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February 14, 2007

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

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

Dear Mr. Hwang:

This letter is to accompany the *Fourth Quarter 2006 Groundwater Monitoring Report* for the above-referenced site. If you have any questions, please contact the undersigned at (510) 414-9315.

Sincerely,

A handwritten signature in black ink, appearing to read "Ram Rao", written over a circular professional seal.

Ram Rao, P.E.
Senior Engineer



cc: Mr. Don Strough, Strough Family Trust, 2 Sea View Avenue, Piedmont, California 94611
Mr. Gregory Brandt, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Jonathan Redding, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Ms. Donna Dragos, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, California 94502



**FOURTH QUARTER 2006
GROUNDWATER MONITORING REPORT**

**FORMER VAL STROUGH CHEVROLET
327, 34TH STREET
OAKLAND, CALIFORNIA**

Prepared For:

**Mr. Don Strough
Strough Family Trust of 1983
P.O. Box 489
Orinda, California 94563**

Prepared By:

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

14 February 2007



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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 2006 Groundwater Monitoring Report* for the former Val Strough Chevrolet located in Oakland, California. This report documents the procedures and findings of the 12 December 2006 groundwater monitoring event. This report also summarizes data for 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 34 th 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:	7 (all onsite)
Site ID #:	3035
RO #:	0000134

1.2 Site Contacts

Consultant:	Ram Rao, P.E. LRM Consulting, Inc. 1534 Plaza Lane, # 145 Burlingame, CA 94010 (650) 343-4633
Regulatory agency:	Don Hwang Alameda County Health Services Agency (ACHCSA) 1131 Harbor Bay Parkway, Suite 250 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 2 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 an average hydraulic gradient of approximately 0.02 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 MW2 and MW3. These data indicate 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.

Petroleum Hydrocarbon Distribution in Groundwater: The highest concentrations of petroleum hydrocarbons have been detected in samples collected from wells MW2 and MW3. Generally lower levels of petroleum hydrocarbons have been detected in samples collected from well MW4, and the other site wells. 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 MW5, MW6, and MW7 (Table 2). These data suggest that the petroleum hydrocarbon plume is stable.

In addition, fuel oxygenates (tertiary amyl methyl ether, ethyl tertiary butyl ether, di-isopropyl ether, tertiary butyl alcohol and ethanol) and lead scavengers (ethylene dibromide and ethylene dichloride) were detected near laboratory reporting limits or were not detected in groundwater samples collected from borings HP1 and HP3 in December 2003 (Table 3). Note that boring HP2 was dry during the December 2003 sampling event.

2.2 Summary of Interim Remedial Action Activities

Since 2004, in addition to the routine groundwater monitoring activities, remediation pilot testing and remediation activities were conducted at the site. 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 MW2 and MW3 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 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 MW2 and MW3 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 (MW2 and/or MW3). 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 MW3 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.

25 August 2006 LRM Consulting Correspondence and 11 December 2006 LRM Supplemental Source Area Investigation Work Plan: In a 25 August 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 19 October 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 MW2 and MW3. 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 is currently under review by Mr. Hwang (see LRM's *Supplemental Source Area Investigation Work Plan*).

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 12 December 2006. The scope of work for the quarterly groundwater monitoring event at the site included:

- Checking all wells for SPH.
- Gauging the depth to groundwater in all wells.
- Purging the monitoring wells to be sampled.
- Collecting and analyzing groundwater samples from the wells where no SPH is detected.
- 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

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 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 2. Field data forms are presented in Appendix B.

3.2 Well Purging

Approximately three well casing volumes of water were purged from wells MW1, MW2, MW3, MW4 and MW6. Field parameters including temperature, pH, specific conductance, and dissolved oxygen were measured during purging of all three wells. Groundwater monitoring protocols are presented in Appendix A.

3.3 Groundwater Sampling

After purging, groundwater in each well was sampled using dedicated tubing and a WaTerra inertial pump, or a disposable bailer. 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 C.

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. SPH was not detected in monitoring wells during this monitoring event.

4.2 Groundwater Elevation and Hydraulic Gradient

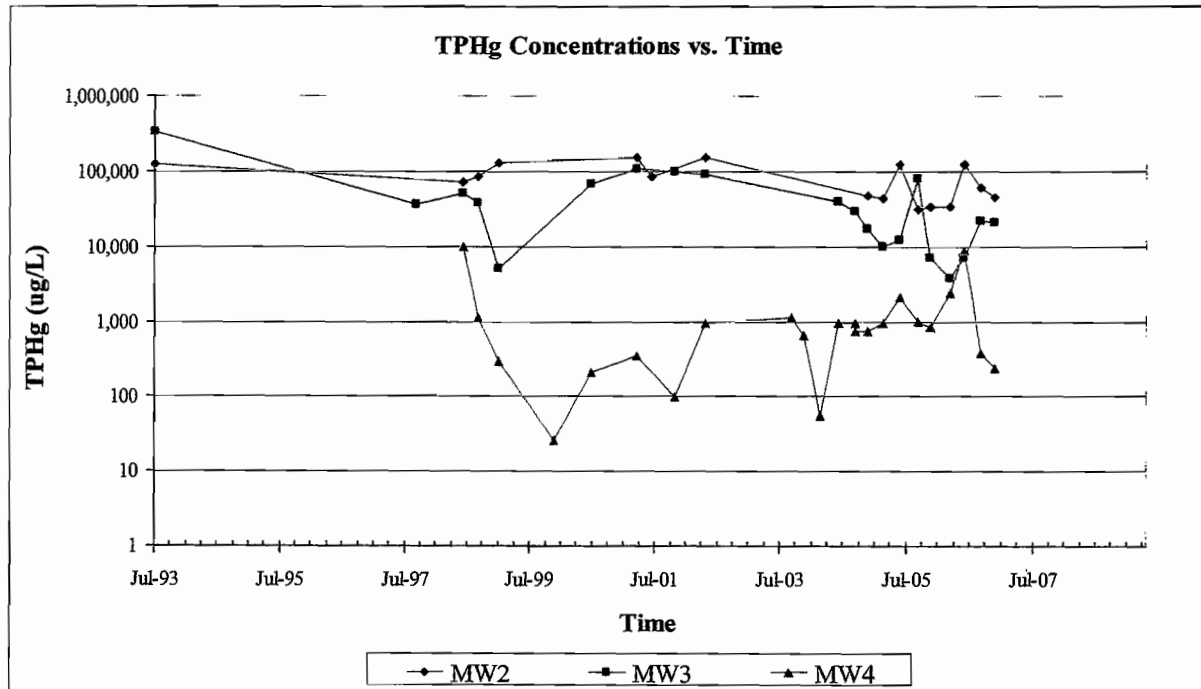
On 12 December 2006, the depth to water beneath the site ranged from 15.21 to 23.08 feet bgs (Table 2). Groundwater elevations in the site wells during this monitoring event ranged from 42.51 feet above msl in well MW5 to 44.61 feet above msl in wells MW3 (Figure 2). The hydraulic gradient is approximately 0.015 ft/ft and flow direction is generally towards the south-southeast. At the request of the ACHCSA, a rose diagram depicting historical hydraulic gradients and groundwater flow directions are also presented on Figure 2.

4.3 Groundwater Analytical Results

On 12 December 2006, groundwater samples were collected from wells MW1, MW2, MW3, MW4, and MW6 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. Analytical results for this event are presented on Figure 3, and historical results are presented in Table 2. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix C. Laboratory analytical results are summarized below:

- TPH-g was detected in the samples collected from well MW2 at 45,000 µg/L, MW3 at 21,000 µg/L, and MW4 at 230 µg/L. TPH-g was not reported above laboratory reporting limits in wells MW-1 and MW-6.
- Benzene was detected in the samples collected from well MW2 at 850 µg/L, well MW3 at 1,400 µg/L, well MW4 at 11 µg/L, and MW6 at 0.67 µg/L. Benzene was not reported above laboratory reporting limits in well MW-1.
- MTBE was detected in the samples collected from well MW1 at 9.4 µg/L, well MW2 at 110 µg/L, well MW3 at 130 µg/L, well MW4 at 260 µg/L, and well MW6 at 89 µg/L.
- TPH-d was not detected in groundwater samples collected from any well this quarter.
- TPH-mo was detected at concentrations of 360 and 230 µg/L in wells MW2 and MW6, respectively; TPH-mo was not detected in groundwater samples collected from wells MW-1, MW3, and MW4 this quarter.

TPHg concentration trends near the residual source area are shown below on the graph for wells MW2, MW3, and MW4:



5.0 INTERIM REMEDIAL ACTION SUMMARY

5.1 DPE System Operational Status

Operational Status: The DPE system began operation on 23 February 2005 and continued to operate until 30 January 2006. The system remained offline from 30 January 2006 to 22 May 2006, when it was restarted. In the interim, the vapor abatement system was modified from a thermal oxidizer with propane supplemental fuel to vapor-phase carbon adsorption. Following the restart in May 2006, operation of the DPE system was ceased by ETIC on 30 June 2006 due to frequent shutdowns caused by reported overheating of the electrical phase-converter. Currently, the skid-mounted DPE unit has been mobilized offsite.

Permits: The system operated in accordance with appropriate BAAQMD and East Bay Municipal Utility District (EBMUD) discharge permits. Prior to system startup, appropriate approvals were also obtained from the City of Oakland Building and Fire Departments.

System Construction: Wells MW2 and MW3 used for DPE were connected to the treatment system compound via underground piping. While in operation, the DPE unit consisted of a liquid-ring pump, knock-out vessel, and thermal oxidizer/carbon vessels and was placed inside a fenced compound in a parking lot located to the west of the site structures.

5.2 DPE System Performance

A brief summary of the DPE system performance through 30 June 2006, when it was shutdown is presented below:

- From 23 February 2005 to 30 June 2006, the system operated for approximately 265 days (Table 7).
- Influent concentrations of TPH-g in groundwater decreased from 20,000 µg/L (12/8/05) to 1,300 µg/L (6/12/06) (Figure 4 and Table 4).
- The influent concentration of TPH-g in soil vapor decreased from 1,400 parts per million by volume (ppmv) (12/8/05) to 100 ppmv (6/12/06) (Figure 5 and Table 5).
- Through 30 June 2006, the DPE system extracted approximately 736,605 gallons of groundwater at an average flow rate of 1.9 gallons per minute (Table 6).
- Approximately 113.57 pounds of TPH-g and 2.2 pounds of benzene have been removed in the aqueous phase during the operation of the DPE system (Figure 4 and Table 6).
- The average system vapor flow rate has been 38 cubic feet per minute (CFM) since operation began (Table 7).

- Approximately 9,021 pounds of TPH-g and 98.9 pounds of benzene have been removed in the vapor phase during the operation of the DPE system (Table 7). These mass removal calculations are based on influent vapor samples typically collected while the system was operational for more than 3 days prior to vapor sample collection. The estimated amounts of TPH-g and benzene removed have been recalculated since the first quarter of 2006, corresponding to more recent and updated data that have been obtained.

