<300	1,500	--
MW4	10/11/00	98.65	a	19.61	79.04	0.00	--	--	--	--	--	--	--	--	--
MW4	04/10-11/01	98.65	a	17.55	81.10	0.00	110	<5.0	<5.0	<5.0	350	<50	<300	1,100	--
MW4	07/10/01	98.65	a	19.34	79.31	0.00	--	--	--	--	--	--	--	--	--
MW4	11/20/01	63.35	b	20.16	43.19	0.00	<2.5	4	<2.5	3.7	96	<50	<300	2,500	--
MW4	02/19/02	63.35	b	17.34	46.01	0.00	--	--	--	--	--	--	--	--	--
MW4	05/21/02	63.35	b	18.57	44.78	0.00	340	5.7	70	<1.0	940	83	<300	1,600	--
MW4	06/27/03	63.35	b	18.72	44.63	0.00	--	--	--	--	--	--	--	--	--
MW4	09/29/03	63.35	b	20.11	43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50	<500	1,700	--
MW4	12/12/03	63.35	b	20.06	43.29	0.00	<13	<13	<13	<25	<1,300	<50	<500	1,000	--
MW4	03/15/04	63.35	b	16.89	46.46	0.00	1.5	<0.50	<0.50	<1.0	54	<50	<500	41	--
MW4	06/24/04	63.35	b	19.31	44.04	0.00	69	<5.0	<5.0	<10	920	<50	<500	1,100	--
MW4	09/29/04	63.35	b	20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940	<50	<500	1,200	--
MW4	12/13/04	**	b	20.44	NC	0.00	<5.0	<5.0	<5.0	<10	740	<50	<500	860	--

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW4	03/14/05	**	b	18.30	NC	0.00	20	<5.0	<5.0	<10	930	<50	<500	930	--
MW4	06/15/05	**	b	20.03	NC	0.00	350	6.1	<5.0	<10	2100	89	<500	1,100	--
MW4	07/18/05	**	b	NM	NC	NM	11	<5.0	<5.0	<10	540	<50	--	1,100	--
MW4	09/26/05	**	b	21.79	NC	0.00	<5.0	<5.0	<5.0	<10	960	<50	<500	660	--
MW4	12/12/05	**	b	21.89	NC	0.00	<5.0	<5.0	<5.0	<10	820	<50	<500	1,000	--
MW4	03/29/06	**	b	14.85	NC	0.00	49	160	120	300	2,400	<100	<100	130	--
MW4	06/19/06	**	b	17.96	NC	0.00	100	940	540	1,800	8,800	<400	<100	55	--
MW4	09/29/06	63.35	b	19.85	43.50	0.00	18.0	2.6	1.5	3.5	370.0	<50	<100	180	--
MW4	12/12/06	63.35	b	20.03	43.32	0.00	11.0	0.77	<0.5	<0.5	230.0	<50	<100	260	--
MW4	03/01/07	63.35	b	18.33	45.02	0.00	63.0	7.10	40.0	190.0	1,800.0	<50	<100	130	--
MW4	06/12/07	63.35	b	19.70	43.65	0.00	9.3	<0.5	<0.5	<0.5	70.0	<50	<100	150	--
MW4	09/25/07	63.35	b	21.27	42.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	300	--
MW4	12/20/07	63.35	b	21.30	42.05	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	370	--
MW4	03/26/08	63.35	b	20.89	42.46	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	260	--
MW4	06/03/08	63.35	b	20.51	42.84	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	190	--
MW4	09/25/08	63.35	b	22.03	41.32	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	380	<5.0
MW4	12/29/08	63.35	b	21.62	41.73	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	230	<5.0
MW4	03/24/09	64.37	l	18.38	45.99	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	370	<5.0
MW4	06/02/09	64.37	l	19.32	45.05	0.00	0.64	<0.5	<0.5	<0.5	<50	<50	<100	320	<5.0
MW4	09/10/09	64.37	l	21.00	43.37	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	280	< 5.0
MW4	12/04/09	64.37	l	22.76	41.61	0.00	< 0.50	< 0.50	< 0.50	2.9	< 50	< 50	< 100	430	< 5.0
MW5	06/30/98	100.9	a	20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	--
MW5	07/29/98	100.9	a	21.52	79.38	0.00	--	--	--	--	--	--	--	--	--
MW5	08/26/98	100.9	a	22.21	78.69	0.00	--	--	--	--	--	--	--	--	--
MW5	10/01/98	100.9	a	22.95	77.95	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW5	10/30/98	100.9	a	23.23	77.67	0.00	--	--	--	--	--	--	--	--	--
MW5	11/30/98	100.9	a	23.12	77.78	0.00	--	--	--	--	--	--	--	--	--
MW5	12/28/98	100.9	a	23.18	77.72	0.00	--	--	--	--	--	--	--	--	--
MW5	01/25-26/99	100.9	a	22.61	78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW5	02/26/99	100.9	a	19.78	81.12	0.00	--	--	--	--	--	--	--	--	--
MW5	03/24/99	100.9	a	20.25	80.65	0.00	--	--	--	--	--	--	--	--	--
MW5	05/12/99	100.9	a	21.06	79.84	0.00	--	--	--	--	--	--	--	--	--
MW5	12/15-16/99	100.9	a	24.19	76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--
MW5	03/20/00	100.9	a	19.15	81.75	0.00	--	--	--	--	--	--	--	--	--
MW5	07/20/00	100.9	a	21.84	79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	1.9	--
MW5	10/11/00	100.9	a	23.4	77.50	0.00	--	--	--	--	--	--	--	--	--
MW5	04/10-11/01	100.9	a	22.3	78.60	0.00	<0.50	2.6	<0.50	0.6	<50	<50	<300	1.5	--
MW5	07/10/01	100.9	a	23.64	77.26	0.00	--	--	--	--	--	--	--	--	--
MW5	11/20/01	65.59	b	24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	--
MW5	02/19/02	65.59	b	22.37	43.22	0.00	--	--	--	--	--	--	--	--	--
MW5	05/21/02	65.59	b	23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	--
MW5	06/27/03	65.59	b	23.07	42.52	0.00	--	--	--	--	--	--	--	--	--
MW5	09/29/03	65.59	b	24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50	<500	1.4	--
MW5	12/12/03	65.59	b	23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--
MW5	03/15/04	65.59	b	20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW5	06/24/04	65.59	b	23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	<500	0.79	--
MW5	09/29/04	65.59	b	24.44	41.15	0.00	--	--	--	--	--	--	--	--	--
MW5	12/13/04	65.59	b	23.87	41.72	0.00	--	--	--	--	--	--	--	--	--
MW5	03/14/05	65.59	b	20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--
MW5	06/15/05	65.59	b	12.96	52.63	0.00	--	--	--	--	--	--	--	--	--
MW5	09/26/05	65.59	b	23.60	41.99	0.00	--	--	--	--	--	--	--	--	--
MW5	12/12/05	65.59	b	23.84	41.75	0.00	--	--	--	--	--	--	--	--	--
MW5	03/29/06	65.59	b	17.19	48.40	0.00	<0.50	<0.50	<0.50	<0.50	73	<50	<100	<0.50	--
MW5	06/19/06	65.59	b	20.22	45.37	0.00	--	--	--	--	--	--	--	--	--
MW5	09/29/06	65.59	b	22.80	42.79	0.00	--	--	--	--	--	--	--	--	--
MW5	12/12/06	65.59	b	23.08	42.51	0.00	--	--	--	--	--	--	--	--	--
MW5	03/01/07	65.59	b	21.02	44.57	0.00	<0.50	<0.50	<0.50	<0.50	54	<50	<100	<0.50	--
MW5	06/12/07	65.59	b	22.78	42.81	0.00	--	--	--	--	--	--	--	--	--
MW5	09/25/07	65.59	b	24.45	41.14	0.00	<0.50	1.5	<0.50	<0.50	<50	<50	<100	0.64	--