5.3 DPE System Performance Evaluation

The DPE system has removed significant quantities of petroleum hydrocarbons from the subsurface since its startup in February 2005 until its operation was ceased on 30 June 2006. However, continued operation of the DPE system is anticipated to be ineffective at this site. First, the curves representing the cumulative mass of TPH-g removed shown on Figures 4 and 5 illustrate asymptotic removal rates (flattening of the curves) and insignificant benefit relative to cost for continued operation of the DPE system. Second, response in hydrocarbon concentrations in wells MW2 and MW3 to remedial pumpage indicate that the DPE system operation likely resulted in mobilization of the plume toward these wells. Petroleum hydrocarbon concentrations in well MW2 were higher following restart of the system in May 2006 and prior to the 30 June 2006 shutdown of the DPE system (June 2006) than after system shutdown (September and December 2006). This is likely due to pumpage at this well, which resulted in pulling the plume toward the well from the residual source area. Monitoring data from well MW3, including increasing concentration trends since DPE termination, further suggest that the residual source may have contributed hydrocarbon mass to well MW3, perhaps in response to remedial pumpage at this well.

If the results of the proposed residual source area supplemental investigation activities outlined in Section 6.2 warrant further remediation in this area, then technologies capable of reducing the remaining residual petroleum hydrocarbon mass such as bioremediation or in-situ oxidation will be considered for implementation at the site.

6.0 PLANNED ACTIVITIES

6.1 Monitoring Activities

Groundwater will be monitored in accordance with the schedule presented in Table 8.

6.2 Additional Investigation/Remediation Activities

Based on the operational behavior of the DPE system and the observed responses in hydrocarbon concentrations in wells MW2 and MW3, LRM recommended further investigation of the extent and magnitude of residual hydrocarbons in the area targeted by the DPE system (i.e., former residual source area in the vicinity of these wells) (see LRM's *Supplemental Source Area Investigation Work Plan*, dated 11 December 2006). Through this investigation, LRM plans to determine the need, extent, and nature of corrective action, including additional remediation and/or monitoring. LRM is prepared to proceed with the actions set forth in the 11 December 2006 work plan as soon as written approvals provided by the ACHCSA.

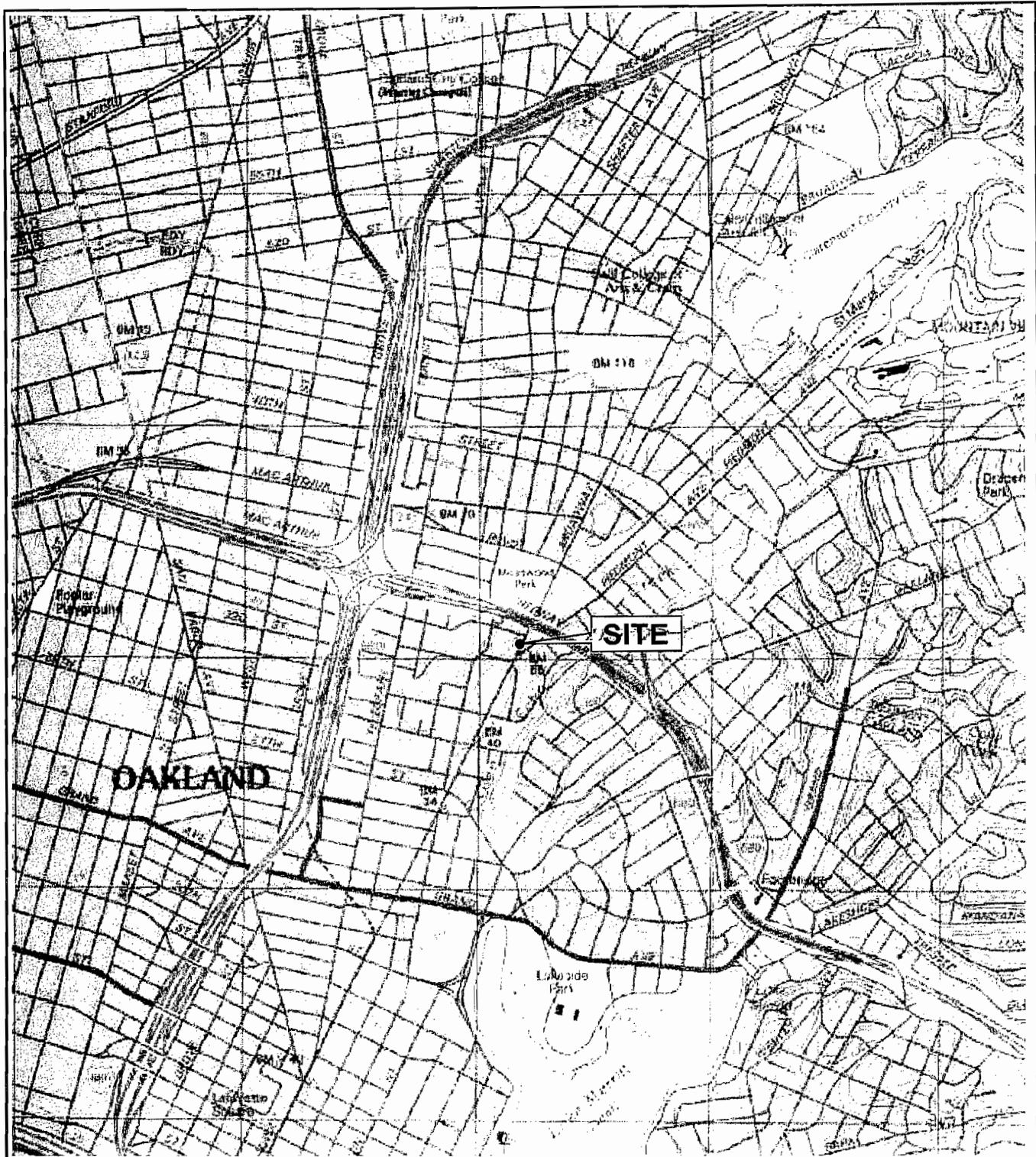
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- LRM Consulting, Inc.. 2006. Second Quarter 2006 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. August.
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FIGURES

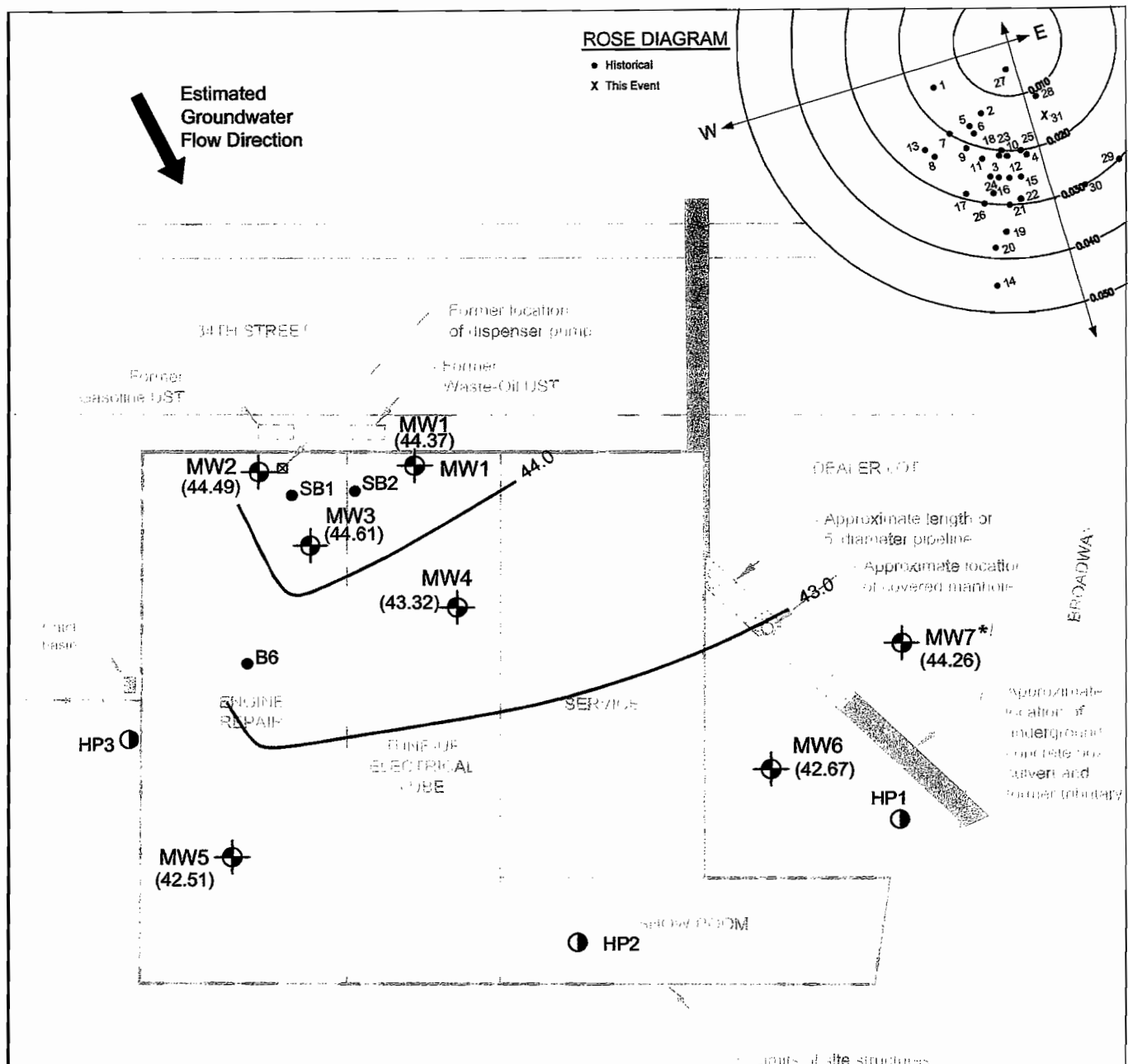


Scale (feet)



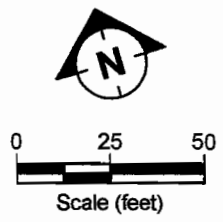
SITE LOCATION MAP
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 12 DECEMBER 2006

FIGURE:
1



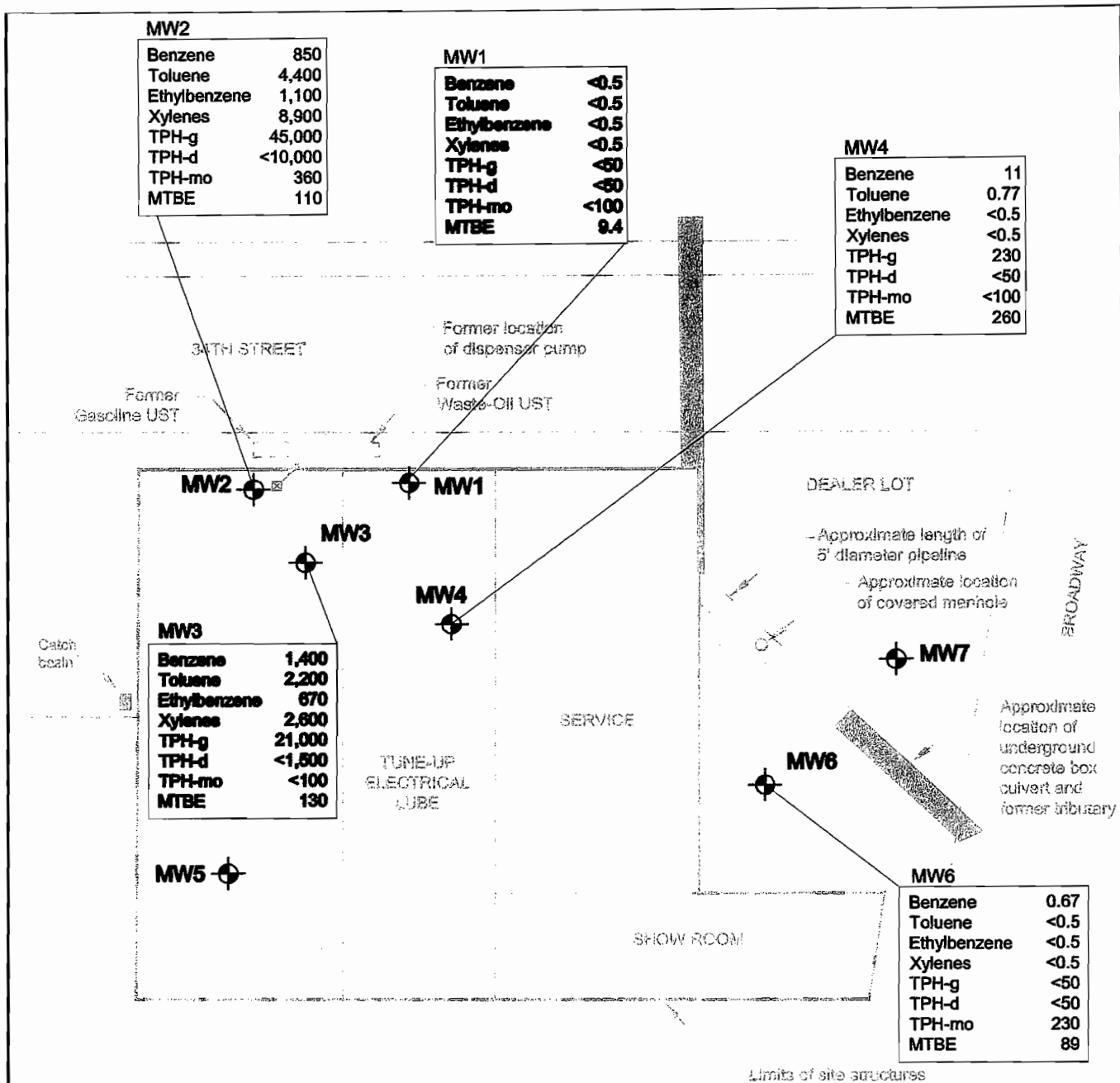
LEGEND:

- SB1 ● Soil boring
- HP2 ○ Grab groundwater sampling location
- MW2 ⊕ Groundwater monitoring well
- 44.49 Groundwater elevation (feet above mean sea level)
- 44.0 ~ Groundwater elevation contour (feet above mean sea level)
- * Data not used for contouring



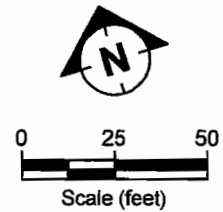
GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 12 DECEMBER 2006

FIGURE:
2



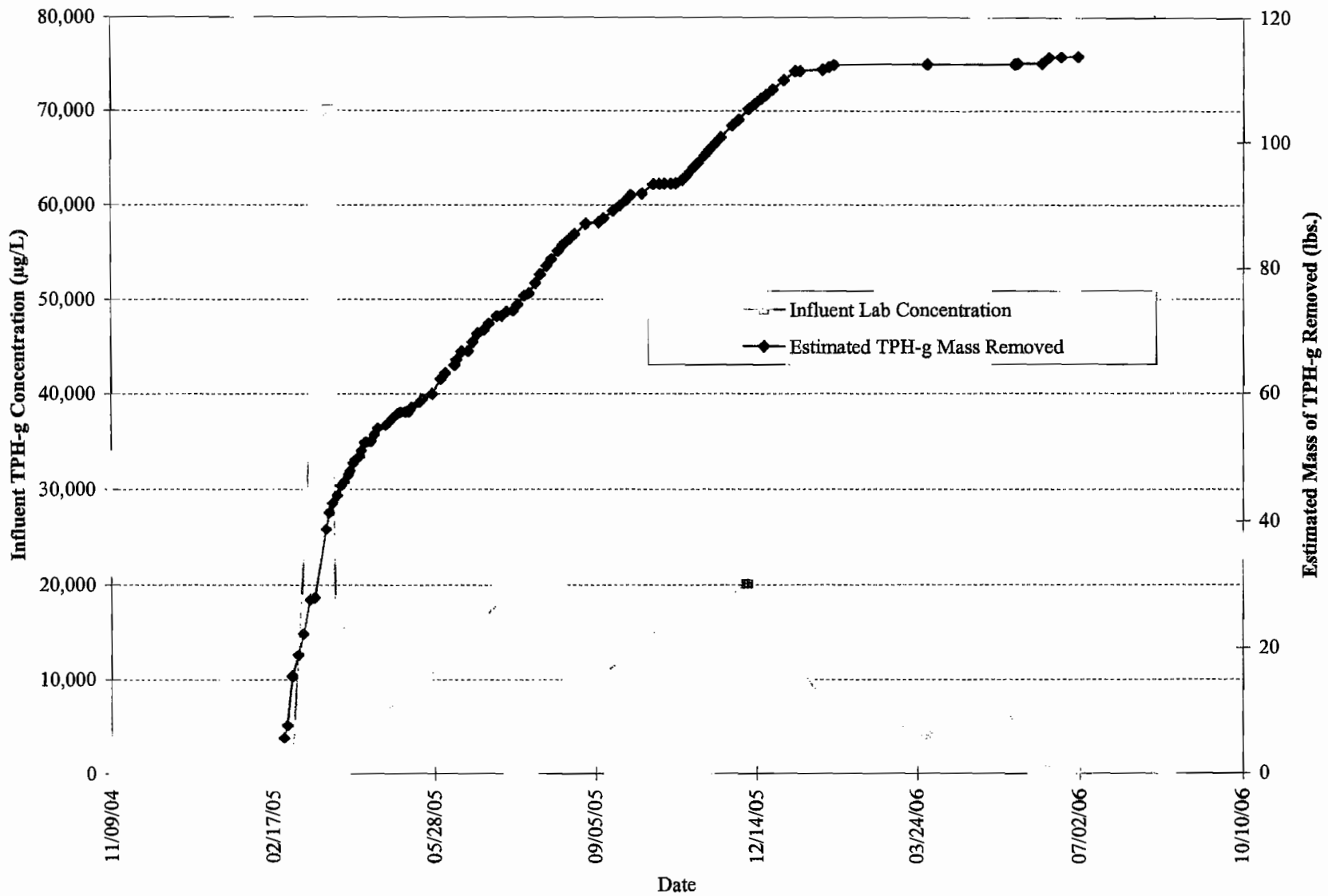
LEGEND:

- MW5 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
- All concentrations are reported in micrograms per liter (ug/L)



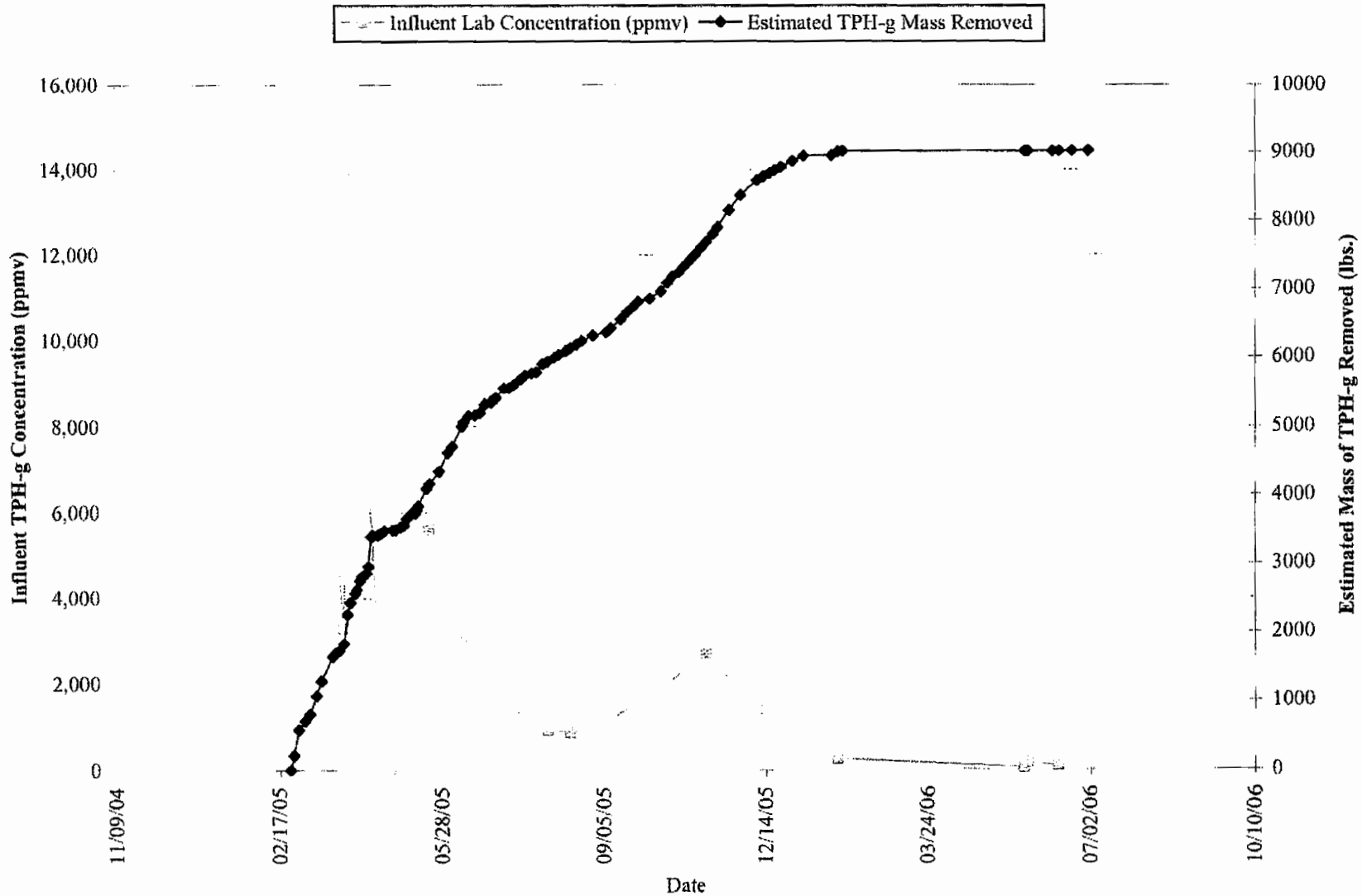
GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 12 DECEMBER 2006

FIGURE:
3



INFLUENT TPH-g CONCENTRATIONS AND ESTIMATED MASS REMOVED BY GROUNDWATER PHASE
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 12 DECEMBER 2006

FIGURE: **4**



INFLUENT TPH-g CONCENTRATIONS AND ESTIMATED MASS REMOVED BY VAPOR PHASE
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 12 DECEMBER 2006

FIGURE:
5

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	07/19/93	64.69	PVC	32	2	17-32	0.020	15-32	Gravel Pack
MW2	07/20/93	65.95	PVC	33	2	18-33	0.020	16-33	Gravel Pack
MW3	07/20/93	65.99	PVC	34	2	18-34	0.020	16-34	Gravel Pack
MW4	06/26/98	63.35†	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW5	06/26/98	65.59	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW6	07/17/00	59.60	PVC	31.5	2	10-30	0.020	8-30	Lonestar #3 Sand
MW7	07/17/00	59.47	PVC	36.5	2	15-35	0.020	13-35	Lonestar #3 Sand

* Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.