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW5	12/20/07	65.59	b	24.52	41.07	0.00	--	--	--	--	--	--	--	--	--
MW5	03/26/08	65.59	b	24.08	41.51	0.00	<0.50	1.5	<0.50	<0.50	<50	<50	<100	<0.5	--
MW5	06/03/08	65.59	b	23.68	41.91	0.00	--	--	--	--	--	--	--	--	--
MW5	09/25/08	65.59	b	25.00	40.59	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.66	<5.0
MW5	12/29/08	65.59	b	24.92	40.67	0.00	<0.50	<0.50	<0.50	<0.50	71	<50	<100	<0.5	<5.0
MW5	03/24/09	65.59	l	21.85	43.74	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.54	<5.0
MW5	06/02/09	65.59	l	22.70	42.89	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.5	<5.0
MW5	09/10/09	65.59	l	24.12	41.47	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	0.56	< 5.0
MW5	12/04/09	65.59	l	dry	--	0.00	--	--	--	--	--	--	--	--	--
MW6	07/20/00	96.60	a	18.30	78.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	160	--
MW6	10/11/00	96.60	a	18.69	77.91	0.00	--	--	--	--	--	--	--	--	--
MW6	04/10-11/01	96.60	a	17.85	78.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	180	--
MW6	07/10/01	96.60	a	18.43	78.17	0.00	--	--	--	--	--	--	--	--	--
MW6	11/20/01	59.60	b	18.67	40.93	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	450	--
MW6	02/19/02	59.60	b	17.40	42.20	0.00	--	--	--	--	--	--	--	--	--
MW6	05/21/02	59.60	b	17.68	41.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	170	--
MW6	06/27/03	59.60	b	17.73	41.87	0.00	--	--	--	--	--	--	--	--	--
MW6	09/29/03	59.60	b	18.48	41.12	0.00	<1.0	<1.0	<1.0	<2.0	230	<50	<500	340	--
MW6	12/12/03	59.60	b	17.89	41.71	0.00	<2.5	<2.5	<2.5	<5.0	<250	51	<500	190	--
MW6	03/15/04	59.60	b	16.46	43.14	0.00	<1.0	<1.0	<1.0	<2.0	200	<50	<500	220	--
MW6	06/24/04	59.60	b	17.97	41.63	0.00	<1.0	<1.0	<1.0	<2.0	130	<50	<500	190	--
MW6	09/29/04	59.60	b	18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210	<50	<500	190	--
MW6	12/13/04	59.60	b	17.88	41.72	0.00	--	--	--	--	--	--	--	--	--
MW6	03/14/05	59.60	b	16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--
MW6	06/15/05	59.60	b	17.60	42.00	0.00	--	--	--	--	--	--	--	--	--
MW6	09/26/05	59.60	b	NM	NM	0.00	--	--	--	--	--	--	--	--	--
MW6	12/12/05	59.60	b	18.33	41.27	0.00	0.62	<0.50	<0.50	1.0	81	<50	<500	140	--
MW6	03/29/06	59.60	b	14.53	45.07	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	120	--
MW6	06/19/06	59.60	b	16.46	43.14	0.00	--	--	--	--	--	--	--	--	--
MW6	09/29/06	59.60	b	17.60	42.00	0.00	0.87	<0.50	<0.50	<0.50	<50	<50	<100	140	--
MW6	12/12/06	59.60	b	16.93	42.67	0.00	0.67	<0.50	<0.50	<0.50	<50	<50	230	89	--
MW6	03/01/07	59.60	b	16.30	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	78	--
MW6	06/12/07	59.60	b	17.38	42.22	0.00	--	--	--	--	--	--	--	--	--
MW6	09/25/07	59.60	b	18.36	41.24	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	89	--
MW6	12/20/07	59.60	b	17.90	41.70	0.00	--	--	--	--	--	--	--	--	--
MW6	03/26/08	59.60	b	17.37	42.23	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	68	--
MW6	06/03/08	59.60	b	17.11	42.49	0.00	--	--	--	--	--	--	--	--	--
MW6	09/25/08	59.60	b	18.82	40.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	78	<5.0
MW6	12/29/08	59.60	b	18.30	41.30	0.00	0.77	<0.50	<0.50	<0.50	<50	<50	<100	44	<5.0
MW6	03/24/09	59.60	l	16.80	42.80	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	51	<5.0
MW6	06/02/09	59.60	l	17.27	42.33	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	59	<5.0
MW6	09/10/09	59.60	l	18.20	41.40	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	73	< 5.0
MW6	12/04/09	59.60	l	19.07	40.53	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	50	< 5.0
MW7	07/20/00	96.75	a	15.93	80.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--
MW7	10/11/00	96.75	a	16.90	79.85	0.00	--	--	--	--	--	--	--	--	--
MW7	04/10-11/01	96.75	a	15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--
MW7	07/10/01	96.75	a	16.71	80.04	0.00	--	--	--	--	--	--	--	--	--
MW7	11/20/01	59.47	b	16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	--
MW7	02/19/02	59.47	b	14.92	44.55	0.00	--	--	--	--	--	--	--	--	--
MW7	05/21/02	59.47	b	15.18	44.29	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--
MW7	06/27/03	59.47	b	16.28	43.19	0.00	--	--	--	--	--	--	--	--	--
MW7	09/29/03	59.47	b	16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	0.62	--
MW7	12/12/03	59.47	b	14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW7	03/15/04	59.47	b	14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW7	06/24/04	59.47	b	16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	<500	<0.50	--
MW7	09/29/04	59.47	b	16.88	42.59	0.00	--	--	--	--	--	--	--	--	--
MW7	12/13/04	59.47	b	15.26	44.21	0.00	--	--	--	--	--	--	--	--	--
MW7	03/14/05	59.47	b	15.00	44.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW7	06/15/05	59.47	b	15.32	44.15	0.00	--	--	--	--	--	--	--	--	--
MW7	09/26/05	59.47	b	NM	NM	0.00	--	--	--	--	--	--	--	--	--
MW7	12/12/05	59.47	b	15.99	43.48	0.00	--	--	--	--	--	--	--	--	--
MW7	03/29/06	59.47	b	12.65	46.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW7	06/19/06	59.47	b	14.49	44.98	0.00	--	--	--	--	--	--	--	--	--
MW7	09/29/06	59.47	b	16.67	42.80	0.00	--	--	--	--	--	--	--	--	--
MW7	12/12/06	59.47	b	15.21	44.26	0.00	--	--	--	--	--	--	--	--	--
MW7	03/01/07	59.47	b	14.68	44.79	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW7	06/12/07	59.47	b	16.2	43.27	0.00	--	--	--	--	--	--	--	--	--
MW7	09/25/07	59.47	b	16.72	42.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW7	12/20/07	59.47	b	15.02	44.45	0.00	--	--	--	--	--	--	--	--	--
MW7	03/26/08	59.47	b	15.95	43.52	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW7	06/03/08	59.47	b	14.24	45.23	0.00	--	--	--	--	--	--	--	--	--
MW7	09/25/08	59.47	b	17.07	42.40	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	12/29/08	59.47	b	15.64	43.83	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	03/24/09	59.49	l	14.57	44.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	06/02/09	59.49	l	16.10	43.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	09/10/09	59.49	l	17.10	42.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	12/04/09	59.49	l	17.10	42.39	0.00	--	--	--	--	--	--	--	--	--
MW8	12/29/08	NS	b	15.71	NC	0.00	<0.50	0.64	<0.50	0.78	<50	<50	<100	1.5	<5.0
MW8	03/24/09	57.07	l	16.08	40.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW8	06/02/09	57.07	l	15.46	41.61	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW8	09/10/09	57.07	l	15.58	41.49	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	2.4	< 5.0
MW8	12/04/09	57.07	l	16.27	40.80	0.03	--	--	--	--	--	--	--	--	--
MW9A	09/10/09	65.90		22.51	43.39	0.00	7,800	33,000	4,500	25,000	160,000	< 20,000	410	1,800	780
MW9A	12/04/09	65.90		24.42	41.48	0.00	--	--	--	--	--	--	--	--	--
MW9A (m)	12/28/09	65.90		24.62	41.28	sheen	12,000	34,000	4,300	24,000	180,000	<200,000	3,400	2,100	680
MW9B	09/10/09	65.85		22.30	43.55	0.00	640	4,500	1,100	6,500	36,000	< 3,000	< 100	61	< 50
MW9B	12/04/09	65.85		24.00	41.85	0.00	63	250	180	620	5,600	< 300	< 100	3.1	< 5.0
O1	09/10/09	65.91		22.44	43.47	0.00	960	2,400	1,000	4,600	23,000	< 1,500	< 100	180	84
O1	12/04/09	65.91		24.33	41.58	0.00	1,000	3,700	1,700	7,400	38,000	< 1000	< 100	310	200

SPH	Separate-phase hydrocarbons.
GW	Groundwater.
TPH-g	Total Petroleum Hydrocarbons as gasoline.
TPH-d	Total Petroleum Hydrocarbons as diesel.
TPH-mo	Total Petroleum Hydrocarbons as motor oil.
MTBE	Methyl tertiary butyl ether.
TBA	Tertiary Butyl Alcohol
NC	Not calculated.
NS	Not surveyed
µg/L	Micrograms per liter.
*	SPH present; not sampled.
**	Well MW4 elevation modified due to site renovation activities. Not Surveyed.
--	Not analyzed or not sampled.
<	Less than the laboratory reporting limits.
a	Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.
b	Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
c	Analysis not conducted due to broken sample containers.
d	Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.
e	Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value to the water elevation.
f	Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.
g	Sample contained discrete peak in gasoline range and identified by lab as MTBE.
h	Quantity of unknown hydrocarbon(s) in sample based on diesel.

TABLE 2a CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA

i The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j Depth to groundwater is based on the depth of the stingers.

k Quantity of unknown hydrocarbon(s) in sample based on mtor oil.

l Resurveyed Prior to 1st Quarter 2009 Measurements

m The well was not purged due to insufficient water.

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW1	07/27/93	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/02/97	--	--	--	--	--	--	--	--	--	--	--	--
MW1	06/30/98	204	5	--	6.16	--	0.046	55	<0.10	--	<0.10	<0.10	2
MW1	07/29/98	--	--	--	--	--	--	--	--	--	--	--	--
MW1	08/26/98	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/01/98	192	3.6	--	6.49	--	--	--	--	--	--	--	--
MW1	10/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW1	11/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW1	12/28/98	--	--	--	--	--	--	--	--	--	--	--	--
MW1	01/25/99	389	3.4	--	6.72	--	--	--	--	--	--	--	--
MW1	02/26/99	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/24/99	--	--	--	--	--	--	--	--	--	--	--	--
MW1	05/12/99	--	--	--	--	--	--	--	--	--	--	--	--
MW1	12/15/99	--	3.31	--	6.52	--	--	--	--	--	--	--	--
MW1	03/20/00	--	--	--	--	--	--	--	--	--	--	--	--
MW1	07/20/00	120	7.37	--	6.66	--	<0.01	54	<0.10	--	3.4	3.4	<0.2
MW1	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW1	04/10-11/01	117	NR	--	NR	--	0.045	57	<0.10	--	6.6	6.6	0.15
MW1	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW1	11/20/01	--[C]	0.65	--	6.47	--	1.8	63	<0.10	--	--	--	<0.20
MW1	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW1	05/21/02	120	0.96	--	6.25	--	0.5	58	<0.10	--	5.5	5.5	<0.20
MW1	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/29/03	--	--	--	--	--	--	--	--	--	--	--	--
MW1	12/12/03	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/15/04	--	0.14	--	--	--	--	--	--	--	--	--	--
MW1	06/24/04	--	0.15	--	--	--	--	--	--	--	--	--	--
MW1	09/29/04	--	1.01	--	6.42	--	--	--	--	--	--	--	--
MW1	12/13/04	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/14/05	--	1.96	--	6.04	--	--	--	--	--	--	--	--
MW1	06/15/05	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/26/05	--	1.84	317.4	6.43	--	--	--	--	--	--	--	--
MW1	12/12/05	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/29/06	--	1.57	--	6.73	--	--	--	--	--	--	--	--
MW1	06/19/06	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/29/06	--	0.43	--	6.40	--	--	--	--	--	--	--	--
MW1	12/12/06	--	0.38	--	6.39	--	--	--	--	--	--	--	--
MW1	03/01/07	--	0.86	--	6.39	--	--	--	--	--	--	--	--
MW1	06/12/07	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/25/07	--	16.87	--	6.40	--	--	--	--	--	--	--	--
MW1	12/20/07	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/26/08	--	3.1	71.10	6.11	--	--	--	--	--	--	--	--
MW1	06/03/08	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/25/08	--	2.9	46.00	6.00	--	--	--	--	--	--	--	--
MW1	12/29/08	--	3.4	119.00	6.20	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW2	10/01/98	--	2.7	--	6.47	--	--	--	--	--	--	--	--
MW2	10/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW2	11/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW2	12/28/98	--	--	--	--	--	--	--	--	--	--	--	--
MW2	01/25/99	386	0.3	--	6.69	--	--	--	--	--	--	--	--
MW2	02/26/99	--	--	--	--	--	--	--	--	--	--	--	--
MW2	03/24/99	--	--	--	--	--	--	--	--	--	--	--	--
MW2	05/12/99	--	--	--	--	--	--	--	--	--	--	--	--
MW2	12/15-16/99	*	*	*	*	--	*	*	*	--	*	--	*
MW2	03/20/00	--	--	--	--	--	--	--	--	--	--	--	--
MW2	07/20/00	*	0.88	*	6.37	--	*	*	*	--	*	--	*
MW2	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW2	04/10-11/01	168	NR	--	NR	--	2.5	16	0.14	--	0.19	--	<0.20
MW2	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW2	11/20/01	120	NR	--	6.15	--	2	16	<0.10	--	--	--	<0.20
MW2	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW2	05/21/02	160	0.88	--	5.99	--	1.7	13	<0.10	--	0.54	--	<0.20
MW2	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW2	09/29/03	*	*	*	*	--	*	*	*	--	*	--	*
MW2[e]	12/12/03	*	*	*	*	--	*	*	*	--	*	--	*
MW2[e]	03/15/04	*	*	*	*	--	*	*	*	--	*	--	*
MW2[e]	06/24/04	*	*	*	*	--	*	*	*	--	*	--	*
MW2[e]	09/29/04	*	*	*	*	--	*	*	*	--	*	--	*
MW2[e]	12/13/04	*	0.27	*	6.63	--	*	*	*	--	*	--	*
MW2[j]	03/14/05	*	*	*	*	--	*	*	*	--	*	--	*
MW2	06/15/05	--	3.05	-147.6	--	--	--	--	--	--	--	--	--
MW2	07/18/05	--	--	--	--	--	--	--	--	--	--	--	--
MW2	09/26/05	--	--	--	--	--	--	--	--	--	--	--	--
MW2	12/12/05	--	--	--	--	--	--	--	--	--	--	--	--
MW2	03/29/06	--	7.59	--	6.9	--	--	--	--	--	--	--	--
MW2	06/19/06	--	1.78	--	6.21	--	--	--	--	--	--	--	--
MW2	09/29/06	--	1.71	--	6.66	--	--	--	--	--	--	--	--
MW2	12/12/06	--	1.5	--	6.61	--	--	--	--	--	--	--	--
MW2	03/01/07	--	1.2	--	6.7	--	--	--	--	--	--	--	--
MW2	06/12/07	--	1.12	--	6.7	--	--	--	--	--	--	--	--
MW2	09/25/07	--	2.52	--	6.57	--	--	--	--	--	--	--	--
MW2	12/20/07	--	1.1	--	6.47	--	--	--	--	--	--	--	--
MW2	03/26/08	--	4.13	-5.7	6.18	--	--	--	--	--	--	--	--
MW2	06/03/08	--	0.91	-24.6	6.43	--	--	--	--	--	--	--	--
MW2	09/25/08	--	1.3	-146	6.1	--	--	--	--	--	--	--	--
MW2	12/29/08	--	1.2	-80	6.4	--	--	--	--	--	--	--	--
MW2	03/24/09	--	0.9	-61	6.9	--	--	--	--	--	--	--	--
MW2	06/02/09	--	1.4	-60	5.7	--	--	--	--	--	--	--	--
MW2	09/10/09	--	1.3	-44	7.4	71	--	--	--	<0.1	0.58	1.4	<0.1
MW2	12/04/09	--	1.3	-17	6.8	--	--	--	--	--	--	--	--
MW3	07/27/93	--	--	--	--	--	--	--	--	--	--	--	--
MW3	10/02/97	--	--	--	--	--	--	--	--	--	--	--	--
MW3	06/30/98	300	2	--	6.03	--	9.8	13	1.4	--	<0.10	--	2.4
MW3	07/29/98	--	--	--	--	--	--	--	--	--	--	--	--
MW3	08/26/98	--	--	--	--	--	--	--	--	--	--	--	--
MW3	10/01/98	240	2	--	6.65	--	--	--	--	--	--	--	--
MW3	10/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW3	11/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/28/98	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW3	01/25/99	238	1	--	7.01	--	--	--	--	--	--	--	--
MW3	02/26/99	--	--	--	--	--	--	--	--	--	--	--	--
MW3	03/24/99	--	--	--	--	--	--	--	--	--	--	--	--
MW3	05/12/99	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/15-16/99	*	*	*	*	--	*	*	*	--	*	--	*
MW3	03/20/00	--	--	--	--	--	--	--	--	--	--	--	--
MW3	07/20/00	128	2.05	--	6.73	--	6.6	20	<0.10	--	0.55	--	<0.20
MW3	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW3	04/10-11/01	137	NR	--	NR	--	6	8.2	<0.10	--	0.13	--	<0.20
MW3	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW3	11/20/01	120	2.93	--	6.67	--	12	31	<0.10	--	--	--	<0.20
MW3	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW3	05/21/02	130	1.01	--	6.62	--	9.6	25	<0.10	--	0.77	--	<0.20
MW3	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW3	09/29/03	*	*	*	*	--	*	*	*	--	*	--	*
MW3[e]	12/12/03	*	*	*	*	--	*	*	*	--	*	--	*
MW3[e]	03/15/04	*	*	*	*	--	*	*	*	--	*	--	*
MW3	06/24/04	--	0.07	--	--	--	--	--	--	--	--	--	--
MW3	09/29/04	--	0.80	--	6.42	--	--	--	--	--	--	--	--
MW3	12/13/04	--	0.16	--	6.7	--	--	--	--	--	--	--	--
MW3[j]	03/14/05	--	--	--	--	--	--	--	--	--	--	--	--
MW3	06/15/05	--	1.93	-150.4	--	--	--	--	--	--	--	--	--
MW3	07/18/05	--	--	--	--	--	--	--	--	--	--	--	--
MW3	09/26/05	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/12/05	--	--	--	--	--	--	--	--	--	--	--	--
MW3	03/29/06	--	1.23	--	6.89	--	--	--	--	--	--	--	--
MW3	06/19/06	--	2.30	--	6.40	--	--	--	--	--	--	--	--
MW3	09/29/06	--	1.05	--	6.78	--	--	--	--	--	--	--	--
MW3	12/12/06	--	0.6	--	6.72	--	--	--	--	--	--	--	--
MW3	03/01/07	--	1.11	--	6.76	--	--	--	--	--	--	--	--
MW3	06/12/07	--	0.97	--	6.74	--	--	--	--	--	--	--	--
MW3	09/25/07	--	1.62	--	6.63	--	--	--	--	--	--	--	--
MW3	12/20/07	--	0.9	--	6.62	--	--	--	--	--	--	--	--
MW3	03/26/08	--	2.2	3.1	6.35	--	--	--	--	--	--	--	--
MW3	06/03/08	--	0.88	-29.2	6.64	--	--	--	--	--	--	--	--
MW3	09/25/08	--	1.5	-176	6.00	--	--	--	--	--	--	--	--
MW3	12/29/08	--	1.6	-112	6.50	--	--	--	--	--	--	--	--
MW3	03/24/09	--	0.5	-129	7.00	--	--	--	--	--	--	--	--
MW3	06/02/09	--	1.1	-67	5.80	--	--	--	--	--	--	--	--
MW3	09/10/09	--	1.3	-79	7.70	30	--	--	--	<0.1	0.41	0.56	<0.1
MW3	12/04/09	--	1.2	-14	6.80	--	--	--	--	--	--	--	--
MW4	06/30/98	222	2.6	--	6.18	--	4.3	14	0.8	--	0.8	--	1.5
MW4	07/29/98	--	--	--	--	--	--	--	--	--	--	--	--
MW4	08/26/98	--	--	--	--	--	--	--	--	--	--	--	--
MW4	10/01/98	320	3.4	--	<0.001	--	--	--	--	--	--	--	--
MW4	10/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/28/98	--	--	--	--	--	--	--	--	--	--	--	--
MW4	01/25-26/99	475	6.7	--	7	--	--	--	--	--	--	--	--
MW4	02/26/99	--	--	--	--	--	--	--	--	--	--	--	--
MW4	03/24/99	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/12/99	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/15-16/99	--	1.75	--	7.02	--	--	--	--	--	--	--	--
MW4	03/20/00	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L) CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW4	07/20/00	126	3.88	--	6.67	--	5.3	11	<0.10	--	0.04	--	<0.20
MW4	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW4	04/10-11/01	107	NR	--	NR	--	6.3	10	<0.10	--	<0.05	--	<0.20
MW4	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/20/01	130	0.83	--	6.51	--	10	11	<0.10	--	--	--	<0.20
MW4	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/21/02	150	1.65	--	6.32	--	8.4	9	<0.10	--	0.06	--	<0.20
MW4	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/29/03	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/12/03	--	--	--	--	--	--	--	--	--	--	--	--
MW4	03/15/04	--	0.16	--	--	--	--	--	--	--	--	--	--
MW4	06/24/04	--	0.15	--	--	--	--	--	--	--	--	--	--
MW4	09/29/04	--	0.13	--	6.63	--	--	--	--	--	--	--	--
MW4	12/13/04	--	0.58	--	6.84	--	--	--	--	--	--	--	--
MW4	03/14/05	--	0.28	--	6.34	--	--	--	--	--	--	--	--
MW4	06/15/05	--	0.46	-98.9	--	--	--	--	--	--	--	--	--
MW4	07/18/05	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/26/05	--	2.20	210.4	6.73	--	--	--	--	--	--	--	--
MW4	12/12/05	--	2.05	--	6.62	--	--	--	--	--	--	--	--
MW4	03/29/06	--	1.07	--	6.82	--	--	--	--	--	--	--	--
MW4	06/19/06	--	2.49	--	5.76	--	--	--	--	--	--	--	--
MW4	09/29/06	--	0.25	--	6.66	--	--	--	--	--	--	--	--
MW4	12/12/06	--	0.90	--	6.61	--	--	--	--	--	--	--	--
MW4	03/01/07	--	0.76	--	6.6	--	--	--	--	--	--	--	--
MW4	06/12/07	--	1.06	--	6.9	--	--	--	--	--	--	--	--
MW4	09/25/07	--	6.67	--	6.59	--	--	--	--	--	--	--	--
MW4	12/20/07	--	1.45	--	6.57	--	--	--	--	--	--	--	--
MW4	03/26/08	--	4.56	65	6.35	--	--	--	--	--	--	--	--
MW4	06/03/08	--	1.34	101.3	6.49	--	--	--	--	--	--	--	--
MW4	09/25/08	--	2.2	-134	6.1	--	--	--	--	--	--	--	--
MW4	12/29/08	--	2.9	-7	6.4	--	--	--	--	--	--	--	--
MW4	03/24/09	--	0.9	33	6.8	--	--	--	--	--	--	--	--
MW4	06/02/09	--	1.1	78	5.73	--	--	--	--	--	--	--	--
MW4	09/10/09	--	1.7	183	7	--	--	--	--	--	--	--	--
MW4	12/04/09	--	0.8	26	6.8	--	--	--	--	--	--	--	--
MW5	06/30/98	220	4.3	--	6.1	--	--	--	--	--	--	--	--
MW5	07/29/98	--	--	--	--	--	--	--	--	--	--	--	--
MW5	08/26/98	--	--	--	--	--	--	--	--	--	--	--	--
MW5	10/01/98	256	4.8	--	6.71	--	--	--	--	--	--	--	--
MW5	10/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/30/98	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/28/98	--	--	--	--	--	--	--	--	--	--	--	--
MW5	01/25-26/99	305	9.7	--	7.04	--	--	--	--	--	--	--	--
MW5	02/26/99	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/24/99	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/12/99	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/15-16/99	--	2.72	--	7.19	--	--	--	--	--	--	--	--
MW5	03/20/00	--	--	--	--	--	--	--	--	--	--	--	--
MW5	07/20/00	134	5.58	--	6.35	--	0.017	49	<0.10	--	3.9	--	<0.20
MW5	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW5	04/10-11/01	183	66	--	NR	--	0.042	45	<0.10	--	2.9	--	0.11
MW5	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/20/01	--[c]	66	--	6.01	--	2.5	42	<0.10	--	--	--	<0.20
MW5	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW5	05/21/02	140	66	--	6.3	--	0.22	44	<0.10	--	3	--	<0.20
MW5	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/29/03	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/12/03	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/15/04	--	6.4	--	--	--	--	--	--	--	--	--	--
MW5	06/24/04	--	5.56	--	--	--	--	--	--	--	--	--	--
MW5	09/29/04	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/13/04	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/14/05	--	3.91	--	5.57	--	--	--	--	--	--	--	--
MW5	06/15/05	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/26/05	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/12/05	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/29/06	--	2.3	--	6.3	--	--	--	--	--	--	--	--
MW5	06/19/06	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/29/06	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/12/06	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/01/07	--	4.35	--	6.08	--	--	--	--	--	--	--	--
MW5	06/12/07	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/25/07	--	18.71	--	6.26	--	--	--	--	--	--	--	--
MW5	12/20/07	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/26/08	--	7.93	88	5.86	--	--	--	--	--	--	--	--
MW5	06/03/08	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/25/08	--	2.3	-54	5.5	--	--	--	--	--	--	--	--
MW5	12/29/08	--	4.8	167	6.1	--	--	--	--	--	--	--	--
MW5	03/24/09	--	1.9	27	6.2	--	--	--	--	--	--	--	--
MW5	06/02/09	--	3.5	112	5.2	--	--	--	--	--	--	--	--
MW5	09/10/09	--	3.4	113	6.5	--	--	--	--	--	--	--	--
MW6	07/20/00	122	2.72	--	6.66	--	1.9	53	6	--	0.05	--	<0.20
MW6	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW6	04/10-11/01	142	NR	--	NR	--	2.2	0.69	5.2	--	<0.05	--	<0.20
MW6	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW6	11/20/01	100	2.03	--	6.44	--	5.2	1.1	3.4	--	--	--	<0.20
MW6	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW6	05/21/02	100	0.76	--	6.6	--	3.4	1.4	8.9	--	0.65	--	<0.20
MW6	06/27/03	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/29/03	--	--	--	--	--	--	--	--	--	--	--	--
MW6	12/12/03	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/15/04	--	0.11	--	--	--	--	--	--	--	--	--	--
MW6	06/24/04	--	0.05	--	--	--	--	--	--	--	--	--	--
MW6	09/29/04	--	0.37	--	6.60	--	--	--	--	--	--	--	--
MW6	12/13/04	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/14/05	--	0.08	--	5.65	--	--	--	--	--	--	--	--
MW6	06/15/05	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/26/05	--	--	--	--	--	--	--	--	--	--	--	--
MW6	12/12/05	--	1.52	--	6.61	--	--	--	--	--	--	--	--
MW6	03/29/06	--	6.93	--	6.06	--	--	--	--	--	--	--	--
MW6	06/19/06	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/29/06	--	0.16	--	6.49	--	--	--	--	--	--	--	--
MW6	12/12/06	--	0.5	--	6.68	--	--	--	--	--	--	--	--
MW6	03/01/07	--	0.83	--	6.66	--	--	--	--	--	--	--	--
MW6	06/12/07	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/25/07	--	8.5	--	6.78	--	--	--	--	--	--	--	--
MW6	12/20/07	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/26/08	--	5.57	-35	6.38	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$
MW6	06/03/08	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/25/08	--	1.6	-160	6.2	--	--	--	--	--	--	--	--
MW6	12/29/08	--	1.2	-60	6.5	--	--	--	--	--	--	--	--
MW6	03/24/09	--	0.3	-115	6.8	--	--	--	--	--	--	--	--
MW6	06/02/09	--	1.1	-141	5.9	--	--	--	--	--	--	--	--
MW6	09/10/09	--	0.9	-112	8	--	--	--	--	--	--	--	--
MW6	12/04/09	--	0.7	-54	6.8	--	--	--	--	--	--	--	--
MW7	07/20/00	32.2	7.15	--	7.43	--	0.002	7.5	<0.10	--	2.6	--	0.13
MW7	10/11/00	--	--	--	--	--	--	--	--	--	--	--	--
MW7	04/10-11/01	77.6	NR	--	NR	--	0.048	49	<0.10	--	2.7	--	0.31
MW7	07/10/01	--	--	--	--	--	--	--	--	--	--	--	--
MW7	11/20/01	62	0.96	--	7.11	--	1.8	63	<0.10	--	--	--	<0.20
MW7	02/19/02	--	--	--	--	--	--	--	--	--	--	--	--
MW7	05/21/02	68	1.03	--	7.57	--	0.35	51	<0.10	--	2.8	--	0.11
MW7	06/27/03	--	--	--	--	--	--	--	--	--	--	--	
MW7	09/29/03	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/03	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/15/04	--	0.54	--	--	--	--	--	--	--	--	--	--
MW7	06/24/04	--	0.20	--	--	--	--	--	--	--	--	--	--
MW7	09/29/04	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/13/04	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/14/05	--	0.47	--	6.15	--	--	--	--	--	--	--	--
MW7	06/15/05	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/26/05	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/05	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/29/06	--	0.72	--	5.81	--	--	--	--	--	--	--	--
MW7	06/19/06	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/29/06	--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/12/06	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/01/07	--	0.92	--	6.84	--	--	--	--	--	--	--	--
MW7	06/12/07	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/25/07	--	6.11	--	6.78	--	--	--	--	--	--	--	--
MW7	12/20/07	--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/26/08	--	3.3	23	6.46	--	--	--	--	--	--	--	--
MW7	06/03/08	--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/25/08	--	1.5	-186	6.3	--	--	--	--	--	--	--	--
MW7	12/29/08	--	6.4	-50	6.9	--	--	--	--	--	--	--	--
MW7	03/24/09	--	1.7	-16	7.1	--	--	--	--	--	--	--	--
MW7	06/02/09	--	2.1	3	6.1	--	--	--	--	--	--	--	--
MW7	09/10/09	--	2.3	58	7.4	--	--	--	--	--	--	--	--
MW8	12/29/08	--	1.5	-3	6.6	--	--	--	--	--	--	--	--
MW8	03/24/09	--	1.8	-2	7.2	--	--	--	--	--	--	--	--
MW8	06/02/09	--	1.4	80	5.5	--	--	--	--	--	--	--	--
MW8	09/10/09	--	1.1	81	7.2	--	--	--	--	--	--	--	--
MW9A	09/10/09	--	1.4	79	8.4	250	--	--	--	<0.1	<0.1	1.8	0.22
MW9B	09/10/09	--	2.4	55	7.4	12	--	--	--	<0.1	1.2	<0.5	<0.1
MW9B	12/04/09	--	2.1	-9	6.9	--	--	--	--	--	--	--	--
O1	09/10/09	--	0.4	-53	7.6	32	--	--	--	<0.1	<0.1	1.3	<0.1
O1	12/04/09	--	0.5	-12	6.8	--	--	--	--	--	--	--	--