† The casing elevation is uncertain.

PVC Polyvinyl chloride.

ft bgs Feet below ground surface.

TABLE 2 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)								Concentration (mg/L)														
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SU ₄	N-NH ₃	N-NO ₂	o-P ₂ O ₄					
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	204	5	--	6.16	0.15	0.046	55	<0.10	<0.10	2	--	--	--	--	--
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	192	3.6	--	6.49	--	--	--	--	--	--	--	--	--	--	--
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	389	3.4	--	6.72	--	--	--	--	--	--	--	--	--	--	--
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	--	3.31	--	6.52	--	--	--	--	--	--	--	--	--	--	--
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	120	7.37	--	6.66	0.13	<0.01	54	<0.10	3.4	<0.2	--	--	--	--	--
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	117	NR	--	NR	<0.10	0.045	57	<0.10	6.6	0.15	--	--	--	--	--
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	120	0.96	--	6.47	0.32	1.8	63	<0.10	5.5	<0.20	--	--	--	--	--
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	120	0.96	--	6.25	<0.10	0.5	58	<0.10	5.5	<0.20	--	--	--	--	--
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	--	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	0.15	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	1.01	--	6.42	--	--	--	--	--	--	--	--	--	--	--
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	--	1.96	--	6.04	--	--	--	--	--	--	--	--	--	--	--
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	i	<50	<500	<0.50	--	1.84	317.4	6.43	--	--	--	--	--	--	--	--	--	--
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	--	1.57	--	6.73	--	--	--	--	--	--	--	--	--	--	--
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	8	<100	0	7.9	--	0.43	--	6.40	--	--	--	--	--	--	--	--	--	--
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	--	0.38	--	6.39	--	--	--	--	--	--	--	--	--	--	--
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	185	2.2	--	5.98	--	--	--	--	--	--	--	--	--	--	--
MW2	07/29/98	101.27	a 20.11	81.16	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	08/26/98	101.27	a 20.54	80.73	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	10/01/98	101.27	a 21.52	79.75	0.42	6,400	17,000	2,600	17,000	84,000	--	--	2,000	--	2.7	--	6.47	--	--	--	--	--	--	--	--	--	--	--
MW2	10/30/98	101.27	a 21.54	79.73	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	11/30/98	101.27	a 21.21	80.06	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	12/28/98	101.27	a 21.10	80.17	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 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)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	NO ₃	N-NH ₃	N-NO ₂	o-P'U ₂
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	386	0.3	--	6.69	--	--	--	--	--	
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	*	*	*	*	*	*	*	*	*	0.88	*	6.37	*	*	*	*	*	
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	168	NR	--	NR	3.1	2.5	16	0.14	0.19	<0.20
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	--	--	--	--	--	--	--	--	120	NR	--	6.15	1.8	2	16	<0.10	--	<0.20
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	160	0.88	--	5.99	3.9	1.7	13	<0.10	0.54	<0.20
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*	12/12/03	65.95	b 22.75	43.31	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2*	03/15/04	65.95	b 19.24	46.72	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2*	06/24/04	65.95	b 22.10	44.06	0.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2*	09/29/04	65.95	b 22.81	43.14	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2*	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	*	0.27	*	6.63	*	*	*	*	*	*
MW2 ^j	03/14/05	65.95	b 25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000	h <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	--	3.05	-147.6	--	--	--	--	--	--	--
MW2	07/18/05	65.95	NM	NC	NM	2,700	13,000	1,800	15,000	120,000	17,000	--	530	--	--	--	--	--	--	--	--	--	--
MW2	09/26/05	65.95	22.93	43.02	0.00	570	4,000	620	6,200	31,000	63,000	28,000	k <50	--	--	--	--	--	--	--	--	--	--
MW2	12/12/05	65.95	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	15.66	50.29	sheen	620	2,800	540	4,700	33,000	<4,000	<100	37	--	7.59	--	6.9	--	--	--	--	--	--
MW2	06/19/06	65.95	19.14	46.81	sheen	680	5,200	990	16,000	120,000	<30,000	1,900	170	--	1.78	--	6.21	--	--	--	--	--	--
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	--	1.71	--	6.66	--	300	--	--	--	--
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	--	1.5	--	6.61	--	--	--	--	--	--
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	300	2	--	6.03	1.4	9.8	13	1.4	<0.10	2.4
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	240	2	--	6.65	--	--	--	--	--	--
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	238	1	--	7.01	--	--	--	--	--	--
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	128	2.05	--	6.73	3.9	6.6	20	<0.10	0.55	<0.20
MW3	10/11/00	101.29	a 22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 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)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-P ₂ O ₅
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	137	NR	--	NR	1	6	8.2	<0.10	0.13	<0.20
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	120	2.93	--	6.67	0.84	12	31	<0.10	--	<0.20
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	130	1.01	--	6.62	4.2	9.6	25	<0.10	0.77	<0.20
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*	12/12/03	65.99	b 22.73	43.27	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3*	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	--	0.07	--	--	--	--	--	--	--	--
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	--	0.80	--	6.42	--	--	--	--	--	--
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	--	0.16	--	6.7	--	--	--	--	--	--
MW3 ⁱ	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	--	1.93	-150.4	--	--	--	--	--	--	--
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	--	1.23	--	6.89	--	--	--	--	--	--
MW3	06/19/06	65.99	b 19.11	46.88	0.00	160	500	320	840	7,000	<300	<100	3.1	--	2.30	--	6.40	--	--	--	--	--	--
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	--	1.05	--	6.78	--	--	--	--	--	--
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	--	0.6	--	6.72	--	--	--	--	--	--
MW4	06/30/98	98.65	a 16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	222	2.6	--	6.18	0.14	4.3	14	0.8	0.8	1.5
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	320	3.4	--	<0.001	--	--	--	--	--	--
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	475	6.7	--	7	--	--	--	--	--	--
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	--	1.75	--	7.02	--	--	--	--	--	--
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	126	3.88	--	6.67	9.5	5.3	11	<0.10	0.04	<0.20
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	107	NR	--	NR	0.8	6.3	10	<0.10	<0.05	<0.20
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	130	0.83	--	6.51	1.6	10	11	<0.10	--	<0.20
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	150	1.65	--	6.32	3.1	8.4	9	<0.10	0.06	<0.20
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	d	<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	d	<50	<500	41	--	0.16	--	--	--	--	--	--	--
MW4	06/24/04	63.35	b 19.31	44.04	0.00	69	<5.0	<5.0	<10	920	d	<50	<500	1,100	--	0.15	--	--	--	--	--	--	--

TABLE 2 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)									Concentration (mg/L)													
						Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃	N-NO ₃	o-P-U ₄					
MW4	09/29/04	63.35	b 20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940	g	<50	<500	1,200	--	0.13	--	6.63	--	--	--	--	--	--	--	--	--	--
MW4	12/13/04	**	b 20.44	NC	0.00	<5.0	<5.0	<5.0	<10	740		<50	<500	860	--	0.58	--	6.84	--	--	--	--	--	--	--	--	--	--
MW4	03/14/05	**	b 18.30	NC	0.00	20	<5.0	<5.0	<10	930	i	<50	<500	930	--	0.28	--	6.34	--	--	--	--	--	--	--	--	--	--
MW4	06/15/05	**	b 20.03	NC	0.00	350	6.1	<5.0	<10	2100	89	<500		1,100	--	0.46	-98.9	--	--	--	--	--	--	--	--	--	--	--
MW4	07/18/05	**	NM	NC	NM	11	<5.0	<5.0	<10	540	i	<50		1,100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/26/05	**	21.79	NC	0.00	<5.0	<5.0	<5.0	<10	960	i	<50	<500	660	--	2.20	210.4	6.73	--	--	--	--	--	--	--	--	--	--
MW4	12/12/05	**	21.89	NC	0.00	<5.0	<5.0	<5.0	<10	820		<50	<500	1,000	--	2.05	--	6.62	--	--	--	--	--	--	--	--	--	--
MW4	03/29/06	**	14.85	NC	0.00	49	160	120	300	2,400	<100	<100	130	--	1.07	--	6.82	--	--	--	--	--	--	--	--	--	--	--
MW4	06/19/06	**	17.96	NC	0.00	100	940	540	1,800	8,800	<400	<100	55	--	2.49	--	5.76	--	--	--	--	--	--	--	--	--	--	--
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	--	0.25	--	6.66	--	--	--	--	--	--	--	--	--	--	--
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	--	0.90	--	6.61	--	--	--	--	--	--	--	--	--	--	--
MW5	06/30/98	100.9	a 20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	220	4.3	--	6.1	--	--	--	--	--	--	--	--	--	--	--
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	256	4.8	--	6.71	--	--	--	--	--	--	--	--	--	--	--
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	305	9.7	--	7.04	--	--	--	--	--	--	--	--	--	--	--
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	--	2.72	--	7.19	--	--	--	--	--	--	--	--	--	--	--
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	134	5.58	--	6.35	0.11	0.017	49	<0.10	3.9	<0.20	--	--	--	--	--
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	183	66	--	NR	<0.10	0.042	45	<0.10	2.9	0.11	--	--	--	--	--
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	--	66	--	6.01	0.2	2.5	42	<0.10	--	<0.20	--	--	--	--	--
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	140	66	--	6.3	<0.1	0.22	44	<0.10	3	<0.20	--	--	--	--	--
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	d <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	--	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	06/24/04	65.59	b 23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	f <500	0.79	--	5.56	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	3.91	--	5.57	--	--	--	--	--	--	--	--	--	--	--
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	--	2.3	--	6.3	--	--	--	--	--	--	--	--	--	--	--
MW5	06/19/06	65.59	b 20.22	45.37	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	09/29/06	65.59	b 22.80	42.79	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	12/12/06	65.59	b 23.08	42.51	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 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)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SU ₂	N-NH ₃	N-NO ₃	o-p'Cl ₂
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	122	2.72	--	6.66	120	1.9	53	6	0.05	<0.20
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	142	NR	--	NR	22	2.2	0.69	5.2	<0.05	<0.20
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	100	2.03	--	6.44	29	5.2	1.1	3.4	--	<0.20
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	100	0.76	--	6.6	11	3.4	1.4	8.9	0.65	<0.20
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	d <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	--	0.11	--	--	--	--	--	--	--	--
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	--	0.05	--	--	--	--	--	--	--	--
MW6	09/29/04	59.60	b 18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210	g <50	<500	190	--	0.37	--	6.60	--	--	--	--	--	--
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	--	0.08	--	5.65	--	--	--	--	--	--
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	--	1.52	--	6.61	--	--	--	--	--	--
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	--	6.93	--	6.06	--	--	--	--	--	--
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	--	0.16	--	6.49	--	--	--	--	--	--
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	--	0.5	--	6.68	--	--	--	--	--	--
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	32.2	7.15	--	7.43	<0.1	0.002	7.5	<0.10	2.6	0.13
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	77.6	NR	--	NR	0.18	0.048	49	<0.10	2.7	0.31
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	62	0.96	--	7.11	0.16	1.8	63	<0.10	--	<0.20
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	68	1.03	--	7.57	0.11	0.35	51	<0.10	2.8	0.11
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	--	0.54	--	--	--	--	--	--	--	--
MW7	06/24/04	59.47	b 16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	f <500	<0.50	--	0.20	--	--	--	--	--	--	--	--
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	--	0.47	--	6.15	--	--	--	--	--	--
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	--	8.72	--	5.81	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 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)								Concentration (mg/L)							
						Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO ₂ (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO ₄	N-NH ₃