TABLE 2b NATURAL ATTENUATION PARAMETERS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Concentration (mg/L)											
		CO_2 (lab)	DO (field)	ORP (mv) (field)	pH (field)	COD	Mn	SO_4	$N\text{-}NH_3$	$NO_2\text{-}N$	$N\text{-}NO_3$	N	$o\text{-}PO_4$

CO_2	Carbon dioxide.
COD	Chemical Oxygen Demand
DO	Dissolved oxygen.
ORP	Oxygen reduction potential
Fe(II)	Ferrous iron.
Mn	Manganese.
SO_4	Sulfate.
$N\text{-}NH_3$	Ammonia.
$N\text{-}NO_3$	Nitrate.
N	Total Kjeldahl Nitrogen
$o\text{-}PO_4$	Ortho-Phosphate.
mg/L	Milligrams per liter.
*	SPH present; not sampled.
--	Not analyzed or not sampled.

TABLE 3 HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

			Concentrations (µg/L)							
Boring ID	Date	Depth (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TPH-g	TPH-d	TPH-mo
HP1	12/18/2003	26-30	<5.0	<5.0	<5.0	**11**	**480**	**410**	**180**	<500
HP3	12/18/2003	32-36	<0.50	<0.50	<0.50	<1.0	**0.55**	<50	**75**	<500
SB3	12/26/2007	24	0.75	28	35	180	0.59	1800	<1000	<100
SB3	12/26/2007	40	<0.50	1.1	5.3	33	1	240	<400	<100
SB4	12/26/2007	23	160	120	200	240	1.8	3500	<1500	<100
SB4	12/26/2007	40	250	1400	280	2000	3.2	9900	<1500	<100
SB5	12/26/2007	24	**660**	**11000**	**4200**	**20000**	34	**110000**	<100000	310
SB5	12/26/2007	40	74	1000	380	2400	31	13000	<3000	<100
SB6	12/26/2007	25	<0.5	6.6	3.6	27	1.2	210	<100	<100
SB6	12/26/2007	40	85	1500	620	6900	15	35000	<18000	<100
SB7	12/26/2007	40	120	1100	470	2900	7.9	20000	<6000	<100
SB8	12/26/2007	40	320	1300	920	3100	100	17000	<3000	<100
SB9	12/26/2007	34	<0.5	<0.5	<0.5	<0.5	92	<50	69	<100
SB10	12/26/2007	21.3	<0.5	<0.5	<0.5	<0.5	30	<50	2200	5000
SB11	12/26/2007	17	<0.5	<0.5	<0.5	<0.5	<50	<50	200	220
SB12	12/26/2007	20	<0.5	<0.5	<0.5	<0.5	43	67	950	1200
SB13	12/26/2007	26	<0.5	<0.5	<0.5	<0.5	**160**	<50	**3800**	**6600**

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-mo Total Petroleum Hydrocarbons as motor oil.

< less than the laboratory reporting limits.

660 Bold values reflect maximum detected concentrations

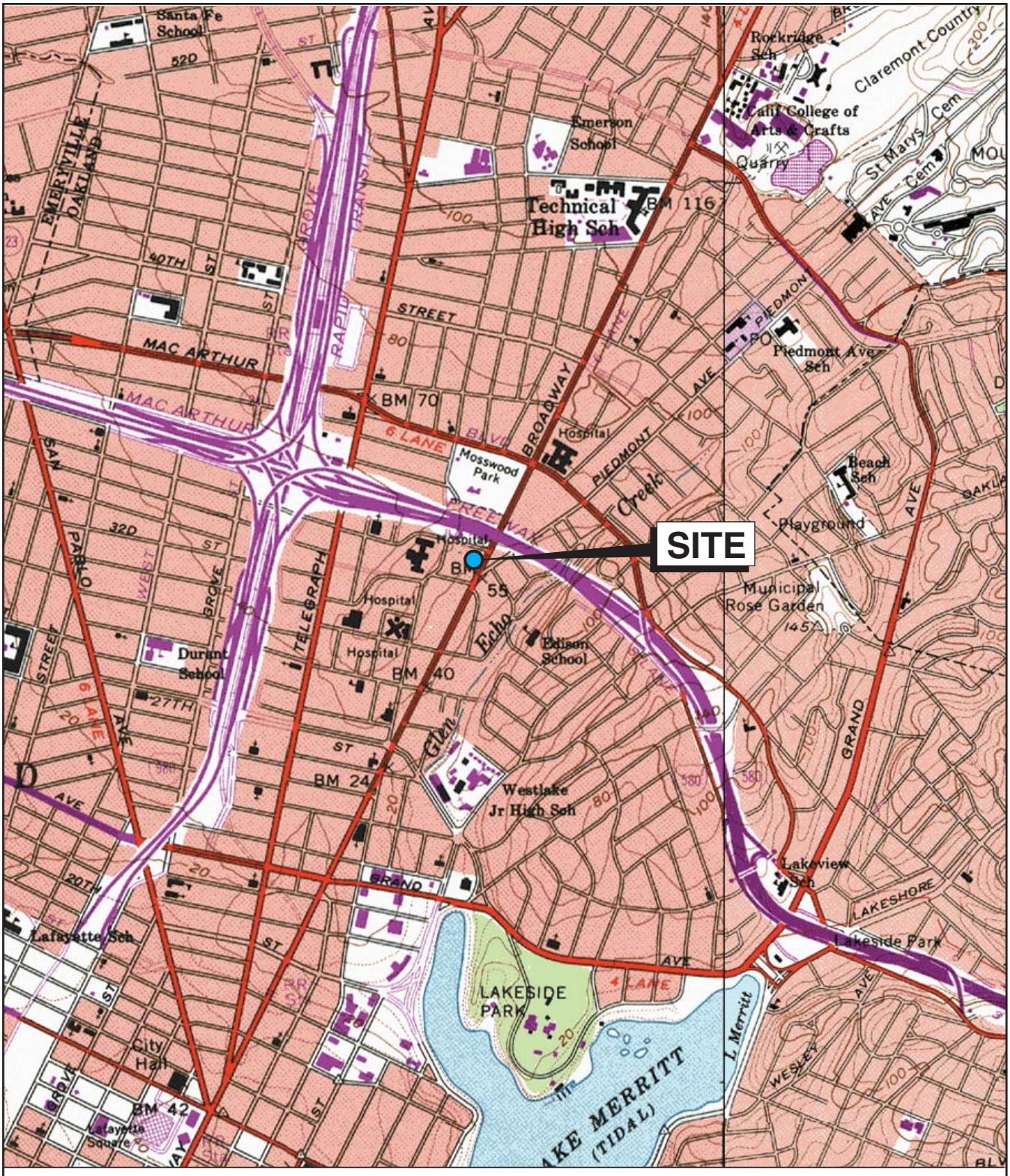
TABLE 4 GROUNDWATER MONITORING SCHEDULE
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	TEPH
MW1	Q	S	S	S
MW2	Q	Q	Q	Q
MW3	Q	Q	Q	Q
MW4	Q	Q	Q	Q
MW5	Q	S	S	S
MW6	Q	S	S	S
MW7	Q	A	A	A
MW8	Q	A	A	A
MW9A	Q	Q	Q	Q
MW9B	Q	Q	Q	Q
O1	Q	Q	Q	Q

Q = Quarterly.
S = Semiannual.
A = Annual.
NA = not analyzed, pending approval

BTEX = Benzene, toluene, ethylbenzene, total xylenes.
MTBE = Methyl tertiary butyl ether.
TPH-g = Total Petroleum Hydrocarbons as gasoline.
TEPH = Total Extractable Petroleum Hydrocarbons, includes TPH-diesel and TPH-motor oil.

FIGURES



Base map: Maptech Inc., 2001

N

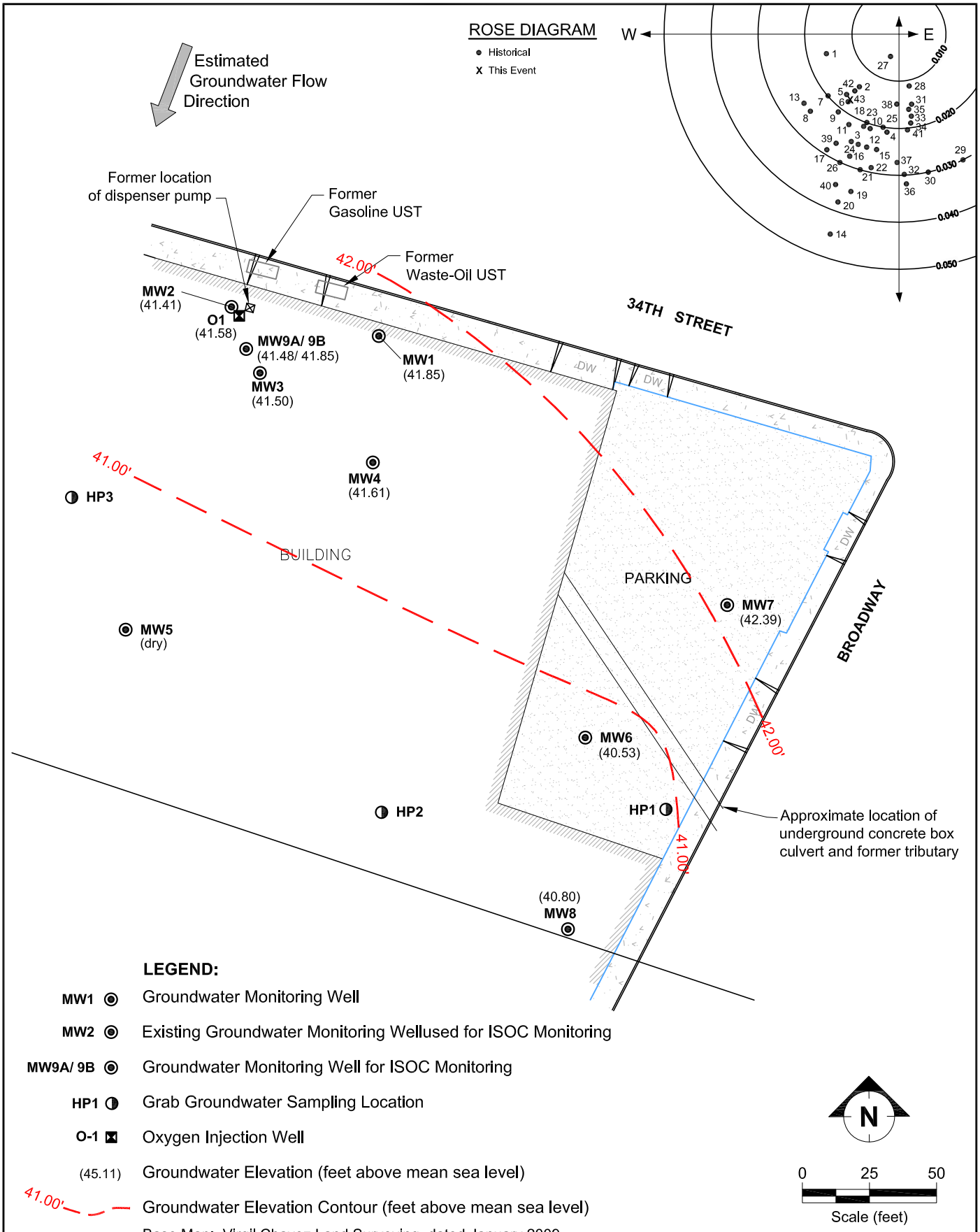
0 2,000

Scale (feet)

LRM consulting inc.

SITE LOCATION MAP
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA

FIGURE: **1**



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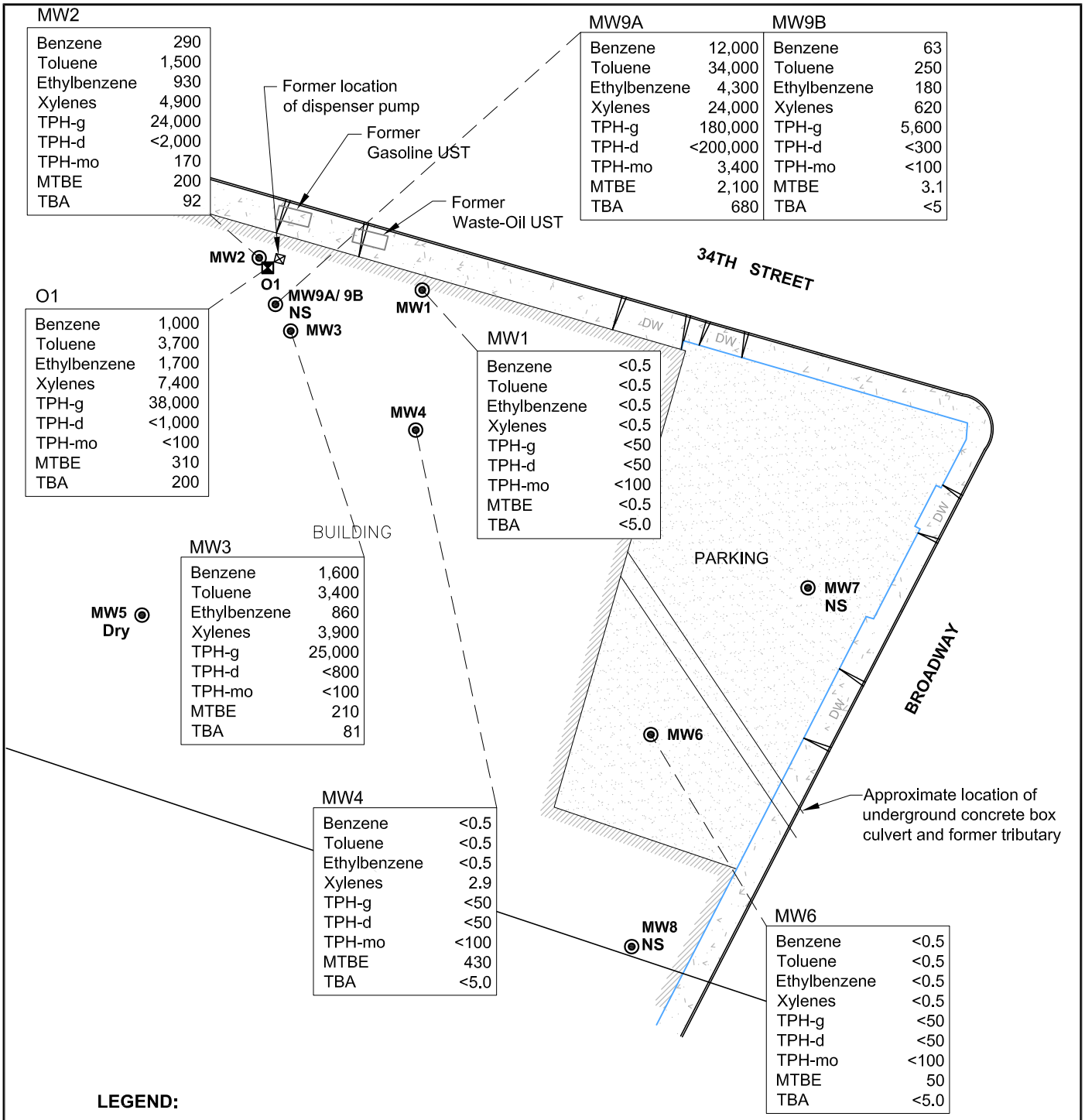
GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
4TH QUARTER 2009 MONITORING EVENT
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
DECEMBER 2009

FIGURE: **2**



LEGEND:

MW1 ◉	Groundwater monitoring well
TPH-g	Total Petroleum Hydrocarbons as gasoline
TPH-d	Total Petroleum Hydrocarbons as diesel
TPH-mo	Total Petroleum Hydrocarbons as motor oil
MTBE	Methyl Tertiary Butyl Ether
TBA	Tert-Butanol
NS	Not scheduled to sample this quarter

All concentrations are reported in micrograms per liter (ug/L)

N

0 25 50

Scale (feet)

LRM consulting inc.