SPH Separate-phase hydrocarbons.

CO₂ Carbon dioxide.

DO Dissolved oxygen.

Fe(II) Ferrous iron.

Mn Manganese.

SO₄ Sulfate.

N-NH₃ Ammonia.

N-NO₃ Nitrate.

o-PO₄ Ortho-Phosphate.

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.

NC Not calculated.

NM Not measured.

NR Not reported.

µg/L Micrograms per liter.

mg/L Milligrams 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.

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 motor oil.

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

Boring ID	Date	Depth (feet)	Concentrations (µg/L)													
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
HP1	12/18/03	26-30	<5.0	<5.0	<5.0	11	410	180	<500	<50	480	<10	<5.0	<5.0	<5.0	<5.0
HP3	12/18/03	32-36	<0.50	<0.50	<0.50	<1.0	<50	75	<500	<5.0	0.55	<1.0	<0.50	<0.50	1.3	<0.50

TPH-g Total Petroleum Hydrocarbons as gasoline.
 TPH-d Total Petroleum Hydrocarbons as diesel.
 TPH-mo Total Petroleum Hydrocarbons as motor oil.
 TBA t-butyl alcohol.
 MTBE Methyl tertiary butyl ether.
 DIPE di-isopropyl ether.
 ETBE ethyl t-butyl ether.
 TAME t-amyl methyl ether.
 1,2-DCA 1,2-dichloroethane.
 EDB ethylene dibromide.
 < less than the laboratory reporting limits.

**TABLE 4 DPE SYSTEM - GROUNDWATER ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Sample Location	Sample Date	Concentrations (µg/L)						
		TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Influent								
	12/08/05	20,000	3,100	260	1,500	51	5,300	NA
	01/23/06	7,900	< 3,000	78	350	18	1,400	58
	03/29/06	4,200	< 1,500	110	410	60	690	38
	05/22/06	6,300	< 2,000	210	680	100	860	120
	06/12/06	1,300	< 800	17	72	4.1	200	27
Midfluent								
	12/08/05	< 50	80	< 0.50	< 0.50	< 0.50	< 1.0	NA
	01/23/06	< 50	< 50	< 0.50	< 0.50	< 0.50	1.1	< 0.50
	03/29/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	06/12/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Effluent								
	12/08/05	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	NA
	01/23/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	03/29/06	110	72	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	05/22/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	06/12/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

µg/L - micrograms per liter

TPH-g - Total Petroleum Hydrocarbons as gasoline

TPH-d - Total Petroleum Hydrocarbons as diesel

MTBE - Methyl tert-butyl ether

NA- Not analyzed

Reviewer: RRao
Date: 11/19/06

**TABLE 5 DPE SYSTEM - VAPOR ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Sample Location	Date	Concentration (ppmv) by EPA Method 8015M/8020						POC Abatement Efficiency Based on Lab results
		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	
Influent								
	12/08/05	1,400	58	470	63	550		
	01/27/06	270	7.7	28	2.2	16		
	05/22/06	60	2.4	6.2	1.0	8.9	0.32	
	05/23/06	230	7.6	27	4.4	29	0.58	
	05/24/06	180	5.8	22	3.4	26	0.43	
	06/12/06	100	2.2	9.6	1.1	12	0.21	
Intermediate								
	05/22/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	
	05/23/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	
	05/24/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	
	06/12/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	
Effluent								
	12/08/05	< 11	< 0.15	< 0.13	< 0.11	< 0.23		99.2%
	01/27/06	< 2.5	< 0.063	< 0.05	< 0.046	< 0.092		99.1%
	05/22/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	91.7%
	05/23/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	97.8%
	05/24/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	97.2%
	06/12/06	< 5.0	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	95.0%

Note: When analyte is not detected, laboratory reporting limit is used for destruction efficiency calculations.

TPHg - Total petroleum hydrocarbons as gasoline

ppmv- Parts Per Million by Volume

POC- Precursor Organic Compound

Reviewer: RRao
Date: 11/19/06

**TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/20/04	0.0	0%	0	0.0	2,100	440	0.00	0.00	0.00	0.00
02/23/05	0.0	0%	19,148	0.0			5.75	5.75	0.08	0.08
02/25/05	2.0	99%	25,840	2.3			2.01	7.77	0.03	0.11
02/28/05	3.0	100%	51,770	5.9	NA	550	7.79	15.56	0.12	0.23
03/04/05	1.5	38%	63,010	5.1			3.38	18.94	0.04	0.27
03/07/05	1.4	48%	73,950	5.3			3.29	22.23	0.04	0.31
03/11/05	4.0	98%	92,050	3.2			5.44	27.67	0.07	0.38
03/14/05	3.1	100%	93,080	0.2			0.31	27.98	0.00	0.38
03/21/05	5.1	73%	128,800	4.9			10.74	38.71	0.14	0.52
03/21/05	0.0	0%	128,810	0.0			0.00	38.71	0.00	0.52
03/23/05	0.6	30%	133,270	5.3	70,000	360	2.60	41.32	0.01	0.53
03/25/05	0.6	26%	137,720	5.4			1.45	42.76	0.01	0.54
03/28/05	2.6	94%	156,980	5.2	7,900	240	1.27	44.03	0.04	0.58
03/30/05	2.2	98%	172,040	4.8			1.50	45.53	0.02	0.61
04/01/05	1.7	95%	177,610	2.3			0.55	46.09	0.01	0.61
04/04/05	1.3	45%	186,830	4.8	16,000	150	1.23	47.32	0.01	0.63
04/05/05	0.5	51%	190,620	5.1			0.52	47.84	0.01	0.64
04/07/05	1.3	64%	199,220	4.7			1.18	49.02	0.03	0.67
04/08/05	0.5	53%	203,140	5.0			0.54	49.56	0.01	0.68
04/11/05	0.5	18%	206,960	4.9			0.53	50.08	0.01	0.69
04/12/05	0.9	96%	213,660	4.9			0.92	51.01	0.02	0.71
04/14/05	2.1	100%	222,830	3.1			1.26	52.27	0.03	0.74
04/15/05	0.1	14%	223,760	4.7			0.13	52.40	0.00	0.74
04/18/05	0.0	1%	223,960	6.7	17,000	610	0.03	52.42	0.00	0.74
04/18/05	0.0	0%	223,960	0.0			0.00	52.42	0.00	0.74
04/20/05	1.5	76%	234,520	4.9			1.08	53.51	0.04	0.78
04/22/05	2.0	99%	244,950	3.7			1.07	54.58	0.03	0.81
04/27/05	0.7	13%	249,050	4.3			0.42	55.00	0.01	0.83
04/29/05	1.5	76%	257,120	3.7	7,600	190	0.51	55.51	0.01	0.84

**TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
05/02/05	1.3	44%	265,580	4.4			0.80	56.30	0.01	0.85
05/04/05	0.8	41%	270,850	4.5			0.50	56.80	0.01	0.86
05/06/05	1.9	99%	273,650	1.0			0.26	57.07	0.00	0.86
05/09/05	1.5	47%	273,980	0.2			0.03	57.10	0.00	0.86
05/11/05	0.0	1%	274,000	1.1			0.00	57.10	0.00	0.86
05/12/05	0.7	100%	276,900	2.7			0.27	57.37	0.00	0.87
05/13/05	1.0	59%	278,000	2.7	15,000	130	0.50	57.87	0.00	0.87
05/18/05	2.5	47%	285,030	2.0			0.72	58.60	0.01	0.88
05/20/05	1.0	61%	291,370	4.2	9,700	210	0.51	59.11	0.01	0.89
05/26/05	3.4	57%	299,570	1.7			0.78	59.88	0.02	0.91
05/31/05	5.2	99%	325,600	3.5			2.46	62.35	0.06	0.97
06/03/05	1.8	65%	334,930	3.7			0.88	63.23	0.02	1.00
06/09/05	4.2	70%	347,080	2.0	13,000	360	1.32	64.55	0.04	1.03
06/10/05	1.1	100%	353,340	3.8			0.84	65.38	0.03	1.06
06/13/05	1.9	63%	363,280	3.6			1.33	66.71	0.05	1.11
06/17/05	0.3	7%	363,650	0.9			0.05	66.76	0.00	1.11
06/20/05	1.8	62%	374,370	4.1			1.43	68.19	0.05	1.16
06/23/05	2.2	77%	384,660	3.2			1.37	69.56	0.05	1.21
06/27/05	1.2	30%	389,010	2.6			0.58	70.14	0.02	1.23
06/30/05	1.3	45%	396,470	3.9			1.00	71.14	0.03	1.26
07/05/05	3.2	64%	405,550	2.0			1.21	72.35	0.04	1.31
07/08/05	0.1	2%	405,910	3.8			0.05	72.39	0.00	1.31
07/11/05	1.5	52%	410,020	1.9	19,000	760	0.65	73.05	0.03	1.33
07/15/05	4.0	94%	410,880	0.2			0.16	73.20	0.00	1.34
07/18/05	2.2	79%	416,100	1.6			0.96	74.16	0.03	1.36
07/22/05	3.3	80%	423,910	1.6			1.43	75.59	0.04	1.41
07/25/05	1.0	36%	426,060	1.5			0.39	75.99	0.01	1.42
07/29/05	4.0	99%	435,140	1.6			1.67	77.65	0.05	1.46
08/01/05	3.0	100%	441,790	1.5	25,000	490	1.39	79.04	0.03	1.49

**TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
08/05/05	3.4	82%	449,130	1.5			1.32	80.35	0.03	1.52
08/08/05	2.8	97%	455,200	1.5			1.09	81.44	0.03	1.55
08/12/05	3.3	81%	462,270	1.5			1.27	82.71	0.03	1.58
08/15/05	3.0	100%	468,700	1.5	18,000	540	0.96	83.67	0.03	1.61
08/19/05	3.9	99%	476,890	1.4			0.96	84.63	0.03	1.64
08/22/05	3.1	100%	483,190	1.4			0.74	85.37	0.02	1.66
08/29/05	7.0	100%	497,280	1.4			1.64	87.01	0.05	1.71
09/06/05	8.1	99%	499,380	0.2	10,000	310	0.25	87.26	0.01	1.72
09/09/05	2.8	99%	505,100	1.4			0.60	87.85	0.02	1.73
09/15/05	6.2	99%	517,140	1.4			1.25	89.11	0.03	1.77
09/19/05	4.0	100%	524,690	1.3			0.79	89.89	0.02	1.79
09/23/05	4.0	98%	533,140	1.5			0.88	90.77	0.02	1.81
09/26/05	2.1	74%	540,516	2.5			0.77	91.54	0.02	1.83
10/03/05	2.1	30%	543,336	0.9			0.29	91.84	0.01	1.84
10/10/05	4.9	70%	557,440	2.0	15,000	380	1.47	93.31	0.04	1.88
10/14/05	3.9	100%	557,860	0.1			0.06	93.36	0.00	1.88
10/17/05	3.1	100%	557,980	0.0			0.02	93.38	0.00	1.89
10/21/05	2.3	56%	558,100	0.0			0.02	93.39	0.00	1.89
10/24/05	3.2	100%	558,340	0.1			0.03	93.43	0.00	1.89
10/28/05	3.7	94%	562,391	0.8			0.54	93.97	0.01	1.90
10/31/05	3.1	100%	569,085	1.5			0.89	94.86	0.02	1.92
11/04/05	3.9	100%	577,073	1.4			1.07	95.92	0.02	1.94
11/07/05	3.1	100%	583,268	1.4	17,000	330	0.83	96.75	0.02	1.96
11/11/05	4.0	100%	590,939	1.3			1.18	97.93	0.02	1.98
11/14/05	3.1	100%	596,620	1.3			0.88	98.81	0.01	1.99
11/18/05	4.0	100%	603,850	1.3			1.12	99.93	0.02	2.01
11/21/05	3.0	99%	609,160	1.2			0.82	100.74	0.01	2.02
11/28/05	7.0	100%	621,840	1.3			1.96	102.70	0.03	2.05
12/02/05	3.2	80%	627,560	1.2			0.88	103.58	0.01	2.07

**TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/08/05	6.1	100%	638,590	1.2	20,000	260	1.70	105.28	0.03	2.10
12/12/05	3.9	100%	645,340	1.2			0.79	106.07	0.01	2.11
12/16/05	3.9	98%	652,310	1.3			0.81	106.88	0.01	2.12
12/19/05	3.0	99%	657,670	1.2			0.62	107.50	0.01	2.12
12/23/05	4.0	100%	664,650	1.2			0.81	108.31	0.01	2.13
12/30/05	7.0	100%	677,540	1.3			1.50	109.81	0.02	2.15
01/06/06	6.1	88%	690,030	1.4			1.45	111.27	0.02	2.17
01/09/06	0.1	4%	690,040	0.1			0.00	111.27	0.00	2.17
01/23/06	0.6	5%	691,940	2.0	7,900	78	0.22	111.49	0.00	2.17
01/27/06	3.9	98%	700,350	1.5			0.42	111.91	0.01	2.18
01/30/06	3.1	100%	707,110	1.5			0.34	112.25	0.01	2.18
03/29/06	1.1	2%	708,670	1.0	4,200	110	0.05	112.31	0.00	2.18
05/22/06	0.2	0%	708,950	0.8	6,300	210	0.01	112.32	0.00	2.18
05/23/06	0.8	85%	711,211	1.9			0.07	112.39	0.00	2.19
05/24/06	1.0	96%	714,250	2.2			0.10	112.49	0.00	2.19
06/08/06	0.1	0%	714,360	1.2			0.00	112.49	0.00	2.19
06/12/06	4.1	100%	725,143	1.8	1,300	17	0.96	113.45	0.01	2.20
06/20/06	7.9	100%	734,150	0.8			0.10	113.55	0.00	2.20
06/30/06	1.7	16%	736,605	1.0			0.03	113.57	0.00	2.20
Total	268		736,605	1.9			113.57		2.20	

Gallons discharged from 2/23/05 to 3/30/05 **172,040**
Gallons discharged from 3/30/05 to 6/30/05 **224,430**
Gallons discharged from 7/1/05 to 12/30/05 **281,070**
Gallons discharged from 1/1/06 to 6/30/06 **59,065**

Note: When analyte is not detected, laboratory reporting limit is used for concentration and mass removed calculations.

* Est. Mass TPH Removed (pounds) = Average influent conc. (µg/L) * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3.785 L/gallon

**TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA**

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. ($\mu\text{g/L}$) TPH-g	Influent Conc. ($\mu\text{g/L}$) Benzene	Est. Pounds Removed*	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
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Note: Extraction from well MW3 was discontinued on 15 July 2005.

TPH - Total Petroleum Hydrocarbons (measured as Total Petroleum Hydrocarbons as both gasoline and diesel as analyzed by EPA Method 8015 modified).

gpm - Gallons per minute.

$\mu\text{g/L}$ - Micrograms per liter.

NM - Not Measured.

Reviewer: RRao
Date: 11/19/06

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**TABLE 7 DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
02/23/05	0.0	0%	0	55	4,000			0.0	0.00	0.00	0.00
02/25/05	2.0	99%	149,448	52	4,000			211.7	0.06	2.56	0.00
02/28/05	3.0	100%	257,712	59	3,996	5,400	77	365.0	0.05	4.42	0.00
03/04/05	1.5	38%	85,878	39	NM			129.5	0.00	1.47	0.00
03/07/05	1.4	48%	65,583	32	3,996			98.9	0.00	1.12	0.00
03/11/05	4.0	98%	176,347	31	NM			265.9	0.01	3.02	0.00
03/14/05	3.1	100%	144,576	32	4,026			218.0	0.01	2.48	0.00
03/21/05	5.1	73%	233,645	32	NM			352.4	0.01	4.01	0.00
03/21/05	0.0	0%	0	0	0			0.0	0.00	0.00	0.00
03/23/05	0.6	30%	38,493	46	4,000	6,100	92	61.6	0.01	0.72	0.00
03/25/05	0.6	26%	26,082	32	4,000			32.2	0.02	0.35	0.00
03/28/05	2.6	94%	117,558	32	4,000	3,300	40	101.7	0.14	0.95	0.00
03/30/05	2.2	98%	185,496	59	NM	14,000	150	420.8	0.22	3.58	0.01
04/01/05	1.7	95%	76,923	32	4,000			174.5	0.09	1.48	0.00
04/04/05	1.3	45%	60,480	32	4,000			137.2	0.06	1.17	0.00
04/05/05	0.5	51%	23,247	32	4,000			52.1	0.02	0.46	0.00
04/07/05	1.3	64%	57,834	32	4,000			129.7	0.07	1.15	0.00
04/08/05	0.5	53%	24,759	32	4,000			55.5	0.03	0.49	0.00
04/11/05	0.5	18%	24,759	32	4,000			55.5	0.03	0.49	0.00
04/12/05	0.9	96%	43,092	32	4,000			96.6	0.04	0.86	0.00
04/14/05	2.1	100%	196,812	66	4,000			441.3	0.30	3.91	0.01
04/15/05	0.1	14%	6,237	32	4,000			14.0	0.01	0.12	0.00
04/18/05	0.0	1%	945	32	4,000	3,100	46	2.1	0.00	0.02	0.00
04/18/05	0.0	0%	0	32	4,000			0.0	0.00	0.00	0.00
04/20/05	1.5	76%	69,312	32	4,000			28.5	0.12	0.33	0.00
04/22/05	2.0	99%	91,008	32	1,978			37.4	0.16	0.43	0.00
04/27/05	0.7	13%	30,051	32	4,000			12.4	0.03	0.14	0.00
04/29/05	1.5	76%	68,418	32	3,984	37	0.77	0.7	0.06	0.01	0.00
05/02/05	1.3	44%	60,480	32	4,000			38.4	0.18	0.45	0.00
05/04/05	0.8	41%	36,666	32	NM			23.3	0.09	0.27	0.00
05/06/05	1.9	99%	163,548	59	3,982			103.7	0.05	1.21	0.00
05/09/05	1.5	47%	123,900	59	NM			78.6	0.04	0.91	0.00
05/11/05	0.0	1%	567	32	904			0.4	0.00	0.00	0.00
05/12/05	0.7	100%	70,092	66	NM			44.5	0.01	0.52	0.00
05/13/05	1.0	59%	45,927	32	824	4,800	72	57.8	0.00	0.67	0.00
05/18/05	2.5	47%	185,016	52	789			252.3	0.05	2.50	0.01
05/20/05	1.0	61%	47,628	32	884	5,600	61	70.0	0.01	0.59	0.00

**TABLE 7 DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
05/26/05	3.4	57%	156,114	32	816			178.5	0.00	1.51	0.00
05/31/05	5.2	99%	237,195	32	920			271.3	0.00	2.30	0.01
06/03/05	1.8	65%	80,514	32	782			92.1	0.01	0.78	0.00
06/09/05	4.2	70%	360,018	59	1,059	3,121	34	294.7	0.03	2.52	0.01
06/10/05	1.1	100%	97,350	59	971			56.4	0.00	0.49	0.00
06/13/05	1.9	63%	160,716	59	NM			93.2	0.01	0.81	0.00
06/17/05	0.3	7%	13,230	32	1,126			7.7	0.00	0.07	0.00
06/20/05	1.8	62%	63,504	24	1,218			36.8	0.01	0.32	0.00
06/23/05	2.2	77%	211,860	66	598			122.8	0.09	1.06	0.01
06/27/05	1.2	30%	53,487	32	741			31.0	0.03	0.27	0.00
06/30/05	1.3	45%	99,247	52	621			57.5	0.02	0.50	0.00
07/05/05	3.2	64%	241,145	52	NM			139.8	0.02	1.21	0.01
07/08/05	0.1	2%	5,664	59	NM			3.3	0.00	0.03	0.00
07/11/05	1.5	52%	113,568	52	179	1,300	15	38.7	0.01	0.35	0.00
07/15/05	4.0	94%	296,400	52	127			86.3	0.00	0.87	0.01
07/18/05	2.2	79%	209,088	66	191			60.9	0.00	0.62	0.01
07/22/05	3.3	80%	114,336	24	2,656			33.3	0.00	0.34	0.00
07/25/05	1.0	36%	38,064	26	891			11.1	0.00	0.11	0.00
07/29/05	4.0	99%	428,850	75	1,850			124.8	0.00	1.26	0.01
08/01/05	3.0	100%	126,846	29	436	920	14	30.6	0.00	0.36	0.00
08/05/05	3.4	82%	241,500	50	718			56.7	0.00	0.59	0.01
08/08/05	2.8	97%	183,816	46	396			43.1	0.00	0.45	0.01
08/12/05	3.3	81%	215,556	46	1,160			50.6	0.00	0.52	0.01
08/15/05	3.0	100%	205,860	47	417	870	10	47.0	0.00	0.42	0.01
08/19/05	3.9	99%	209,124	37	1,445			54.0	0.00	0.42	0.01
08/22/05	3.1	100%	183,270	41	440			47.3	0.00	0.37	0.01
08/29/05	7.0	100%	322,752	32	491			83.4	0.00	0.66	0.01
09/06/05	8.1	99%	197,880	17	521	1,100	10	51.1	0.00	0.40	0.01
09/09/05	2.8	99%	149,577	37	482			58.8	0.00	0.42	0.00
09/15/05	6.2	99%	320,112	36	516			125.9	0.00	0.91	0.01
09/19/05	4.0	100%	273,600	48	289			107.6	0.00	0.78	0.01
09/23/05	4.0	98%	230,160	40	300			90.5	0.00	0.65	0.01
09/26/05	2.1	74%	164,010	55	590			64.5	0.00	0.47	0.00
10/03/05	2.1	30%	110,160	36	328			43.3	0.12	0.31	0.00
10/10/05	4.9	70%	254,880	36	4,903	1,900	18	100.3	0.27	0.72	0.01
10/14/05	3.9	100%	204,765	37	9			123.5	0.00	0.77	0.01
10/17/05	3.1	100%	160,746	37	9			97.0	0.05	0.60	0.00
10/21/05	2.3	56%	100,116	31	9			60.4	0.07	0.38	0.00
10/24/05	3.2	100%	143,957	31	9			86.8	0.11	0.54	0.00
10/28/05	3.7	94%	159,485	30	934			96.2	0.12	0.60	0.00
10/31/05	3.1	100%	135,719	30	912			81.9	0.11	0.51	0.00
11/04/05	3.9	100%	164,280	30	804			99.1	0.05	0.62	0.01
11/07/05	3.1	100%	133,726	30	915	2,700	19	80.7	0.00	0.50	0.00
11/11/05	4.0	100%	207,612	37	833			111.6	0.00	1.62	0.01
11/14/05	3.1	100%	193,776	44	832			104.2	0.00	1.51	0.01
11/21/05	7.0	100%	453,870	45	1,044			244.0	0.00	3.55	0.01
11/28/05	7.0	100%	421,344	42	1,135			226.5	0.09	3.29	0.01
12/08/05	9.3	92%	591,910	44	930	1,400	58	217.3	0.20	4.62	0.02
12/12/05	3.9	100%	242,953	43	866			53.2	0.10	1.62	0.01
12/16/05	3.9	98%	233,604	42	430			51.2	0.07	1.56	0.01
12/19/05	3.0	99%	185,760	43	430			40.7	0.00	1.24	0.00
12/23/05	4.0	100%	234,270	41	430			51.3	0.00	1.56	0.01
12/30/05	7.0	100%	394,992	39	430			86.5	0.06	2.63	0.01
01/06/06	6.1	88%	336,105	39	260			73.6	0.05	2.24	0.01
01/23/06	0.8	5%	47,730	43	51			10.5	0.03	0.32	0.00
01/27/06	3.9	98%	249,216	44	50	270	7.7	54.6	0.26	1.66	0.01
01/30/06	3.1	100%	180,564	41	50			7.8	0.14	0.19	0.00
The catalytic oxidizer was shut down on 1/30/06 and replaced with a vapor phase carbon unit. The system was restarted on 5/22/06.											
05/22/06	0.2	0%	1,062	3	160	60	2.4	0.0	0.00	0.00	0.00
05/23/06	0.8	85%	3,582	3	226	230	7.6	0.1	0.00	0.00	0.00
05/24/06	1.0	96%	5,544	4	178	180	5.8	0.3	0.00	0.01	0.00
06/08/06	0.1	0%	270	3	128		0.0	0.0	0.00	0.00	0.00
06/12/06	4.1	100%	20,685	4	91	100	2.2	1.1	0.00	0.02	0.00
06/20/06	7.9	99%	34,038	3	200			1.8	0.00	0.02	0.00

**TABLE 7 DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA**

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
Cumulative Total/Average	265.3			38				9,021		98.9	

Note: When analyte is not detected, laboratory reporting limit is used for concentration and mass removed calculations.

^a Est. pounds/day removed/emitted TPH-g = Average Combined well conc.(ppmv) * 4.2(μg/L/ppmv) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 μg * 0.002205 lbs/g * 28.32 L/lb

^b Est. pounds/day removed/emitted Benzene = Average Combined well conc.(ppmv) * 3.25(μg/L/ppmv) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 μg * 0.002205 lbs/g * 28.32 L/lb

Cumulative Total - Total as measured since system start-up.

TPH-g - Total Petroleum Hydrocarbons as gasoline.

* Extraction from well MW3 was discontinued on 15 July 2005.

CFM - Cubic feet per minute.

ppmv - Parts Per Million by Volume.

Reviewer: RRno
Date: 11/19/06

TABLE 8 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	A	A	A
MW6	Q	S	S	S
MW7	Q	A	A	A

Q = Quarterly.
 S = Semiannual.
 A = Annual.

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.

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

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Date 12-22-06 Client LRM
 Site Address 327 34th St Oakland
 Job Number 061212-BA1 Technician B Bond

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Nut Inspected (explain below)
MW-1	X							
MW-2	X							
MW-3	X							
MW-4	X							
MW-5	X							
MW-6		X						
MW-7		X						

NOTES: _____

WELL GAUGING DATA

Project # 061212-BP1 Date 12-12-06 Client LRM

Site 327 34th St Oakland

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or 100	Notes
mw-1	820	2					20.32	30.47		
mw-2	809	2				21.46	31.75			
mw-3	822	2				21.308	32.00			
mw-4	817	2				20.03	27.70			
mw-5	826	2				23.08	26.55			
mw-6	800	2				16.93	26.60			
mw-7	735	2				15.21	34.50			

WELL MONITORING DATA SHEET

Project #: 061212-BCP1	Client: LRM
Sampler: B Pump	Start Date: 12-12-06
Well I.D.: MW-1	Well Diameter: ② 3 4 6 8
Total Well Depth: 30.47	Depth to Water Pre: 20.32 Post: 21.17
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump *W/strum*
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: _____ Pump Depth: _____ 50% = 22.35

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals or mL)	Observations
956	18.7	6.42	1240	>1000	0.91	34.1	2.0	
959	18.8	6.40	1203	>1000	0.52	45.3	3.5	
1002	18	6.39	1224	>1000	0.38	52.5	5.0	

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 5.0
Sampling Time: 1010	Sampling Date: 12-12-06
Sample I.D.: MW-1	Laboratory: KIFP
Analyzed for: TPH-G BTEX MTBE TPH-D	<u>Others</u> see COC
Equipment Blank I.D.: @	Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: <i>061212-BP1</i>	Client: <i>LRM</i>
Sampler: <i>B Hand</i>	Start Date: <i>12-12-06</i>
Well I.D.: <i>MW-2</i>	Well Diameter: <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <i>31.75</i>	Depth to Water Pre: <i>21.46</i> Post: <i>21.47</i>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> <i>PVE</i> <input type="checkbox"/> Grade	Flow Cell Type: <i>YS15JL</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump ~~Bladder Pump~~
 Sampling Method: ~~Dedicated Tubing~~ New Tubing Other *Peristaltic*
 Flow Rate: _____ Pump Depth: _____ *802 = 23.52*

Time	Temp. (<input checked="" type="radio"/> C or <input type="radio"/> F)	pH	Cond. (mS or <input checked="" type="radio"/> µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (<input checked="" type="radio"/> gals or <input type="radio"/> mL)	Observations
<i>1105</i>	<i>18.3</i>	<i>6.58</i>	<i>704</i>	<i>71000</i>	<i>1.4</i>	<i>-63.0</i>	<i>2.0</i>	<i>only</i>
<i>1108</i>	<i>18.3</i>	<i>6.59</i>	<i>786</i>	<i>71000</i>	<i>1.2</i>	<i>-69.4</i>	<i>3.5</i>	
<i>1111</i>	<i>18.2</i>	<i>6.61</i>	<i>821</i>	<i>71000</i>	<i>1.5</i>	<i>-70.0</i>	<i>5.0</i>	

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: <i>5.0</i>
Sampling Time: <i>1120</i>	Sampling Date: <i>12-12-06</i>
Sample I.D.: <i>MW-2</i>	Laboratory: <i>K1/P</i>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <i>see coc</i>	
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: 061212-BP1	Client: LRM
Sampler: B Prowl	Start Date: 12-12-06
Well I.D.: MW-3	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: 32.00	Depth to Water Pre: 21.38 Post: 21.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVE Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other: Byline
 Flow Rate: _____ Pump Depth: _____ Sol: 23.50

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1043	18.3	6.68	879	>1000	0.7	-53.2	2.0	Shes
1047	18.5	6.71	899	>1000	0.7	-67.2	4.0	L
1057	18.5	6.72	912	>1000	0.6	-75.5	5.5	

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 5.5
Sampling Time: 1100	Sampling Date: 12-12-06
Sample I.D.: MW-3	Laboratory: 1611 ^{FF}
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See Loc	
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

WELL MONITORING DATA SHEET

Project #: 061212-BP1	Client: LRM
Sampler: B P/w	Start Date: 12-12-06
Well I.D.: Mw-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 27.70	Depth to Water Pre: 20.03 Post: 20.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YS 1 SJZ</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump waters
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: _____ Pump Depth: _____ Sub = 21.56

Time	Temp. (C or F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1020	18.8	6.61	844	>1600	0.2	-1.0	1.5	
1023	18.8	6.60	827	>1000	0.7	-1.2	3.0	
1025	18.8	6.61	847	>1000	0.9	3.2	4.0	

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 4.0
Sampling Time: 1030	Sampling Date: 12-12-06
Sample I.D.: Mw-4	Laboratory: RIFF
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See coc
Equipment Blank I.D.: @	Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: 061212-BP1	Client: LRM
Sampler: B Ground	Start Date: 12-12-06
Well I.D.: mw-6	Well Diameter: ② 3 4 6 8
Total Well Depth: 26.60	Depth to Water Pre: 16.93 Post: 16.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type: 451 5TB

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump water
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: _____ Pump Depth: _____ SL = 18.86