GROUNDWATER ANALYTICAL DATA
4TH QUARTER 2009 MONITORING EVENT
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
DECEMBER 2009

FIGURE: **3**

Appendix A

Protocols for Groundwater Monitoring

APPENDIX A

PROTOCOLS FOR GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B

Field Documents

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 55	#1	12/4	0645	pH 4, 7, 10	4.0, 7.0 10.0	Y	10	BM	
↓	↓	↓	↓	1413	1413	Y	10	BM	
				100%	100%	Y	10	BM	
				ORP 250	250	Y	10	BM	

Notes/comments:

Well Maintenance Inspection Form

Client: LRM Site: Stough Chevy Date: 12/4/09

Job #: M1-091204 Technician: BM Page 1 of 1

Inspection Point	Well Inspected - No Corrective Action Required	Entry Indicates Deficiency: 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)
MW1	X														
MW2	X														
MW3	X														
MW4	X														
MW5	X														
MW6	X														
MW7	X														
MW8	X														
MW9A				X											
MW9B				X											
O1				X											

Notes:

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

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

Water Level Measurements

Job Number: MI-091204 Date: 12/4/09 Client: LRM

Site: Former Straugh Chevy

	Well I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)		
	MW-1	718	2			22.86		30.59	TOC		
	MW2	728	2			24.30		31.74			
	MW3	724	2			24.20		31.88			
	MW4	721	2			22.76		27.54			
G/C	MW5	705	2			DRY		26.40			
	MW6	711	2			19.07		26.55			
G/C	MW7	709	2			17.10		34.56			
G/C	MW8	1030	1			16.27		26.65			
	MW9A	741	2			24.42		25.20			
	MW9B	738	2			24.00		34.58			
	OI	734	2			24.33		35.17			

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-1	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 22.80 **Total Depth:** 30.59
Purge equip: ES - diam: Bladder Peri (Waterra) Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.2 X 3 = 3.5 (Total Purge) 80%= 24.41

Time	Temp (°C/ °F)	pH	Cond (mS (µS))	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
745	15.6	6.0	1237	45	—	~~1.2~~	1.4	3	—	
748	16.4	6.6	1203	41	—	1.2	1.5	6	—	
750	16.5	6.6	1231	40	—		1.5	10	—	
752	16.5	6.6	1254	37	—		1.5	13	—	

Did well dewater? YES (NO)	Total volume removed: 3.5 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:		
Sample date: 12/4/09	Sample time: 755	DTW at sample: 23.11
Sample ID: ~~MW-1~~ MW1	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-2	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.30 **Total Depth:** 31.74
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
(disp bailer) teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.2 X 3 = 3.5 (Total Purge) 80%= 25.79

Time	Temp (°C) °F	pH	Cond (mS / S)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
935	15.7	6.9	744	43	—	—	1.3	-16	—	
940	15.6	6.8	773	89	—	1.2	1.8	-12	~	
944	15.9	6.8	789	83	—	2.4	1.4	-15	~	
947	15.9	6.8	791	81	—	3.5	1.3	-17	~	

Did well dewater? YES (NO)	Total volume removed: 3.5 (gal / L)
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:	
Sample date: 12/4/09	Sample time: 950 DTW at sample: 24.41
Sample ID: MW2	Lab: Kiff Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: Post purge DO:
$Fe2^+$:	Pre-purge ORP: Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-3	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.20 **Total Depth:** 31.88
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
(disp bailer) teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.2 X 3 = 3.5 (Total Purge) 80%= 25.74

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
816	15.4	6.6	845	71000	~	—	1.3	-3	—	
820	16.0	6.8	852	71000	—	1.2	1.1	-13	—	
823	16.0	6.8	833	71000	—	2.4	1.1	-14	~	
825	16.0	6.8	837	71000	~	3.5	1.2	-14	~	

Did well dewater? YES (NO)	Total volume removed: 3.5 (gal / L)	
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/4/09	Sample time: 830	DTW at sample: 24.25
Sample ID: MW3	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^{+}$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-4	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 22.76 **Total Depth:** 27.54
Purge equip: ES - diam: Bladder Peri (Waterra) Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 0.8 X 3 = 2.4 (Total Purge) 80%= 23.72

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
757	16.6	6.5	710	>1000	—	—	1.6	22	—	
800	16.8	6.7	701	>1000	—	0.8	0.9	23	—	
802	16.6	6.8	715	>1000	—	1.6	0.9	25	—	
804	16.6	6.8	721	>1000	—	2.4	0.8	26	—	

Did well dewater? YES (NO)	Total volume removed: 2.4 (gal / L)	
Sample method: Disp Bailer (Ded. Tubing) New Tubing Ext. Port Other:		
Sample date: 12/4/09	Sample time: 805	DTW at sample: 22.91
Sample ID: MW4	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^{+}$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-6	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 19.07 **Total Depth:** 26.55
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.2 X 3 = 3.5 (Total Purge) 80%= 20.57

Time	Temp (°C) °F)	pH	Cond (mS /µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
843	16.2	6.1	638	89	—	—	0.7	-35	—	
845	16.5	6.8	740	88	—	1.2	0.7	-53	—	
848	16.5	6.8	735	82	—	2.4	0.7	-53	—	
851	16.5	6.8	737	79	—	3.5	0.7	-54	—	

Did well dewater? YES (NO)	Total volume removed: 3.5 (gal / L)
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:	

Sample date: 12/4/09	Sample time: 855	DTW at sample: 19.15
Sample ID: MW6	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-9A	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.42 **Total Depth:** 25.20
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 0.1 X 3 = 0.3 (Total Purge) 80%= 24.58

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
Insufficient water - No sample										
* Tried unsuccessfully to bail well - could not get										
water into bailer.										

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/4/09	Sample time:	DTW at sample:
Sample ID: MW-9A	Lab: Kiff	Number of bottles:
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: MW-9B	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.00 **Total Depth:** 34.58
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
(disp bailer) teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.7 X 3 = 5 (Total Purge) 80%= 26.12

Time	Temp (°C / F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
957	15.0	7.1	1138	>1000	—	—	4.4	9	—	
1000	16.3	6.9	912	>1000	—	1.7	2.4	-1	—	
1003	16.3	6.9	920	>1000	—	3.4	2.3	-4	—	
1006	16.4	6.9	927	>1000	—	5	2.1	-9	—	

Did well dewater? YES (NO)	Total volume removed: 5 (gal / L)	
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/4/09	Sample time: 1010	DTW at sample: 24.21
Sample ID: MW9B	Lab: Kiff	Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^{+}$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-091204	**Sampler:** B Myers	**Client:** LRM
Well ID: 01	**Date:** 12/4/09	**Site:** Former Strough Chevy, Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.33 **Total Depth:** 35.17
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
(disp bailer) teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: (3-5 Case Volume) Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius^2 X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 1.7 X 3 = 5 (Total Purge) 80%= 26.50

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP	DTW	Notes
910	14.7	6.3	764	>1000	—	—	0.8	-32	—	
915	15.9	6.7	762	>1000	—	1.7	0.7	-29	—	
919	15.9	6.8	764	>1000	—	3.4	0.6	-15	—	
922	16.0	6.8	766	>1000	—	5	0.5	-12	—	

Did well dewater? YES (NO)	Total volume removed: 5 (gal / L)
Sample method: (Disp Bailer) Ded. Tubing New Tubing Ext. Port Other:	
Sample date: 12/4/09	Sample time: 925 DTW at sample: 24.35
Sample ID: 01	Lab: Kiff Number of bottles: 5
Analysis: TPH-G, BTEX, MTBE, TBA, TEPH-D, TEPH-MO	
Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: Post purge DO:
$Fe2^+$:	Pre-purge ORP: Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

Well Maintenance Inspection Form

Client: UKH Site: Strough Oakland Date: 12/28/09

Job #: MI-091228 Technician: BM Page of

Inspection Point	Well Inspected - No Corrective Action Required	Entry Indicates Deficiency												Well Not Inspected (explain in notes)	Notes (Note any repairs made while on site)
		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)		
MW9A				X											

Notes:

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

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

Water Level Measurements

Job Number: H1-09122E Date: 12/28/09 Client: URM

Site: Stroup Oakland

Well I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)		
MW9A	740	2			24.62		25.20	TOC		

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 55C	#1	12/22/09	745	pH 4, 7, 10	4.0, 7.0 10.0	Y	10	BM	
				cond 1413	1413	Y	10	BM	
				DO. 100%	100%	Y	10	BM	
				ORP 250	250	Y	10	BM	

Notes/comments:

Purging And Sampling Data Sheet

Job#: MI-091220	**Sampler:** BM	**Client:** LRM
Well ID: MW9A	**Date:** 12/28/09	**Site:** Straugh Oakland
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 24.62 **Total Depth:** 25.20
Purge equip: ES - diam: Bladder (Peri) Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 0.1 X 3 = 0.3 (Total Purge) 80%= 24.74

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)		Notes
Initial	Dropped tubing & began filling pre purge sample due									
to low water volume. Filled 2 NCI VOAs then well										
dewatered, waited a few minutes then got 3rd VOA										
filled, (It was 1/2 full muddy water & 1/2 product)										
Strong odor & could see separation between water										
& SPH. Will cont. to try & fill remaining VOAs.										
No parameters taken due to SPH & presence										
Began purge/sample @ 0800 by 0830 still only had 2 VOAs, well dry										
sounder didn't read. Left site will return later in										
day to try & finish sample collection.										
1330 - returned to well - has only recovered 0.05' - could not collect any more water.										

Did well dewater? (YES) NO	Total volume removed: —— (gal / L)	
Sample method: Disp Bailer Ded. Tubing (New Tubing) Ext. Port Other:		
Sample date: 12/28/09	Sample time: 0800	DTW at sample: ——
Sample ID: MW-9A	Lab: Kiff	Number of bottles: 3
Analysis:		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

0.05' in well at return had SPH (Interface probe used) ≈ 0.03' measured.

Appendix C

Well Survey Report

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California, 94590
(707) 553-2476 • Fax (707) 553-8698

November 18, 2009
Project No.: 2996-00

Jing Heisler
LRM Consulting, Inc.
1534 Plaza Lane, # 145
Burlingame, CA 94010

Subject: Monitoring Well Survey
327 34th Street
Oakland, CA

Dear Jing:

This is to confirm that we have proceeded at your request to survey the new monitoring wells located at the above referenced location. The survey was completed on November 12, 2009. The benchmark for this survey was a cut "X" in the top of curb near the southwest return of the northwest corner of 34th and Broadway. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Benchmark Elevation = 63.13 feet (NAVD 88).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				66.25	RIM MW-9A
37.8217909	-122.2613467	2126481.95	6052950.43	65.90	TOC MW-9A
				66.25	RIM MW-9B
37.8217925	-122.2613517	2126482.56	6052949.00	65.85	TOC MW-9B
				66.32	RIM O-1
37.8218227	-122.2613532	2126493.56	6052948.78	65.91	TOC O-1

Sincerely,

Virgil D. Chavez, PLS 6323

Appendix D

Laboratory Analytical Reports and Chain-of-Custody Documentation

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Mehrdad Javaherian
LRM Consulting, Inc.
1534 Plaza Lane, #145
Burlingame, CA 94010

Subject : 7 Water Samples
Project Name : Former Strough Chevy - Oakland
Project Number : M1-091204

Dear Mr. Javaherian,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Subject : 7 Water Samples
Project Name : Former Strough Chevy - Oakland
Project Number : M1-091204

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with samples MW2, MW9B, and 01 for the analytes Methyl-t-butyl ether and Toluene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with QC batch V-120709-W-11 for samples MW-2, MW9B, and 01 for the analyte Ethyl-tert-butyl ether were outside of control limits, indicating a possible bias for this analyte. The only reported analyte for samples MW-2, MW9B, and 01 that is associated with the Ethyl-tert-butyl ether spike is 'TPH as Gasoline'. Ethyl-tert-butyl ether was not reported for any of the samples.

Matrix Spike/Matrix Spike Duplicate results associated with samples MW2, MW9B, and 01 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW1** Matrix : Water Lab Number : 71097-01
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/07/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	12/07/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	91.2		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW2** Matrix : Water Lab Number : 71097-02
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**290**	6.0	ug/L	EPA 8260B	12/08/2009
Toluene	**1500**	6.0	ug/L	EPA 8260B	12/08/2009
Ethylbenzene	**930**	6.0	ug/L	EPA 8260B	12/08/2009
Total Xylenes	**4900**	6.0	ug/L	EPA 8260B	12/08/2009
Methyl-t-butyl ether (MTBE)	**200**	6.0	ug/L	EPA 8260B	12/08/2009
Tert-Butanol	**92**	30	ug/L	EPA 8260B	12/08/2009
TPH as Gasoline	**24000**	600	ug/L	EPA 8260B	12/08/2009
1,2-Dichloroethane-d4 (Surr)	96.1		% Recovery	EPA 8260B	12/08/2009
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	12/08/2009
TPH as Diesel (w/ Silica Gel)	**< 2000**	2000	ug/L	M EPA 8015	12/07/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**170**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW3** Matrix : Water Lab Number : 71097-03
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1600**	15	ug/L	EPA 8260B	12/07/2009
Toluene	**3400**	15	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	**860**	15	ug/L	EPA 8260B	12/07/2009
Total Xylenes	**3900**	15	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	**210**	15	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	**81**	70	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	**25000**	1500	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/07/2009
TPH as Diesel (w/ Silica Gel)	**< 800**	800	ug/L	M EPA 8015	12/07/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	89.2		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW4** Matrix : Water Lab Number : 71097-04
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	**2.9**	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	**430**	0.90	ug/L	EPA 8260B	12/08/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/07/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	12/07/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	95.0		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW6** Matrix : Water Lab Number : 71097-05
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	**50**	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/07/2009
TPH as Diesel (w/ Silica Gel)	**< 50**	50	ug/L	M EPA 8015	12/07/2009
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	102		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **MW9B** Matrix : Water Lab Number : 71097-06
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**63**	1.0	ug/L	EPA 8260B	12/09/2009
Toluene	**250**	1.0	ug/L	EPA 8260B	12/09/2009
Ethylbenzene	**180**	1.0	ug/L	EPA 8260B	12/09/2009
Total Xylenes	**620**	1.0	ug/L	EPA 8260B	12/09/2009
Methyl-t-butyl ether (MTBE)	**3.1**	1.0	ug/L	EPA 8260B	12/09/2009
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	12/09/2009
TPH as Gasoline	**5600**	100	ug/L	EPA 8260B	12/09/2009
1,2-Dichloroethane-d4 (Surr)	93.5		% Recovery	EPA 8260B	12/09/2009
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	12/09/2009
TPH as Diesel (w/ Silica Gel)	**< 300**	300	ug/L	M EPA 8015	12/07/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	94.2		% Recovery	M EPA 8015	12/07/2009

KIFF Analytical LLC

Report Number : 71097
Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091204**

Sample : **01** Matrix : Water Lab Number : 71097-07
Sample Date :12/04/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1000**	15	ug/L	EPA 8260B	12/08/2009
Toluene	**3700**	15	ug/L	EPA 8260B	12/08/2009
Ethylbenzene	**1700**	15	ug/L	EPA 8260B	12/08/2009
Total Xylenes	**7400**	15	ug/L	EPA 8260B	12/08/2009
Methyl-t-butyl ether (MTBE)	**310**	15	ug/L	EPA 8260B	12/08/2009
Tert-Butanol	**200**	70	ug/L	EPA 8260B	12/08/2009
TPH as Gasoline	**38000**	1500	ug/L	EPA 8260B	12/08/2009
1,2-Dichloroethane-d4 (Surr)	98.0		% Recovery	EPA 8260B	12/08/2009
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	12/08/2009
TPH as Diesel (w/ Silica Gel)	**< 1000**	1000	ug/L	M EPA 8015	12/07/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**< 100**	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	88.4		% Recovery	M EPA 8015	12/07/2009

Report Number : 71097

Date : 12/10/2009

QC Report : Method Blank Data

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/07/2009
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/07/2009
Octacosane (Silica Gel Surr)	97.9		%	M EPA 8015	12/07/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	99.2		%	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	100		%	EPA 8260B	12/07/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	97.6		%	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	99.8		%	EPA 8260B	12/07/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	102		%	EPA 8260B	12/07/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/07/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/07/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/07/2009
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	12/07/2009
Toluene - d8 (Surr)	101		%	EPA 8260B	12/07/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/08/2009

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 71097

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)														
	BLANK	<50	1000	1000	875	826	ug/L	M EPA 8015	12/7/09	87.5	82.6	5.76	70-130	25
Benzene														
	71108-02	<0.50	40.5	40.0	36.8	36.6	ug/L	EPA 8260B	12/7/09	90.9	91.5	0.599	80-120	25
Ethyl-tert-butyl ether														
	71108-02	<0.50	40.2	39.7	33.9	35.0	ug/L	EPA 8260B	12/7/09	84.3	88.0	4.37	76.5-120	25
Ethylbenzene														
	71108-02	<0.50	40.2	39.8	39.1	38.5	ug/L	EPA 8260B	12/7/09	97.1	96.7	0.359	80-120	25
Methyl-t-butyl ether														
	71108-02	15	40.6	40.1	45.4	48.0	ug/L	EPA 8260B	12/7/09	75.7	83.2	9.34	69.7-121	25
P + M Xylene														
	71108-02	<0.50	39.2	38.7	39.0	38.4	ug/L	EPA 8260B	12/7/09	99.6	99.3	0.336	76.8-120	25
Tert-Butanol														
	71108-02	8.8	201	199	193	190	ug/L	EPA 8260B	12/7/09	91.7	91.2	0.513	80-120	25
Toluene														
	71108-02	<0.50	40.2	39.8	38.0	37.2	ug/L	EPA 8260B	12/7/09	94.3	93.5	0.916	80-120	25
Benzene														
	71095-10	32	40.2	40.4	62.0	61.0	ug/L	EPA 8260B	12/8/09	75.4	72.4	4.14	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Ethyl-tert-butyl ether														
	71095-10	<0.50	39.9	40.1	29.0	28.6	ug/L	EPA 8260B	12/8/09	72.8	71.3	2.15	76.5-120	25
Ethylbenzene														
	71095-10	130	39.9	40.2	166	160	ug/L	EPA 8260B	12/8/09	95.3	81.4	15.7	80-120	25
Methyl-t-butyl ether														
	71095-10	<0.50	40.2	40.5	27.4	27.6	ug/L	EPA 8260B	12/8/09	68.2	68.2	0.0381	69.7-121	25
P + M Xylene														
	71095-10	4.3	38.8	39.1	42.6	42.1	ug/L	EPA 8260B	12/8/09	98.7	96.6	2.08	76.8-120	25
Tert-Butanol														
	71095-10	<5.0	200	201	185	190	ug/L	EPA 8260B	12/8/09	92.4	94.8	2.47	80-120	25
Toluene														
	71095-10	2.0	39.9	40.2	33.2	33.1	ug/L	EPA 8260B	12/8/09	78.0	77.3	0.836	80-120	25
Benzene														
	71108-04	<0.50	40.6	40.6	41.1	37.4	ug/L	EPA 8260B	12/7/09	101	92.2	9.45	80-120	25
Ethyl-tert-butyl ether														
	71108-04	<0.50	40.3	40.3	41.6	38.2	ug/L	EPA 8260B	12/7/09	103	94.8	8.40	76.5-120	25
Ethylbenzene														
	71108-04	<0.50	40.3	40.3	43.5	39.8	ug/L	EPA 8260B	12/7/09	108	98.7	8.88	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
	71108-04	0.61	40.6	40.6	42.0	39.1	ug/L	EPA 8260B	12/7/09	102	94.8	7.23	69.7-121	25
P + M Xylene														
	71108-04	<0.50	39.2	39.2	43.4	39.8	ug/L	EPA 8260B	12/7/09	110	102	8.53	76.8-120	25
Tert-Butanol														
	71108-04	<5.0	202	202	199	182	ug/L	EPA 8260B	12/7/09	98.6	90.4	8.64	80-120	25
Toluene														
	71108-04	<0.50	40.3	40.3	42.5	38.8	ug/L	EPA 8260B	12/7/09	105	96.1	9.10	80-120	25
Benzene														
	71097-01	<0.50	40.6	40.6	41.7	41.1	ug/L	EPA 8260B	12/7/09	103	101	1.50	80-120	25
Ethyl-tert-butyl ether														
	71097-01	<0.50	40.3	40.3	41.4	41.4	ug/L	EPA 8260B	12/7/09	103	103	0.260	76.5-120	25
Ethylbenzene														
	71097-01	<0.50	40.3	40.3	41.9	42.2	ug/L	EPA 8260B	12/7/09	104	104	0.618	80-120	25
Methyl-t-butyl ether														
	71097-01	<0.50	40.6	40.6	41.8	41.3	ug/L	EPA 8260B	12/7/09	103	102	1.18	69.7-121	25
P + M Xylene														
	71097-01	<0.50	39.2	39.2	41.6	41.8	ug/L	EPA 8260B	12/7/09	106	106	0.562	76.8-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 71097

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/10/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol														
	71097-01	<5.0	202	202	210	208	ug/L	EPA 8260B	12/7/09	104	103	1.12	80-120	25
Toluene														
	71097-01	<0.50	40.3	40.3	41.8	41.3	ug/L	EPA 8260B	12/7/09	104	102	1.28	80-120	25
Methyl-t-butyl ether														
	71114-09	0.54	40.6	40.6	39.2	38.6	ug/L	EPA 8260B	12/8/09	95.2	93.8	1.45	69.7-121	25
Toluene														
	71114-09	1.8	40.3	40.3	41.6	40.0	ug/L	EPA 8260B	12/8/09	98.6	94.9	3.91	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.6	ug/L	EPA 8260B	12/7/09	90.8	80-120
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	12/7/09	88.1	76.5-120
Ethylbenzene	40.3	ug/L	EPA 8260B	12/7/09	96.1	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	12/7/09	78.8	69.7-121
P + M Xylene	39.2	ug/L	EPA 8260B	12/7/09	98.5	76.8-120
Tert-Butanol	202	ug/L	EPA 8260B	12/7/09	89.7	80-120
Toluene	40.3	ug/L	EPA 8260B	12/7/09	93.4	80-120
Benzene	40.6	ug/L	EPA 8260B	12/7/09	91.7	80-120
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	12/7/09	86.2	76.5-120
Ethylbenzene	40.3	ug/L	EPA 8260B	12/7/09	99.0	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	12/7/09	74.6	69.7-121
P + M Xylene	39.2	ug/L	EPA 8260B	12/7/09	101	76.8-120
Tert-Butanol	202	ug/L	EPA 8260B	12/7/09	94.0	80-120
Toluene	40.3	ug/L	EPA 8260B	12/7/09	94.7	80-120
Benzene	39.8	ug/L	EPA 8260B	12/7/09	97.4	80-120
Ethylbenzene	39.8	ug/L	EPA 8260B	12/7/09	101	80-120
Methyl-t-butyl ether	40.4	ug/L	EPA 8260B	12/7/09	94.0	69.7-121
P + M Xylene	79.6	ug/L	EPA 8260B	12/7/09	101	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	12/7/09	98.0	80-120
Tert-Butanol	201	ug/L	EPA 8260B	12/7/09	95.6	80-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091204**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	39.8	ug/L	EPA 8260B	12/7/09	98.4	80-120
Benzene	40.3	ug/L	EPA 8260B	12/7/09	101	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	12/7/09	103	80-120
Methyl-t-butyl ether	40.4	ug/L	EPA 8260B	12/7/09	98.5	69.7-121
P + M Xylene	39.0	ug/L	EPA 8260B	12/7/09	104	76.8-120
TPH as Gasoline	509	ug/L	EPA 8260B	12/7/09	103	80-120
Tert-Butanol	200	ug/L	EPA 8260B	12/7/09	102	80-120
Toluene	40.0	ug/L	EPA 8260B	12/7/09	101	80-120
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	12/8/09	90.8	69.7-121

KIFF ANALYTICAL, LLC

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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

71097

Page 1 of 1

Project Name: Former Strough Chevy - Oakland

Job Number: 11-091204

TAT: (STANDARD) 5 DAY 2 DAY 24 HOUR OTHER:

Lab: **Kiff**	Site Address: 327 34th St, Oakland	Confluence PM: Jason Brown
Address: 2795 2nd St, Suite 300, Davis CA 95616	California Global ID No.: T0600101644	Phone / Fax: 916-760-7641 / 916-473-8617
Contact: Angelique Showman	Include EDF w/ Report: (Yes) No	Confluence Log Code: **CESC**
Phone/ Fax: 530-297-4800 x.127	Consultant / PM: LRM / Merhdad Javaherian	Report to: Merhdad Javaherian
	Phone / Fax: (415) 706-8935	Invoice to: Merhdad Javaherian

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Requested Analysis: TEPH Diesel & Motor Oil* (8015)	Requested Analysis: TPH-G, BTEX (8260B)	Requested Analysis: MTBE, TBA (8260)	Requested Analysis: BOD (5210B)	Requested Analysis: COD (410.1)	Requested Analysis: Nitrite/ Nitrate (354.1)	Requested Analysis: TKN (4500)	Requested Analysis: Ortho-phosphate (365.3)	Requested Analysis: Microbial population heterotrophic & specific degrader plate count (9215-A)	Notes and Comments
	~~MW1~~ MW1	735	12/4		X			5				5		X	X	X							01
	~~MW2~~ MW2	950	"		X			1				"		X	X	X							02
	MW3	832	"		X			"				"		X	X	X							03
	MW4	805	"		X			"				"		X	X	X							04
	MW6	855	"		X			"				"		X	X	X							05
	~~MW9A~~		"		X			"				"		X	X	X	~~BTEX~~ 12/4						
	MW9B	1010	"		X			"				"		X	X	X							06
	01	925	"		X			1				1		X	X	X							07

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: B. Myers						
Sampler's Company: Confluence Environmental		12/4/09	1245			
Shipment Date:						
Shipment Method:				Kiff Analytical	12/04/09	1300

Special Instructions: ***Run TEPH w/ silica gel cleanup**

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER: LJR (Initials)

SRG#: 71097 Date: 120409

Project ID: Former Strough Chevy - Oakland

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher?	☒ Yes	☐ No	Dated? ☒ Yes	☐ No
Is sampler name legibly indicated on COC?	☒ Yes	☐ No		
Is analysis or hold requested for all samples	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs?	☐ Yes	☐ No, Whiteout	☒ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 3.2 Therm. ID# IR-2 Initial LJR Date/Time 120409/1248 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC?	☒ Yes	☐ No	☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated?	☐ Yes, on sample containers	☒ Yes, on COC	☐ Not indicated	☐ N/A
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		
Does any sample contain product, have strong odor or are otherwise suspected to be hot?	☐ Yes	☒ No		

Receipt Details

Matrix WA	Container type VOA	# of containers received 35
Matrix	Container type	# of containers received
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 120409 Time: 1300

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated	
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A		
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated	
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A		
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated	
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A		
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated	
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A		

COMMENTS:

KIFF Analytical LLC

Report Number : 71386
Date : 12/30/2009

Mehrdad Javaherian
LRM Consulting, Inc.
1534 Plaza Lane, #145
Burlingame, CA 94010

Subject : 1 Water Sample
Project Name : Former Strough Chevy - Oakland
Project Number : M1-091228

Dear Mr. Javaherian,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 71386
Date : 12/30/2009

Project Name : **Former Strough Chevy - Oakland**
Project Number : **M1-091228**

Sample : **MW9A** Matrix : Water Lab Number : 71386-01
Sample Date :12/28/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**12000**	50	ug/L	EPA 8260B	12/29/2009
Toluene	**34000**	50	ug/L	EPA 8260B	12/29/2009
Ethylbenzene	**4300**	50	ug/L	EPA 8260B	12/29/2009
Total Xylenes	**24000**	50	ug/L	EPA 8260B	12/29/2009
Methyl-t-butyl ether (MTBE)	**2100**	50	ug/L	EPA 8260B	12/29/2009
Tert-Butanol	**680**	250	ug/L	EPA 8260B	12/29/2009
TPH as Gasoline	**180000**	5000	ug/L	EPA 8260B	12/29/2009
1,2-Dichloroethane-d4 (Surr)	94.1		% Recovery	EPA 8260B	12/29/2009
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	12/29/2009
TPH as Diesel (w/ Silica Gel)	**< 200000**	200000	ug/L	M EPA 8015	12/30/2009
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Motor Oil (w/ Silica Gel)	**3400**	500	ug/L	M EPA 8015	12/30/2009
Octacosane (Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	12/30/2009

Report Number : 71386

Date : 12/30/2009

QC Report : Method Blank Data

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091228**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/29/2009
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/29/2009
Octacosane (Silica Gel Surr)	89.1		%	M EPA 8015	12/29/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2009
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/28/2009
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/28/2009
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/28/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/28/2009
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	12/28/2009
Toluene - d8 (Surr)	99.6		%	EPA 8260B	12/28/2009

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 71386

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/30/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091228**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)														
	BLANK	<50	1000	1000	985	948	ug/L	M EPA 8015	12/29/09	98.5	94.8	3.74	70-130	25
Benzene														
	71389-01	<0.50	40.6	40.5	37.8	38.2	ug/L	EPA 8260B	12/28/09	93.2	94.4	1.24	80-120	25
Ethyl-tert-butyl ether														
	71389-01	<0.50	40.3	40.2	38.7	38.3	ug/L	EPA 8260B	12/28/09	96.1	95.2	0.880	76.5-120	25
Ethylbenzene														
	71389-01	<0.50	40.3	40.2	39.4	39.6	ug/L	EPA 8260B	12/28/09	97.8	98.4	0.671	80-120	25
Methyl-t-butyl ether														
	71389-01	9.2	40.6	40.6	47.6	47.0	ug/L	EPA 8260B	12/28/09	94.6	93.3	1.39	69.7-121	25
P + M Xylene														
	71389-01	<0.50	39.2	39.2	38.6	38.9	ug/L	EPA 8260B	12/28/09	98.4	99.4	0.951	76.8-120	25
Tert-Butanol														
	71389-01	<5.0	202	201	187	183	ug/L	EPA 8260B	12/28/09	92.6	90.9	1.89	80-120	25
Toluene														
	71389-01	<0.50	40.3	40.2	38.8	38.9	ug/L	EPA 8260B	12/28/09	96.1	96.5	0.401	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 71386

QC Report : Laboratory Control Sample (LCS)

Date : 12/30/2009

Project Name : **Former Strough Chevy - Oakland**

Project Number : **M1-091228**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.6	ug/L	EPA 8260B	12/28/09	93.8	80-120
Ethyl-tert-butyl ether	40.3	ug/L	EPA 8260B	12/28/09	94.8	76.5-120
Ethylbenzene	40.3	ug/L	EPA 8260B	12/28/09	98.8	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	12/28/09	91.7	69.7-121
P + M Xylene	39.2	ug/L	EPA 8260B	12/28/09	100	76.8-120
Tert-Butanol	202	ug/L	EPA 8260B	12/28/09	91.9	80-120
Toluene	40.3	ug/L	EPA 8260B	12/28/09	96.9	80-120

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

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Sacramento, CA 95821
916-760-7641 - main
916-473-8617 - fax
www.confluence-env.com

Chain of Custody

71386

Project Name: Former Strough Chevy - Oakland

Job Number: 1411-091228

TAT: (STANDARD) 5 DAY 2 DAY 24 HOUR OTHER:

Lab: **Kiff**	Site Address: 327 34th St, Oakland	Confluence PM: Jason Brown
Address: 2795 2nd St, Suite 300, Davis CA 95616	California Global ID No.: T0600101644	Phone / Fax: 916-760-7641 / 916-473-8617
Contact: Angelique Showman	Include EDF w/ Report: (Yes) No	Confluence Log Code: **CESC**
Phone/ Fax: 530-297-4800 x.127	Consultant / PM: LRM / Merhdad Javaherian	Report to: Merhdad Javaherian
	Phone / Fax: (415) 706-8935	Invoice to: Merhdad Javaherian

	Sample ID	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Requested Analysis: TEPH Diesel & Motor Oil* (8015)	Requested Analysis: TPH-G, BTEX (8260B)	Requested Analysis: MTBE, TBA (8260)	Requested Analysis: BOD (5210B)	Requested Analysis: COD (410.1)	Requested Analysis: Nitrite/ Nitrate (354.1)	Requested Analysis: TKN (4500)	Requested Analysis: Ortho-phosphate (365.3)	Requested Analysis: Microbial population heterotrophic & specific degrader plate count (9215-A)	Notes and Comments
	MW9A	1000	12/10		X			2				2		X	X	X							01

Sampler's Name: B. Myers	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Confluence Environmental		12/10/09	1510			
Shipment Date:						
Shipment Method:				for Kiff Analytical LLC	12/2/09	1510

Special Instructions: ***Run TEPH w/ silica gel cleanup**

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER: TJB (Initials)

SRG#: 71386 Date: 122809

Project ID: Former Strouja Chevy - Oakland

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No	
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present ☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated?	☒ Yes	☐ No	
Is sampler name legibly indicated on COC?	☒ Yes	☐ No	
Is analysis or hold requested for all samples	☒ Yes	☐ No	
Is the turnaround time indicated on COC?	☒ Yes	☐ No	
Is COC free of whiteout and uninitialed cross-outs?	☒ Yes	☐ No, Whiteout	☐ No, Cross-outs

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 6.2 Therm. ID# IR-2 Initial TJB Date/Time 122809 / 1510 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No ☐ No, COC lists absent sample(s)		☐ No, Extra sample(s) present		
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☒ Yes, on sample containers	☒ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☐ Yes	☒ No		

Does any sample contain product, have strong odor or are otherwise suspected to be hot? ☐ Yes ☒ No

Receipt Details

Matrix WA	Container type VOA	# of containers received 2
Matrix	Container type	# of containers received
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 122809 Time: 1510

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	

COMMENTS: Possible insufficient sample. TJB 122809 1515

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