Time	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
911	18.9	6.63	737	>1000	0.3	-127.8	2.0	
914	18.9	6.65	772	>1000	0.5	-140.7	3.5	
917	18.9	6.68	783	>1000	NOT AVAILABLE	748.1	5.0	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 5.0
Sampling Time: 925	Sampling Date: 12-12-06
Sample I.D.: MW-6	Laboratory: FIFIT
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Coc
Equipment Blank I.D.: @	Duplicate I.D.:

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB **KIFF** DHS # _____
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
 EPA RWQCB REGION
 LIA
 OTHER

CHAIN OF **BTS # 061212-BP1**

CLIENT **LRM Consulting, Inc.**

SITE **327 34th Street**
Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH-Gas / BTEX	MTBE	TEPH (Diesel & Motor Oil)							
X	X	X							
X	X	X							
X	X	X							
X	X	X							
X	X	X							

SPECIAL INSTRUCTIONS

Invoice to: **LRM Consulting, Inc.**
 Attn: **Ramkishore Rao**
 Report to: **Ramkishore Rao**

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH-Gas / BTEX	MTBE	TEPH (Diesel & Motor Oil)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	12-12	1010	W	6		X	X	X				01
MW-2		1120				X	X	X				02
MW-3		1100				X	X	X				03
MW-4		1030				X	X	X				04
MW-6		925				X	X	X				05

SAMPLING COMPLETED	DATE 12-12	TIME 1220	SAMPLING PERFORMED BY B Prasad	RESULTS NEEDED NO LATER THAN Standard TAT
RELEASED BY [Signature]	DATE 12/26/06	TIME 1715	RECEIVED BY [Signature]	DATE 12/26/06 TIME 1715
RELEASED BY [Signature]	DATE 12/13/06	TIME 1020	RECEIVED BY [Signature]	DATE _____ TIME _____
RELEASED BY [Signature]	DATE _____	TIME _____	RECEIVED BY Kiff	DATE 12/30/06 TIME 1027
SHIPPED VIA _____	DATE SENT _____	TIME SENT _____	COOLER # _____	

APPENDIX C

**LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY
DOCUMENTATION**



Report Number : 53856

Date : 12/21/2006

Ramkishore Rao
LRM Consulting, Inc.
1534 Plaza Lane, #145
Burlingame, CA 94010

Subject : 5 Water Samples
Project Name : 327 34th Street, Oakland, CA
Project Number : 061212-BP1

Dear Mr. Rao,

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,



Jbel Kiff



Report Number : 53856
Date : 12/21/2006

Subject : 5 Water Samples
Project Name : 327 34th Street, Oakland, CA
Project Number : 061212-BP1

Case Narrative

Hydrocarbons reported as TPH as Motor Oil do not exhibit a typical Motor Oil chromatographic pattern for sample MW-6. There are discrete peaks which may or may not be petroleum related.

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-2 and MW-3.

Approved By: _____

A handwritten signature in black ink, appearing to read "Joel Kiff", is written over a horizontal line. Below the line, the name "Joel Kiff" is printed in a small, sans-serif font.



Report Number : 53856

Date : 12/21/2006

Project Name : 327 34th Street, Oakland, CA

Project Number : 061212-BP1

Sample : MW-1

Matrix : Water

Lab Number : 53856-01

Sample Date :12/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Methyl-t-butyl ether (MTBE)	9.4	0.50	ug/L	EPA 8260B	12/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/15/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/15/2006
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/15/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/15/2006
Octacosane (Diesel Silica Gel Surr)	87.0		% Recovery	M EPA 8015	12/15/2006

Sample : MW-2

Matrix : Water

Lab Number : 53856-02

Sample Date :12/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	850	10	ug/L	EPA 8260B	12/14/2006
Toluene	4400	10	ug/L	EPA 8260B	12/14/2006
Ethylbenzene	1100	10	ug/L	EPA 8260B	12/14/2006
Total Xylenes	8900	10	ug/L	EPA 8260B	12/14/2006
Methyl-t-butyl ether (MTBE)	110	10	ug/L	EPA 8260B	12/14/2006
TPH as Gasoline	45000	1000	ug/L	EPA 8260B	12/14/2006
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/14/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/14/2006
TPH as Diesel (w/ Silica Gel)	< 10000	10000	ug/L	M EPA 8015	12/15/2006
TPH as Motor Oil (w/ Silica Gel)	360	100	ug/L	M EPA 8015	12/15/2006
Octacosane (Diesel Silica Gel Surr)	108		% Recovery	M EPA 8015	12/15/2006

Approved By:

Jcel Kiff



Report Number : 53856

Date : 12/21/2006

Project Name : 327 34th Street, Oakland, CA

Project Number : 061212-BP1

Sample : MW-3

Matrix : Water

Lab Number : 53856-03

Sample Date :12/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1400	5.0	ug/L	EPA 8260B	12/14/2006
Toluene	2200	5.0	ug/L	EPA 8260B	12/14/2006
Ethylbenzene	670	5.0	ug/L	EPA 8260B	12/14/2006
Total Xylenes	2600	5.0	ug/L	EPA 8260B	12/14/2006
Methyl-t-butyl ether (MTBE)	130	5.0	ug/L	EPA 8260B	12/14/2006
TPH as Gasoline	21000	500	ug/L	EPA 8260B	12/14/2006
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/14/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/14/2006
TPH as Diesel (w/ Silica Gel)	< 1500	1500	ug/L	M EPA 8015	12/21/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/21/2006
Octacosane (Diesel Silica Gel Surr)	90.5		% Recovery	M EPA 8015	12/21/2006

Sample : MW-4

Matrix : Water

Lab Number : 53856-04

Sample Date :12/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	11	0.50	ug/L	EPA 8260B	12/15/2006
Toluene	0.77	0.50	ug/L	EPA 8260B	12/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Methyl-t-butyl ether (MTBE)	260	0.50	ug/L	EPA 8260B	12/15/2006
TPH as Gasoline	230	50	ug/L	EPA 8260B	12/15/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/15/2006
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/15/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/15/2006
Octacosane (Diesel Silica Gel Surr)	102		% Recovery	M EPA 8015	12/15/2006

Approved By:

Joel Kiff



Report Number : 53856

Date : 12/21/2006

Project Name : 327 34th Street, Oakland, CA

Project Number : 061212-BP1

Sample : MW-6

Matrix : Water

Lab Number : 53856-05

Sample Date :12/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.67	0.50	ug/L	EPA 8260B	12/15/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/15/2006
Methyl-t-butyl ether (MTBE)	89	0.50	ug/L	EPA 8260B	12/15/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/15/2006
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/15/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/15/2006
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/19/2006
TPH as Motor Oil (w/ Silica Gel)	230	100	ug/L	M EPA 8015	12/19/2006
Octacosane (Diesel Silica Gel Surr)	127		% Recovery	M EPA 8015	12/19/2006

Approved By:

Joe Kiff


QC Report : Method Blank Data

Project Name : **327 34th Street, Oakland, CA**

Project Number : **061212-BP1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/13/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/13/2006
Octacosane (Diesel Silica Gel Surr)	101		%	M EPA 8015	12/13/2006
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/18/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/18/2006
Octacosane (Diesel Silica Gel Surr)	105		%	M EPA 8015	12/18/2006
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	12/21/2006
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	12/21/2006
Octacosane (Diesel Silica Gel Surr)	88.8		%	M EPA 8015	12/21/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/14/2006
Toluene - d8 (Surr)	98.3		%	EPA 8260B	12/14/2006
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	12/14/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/14/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/14/2006
Toluene - d8 (Surr)	102		%	EPA 8260B	12/14/2006
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/14/2006

Approved By:  _____
 Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 327 34th Street, Oakland,

Project Number : 061212-BP1

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 as Diesel	Blank	<50	1000	1000	1070	1010	ug/L	M EPA 8015	12/13/06	107	101	6.27	70-130	25
TPH as Diesel	Blank	<50	1000	1000	1010	964	ug/L	M EPA 8015	12/18/06	101	96.4	4.80	70-130	25
TPH as Diesel	Blank	<50	1000	1000	823	860	ug/L	M EPA 8015	12/21/06	82.3	86.0	4.28	70-130	25
Benzene	53861-08	<0.50	39.8	39.7	38.8	38.8	ug/L	EPA 8260B	12/14/06	97.3	97.8	0.534	70-130	25
Toluene	53861-08	<0.50	39.8	39.7	39.3	39.1	ug/L	EPA 8260B	12/14/06	98.7	98.6	0.176	70-130	25
Tert-Butanol	53861-08	<5.0	199	198	189	191	ug/L	EPA 8260B	12/14/06	95.1	96.5	1.45	70-130	25
Methyl-t-Butyl Ether	53861-08	<0.50	39.8	39.7	40.0	40.6	ug/L	EPA 8260B	12/14/06	100	102	1.86	70-130	25
Benzene	53884-04	<0.50	40.0	40.0	37.6	36.5	ug/L	EPA 8260B	12/15/06	94.1	91.3	2.96	70-130	25
Toluene	53884-04	<0.50	40.0	40.0	39.3	38.9	ug/L	EPA 8260B	12/15/06	98.3	97.2	1.11	70-130	25
Tert-Butanol	53884-04	<5.0	200	200	201	201	ug/L	EPA 8260B	12/15/06	101	101	0.0461	70-130	25
Methyl-t-Butyl Ether	53884-04	<0.50	40.0	40.0	41.6	42.0	ug/L	EPA 8260B	12/15/06	104	105	1.13	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : 327 34th Street, Oakland,

Project Number : 061212-BP1

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/14/06	99.0	70-130
Toluene	40.0	ug/L	EPA 8260B	12/14/06	99.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/14/06	92.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/14/06	106	70-130
Benzene	40.0	ug/L	EPA 8260B	12/14/06	85.6	70-130
Toluene	40.0	ug/L	EPA 8260B	12/14/06	89.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/14/06	87.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/14/06	93.1	70-130

KIFF ANALYTICAL, LLC

Approved By:



 Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

BLAINE

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 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

KIFF

53856

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER

RWQCB REGION

CHAIN OF
 BTS # 061212-BP1

CLIENT
 LRM Consulting, Inc.

SITE
 327 34th Street
 Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH-Gas / BTEX

MTBE

TEPH (Diesel & Motor Oil)

SPECIAL INSTRUCTIONS

Invoice to: LRM Consulting, Inc.
 Attn: Ramkishore Rao
 Report to: Ramkishore Rao

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H ₂ O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH-Gas / BTEX	MTBE	TEPH (Diesel & Motor Oil)										ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
MW-1	12-12	1010	L	6		X	X	X														01
MW-2		1120				X	X	X														02
MW-3		1100				X	X	X														03
MW-4		1030				X	X	X														04
MW-6		925				X	X	X														05

SAMPLING COMPLETED DATE 12-12 TIME 1220 SAMPLING PERFORMED BY B Prasad RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY [Signature] DATE 12/26/06 TIME 1715 RECEIVED BY [Signature] DATE 12/26/06 TIME 1715

RELEASED BY [Signature] DATE 12/13/06 TIME 1020 RECEIVED BY [Signature] DATE [] TIME []

RELEASED BY [Signature] DATE [] TIME [] RECEIVED BY Jason K. Anderson Kiff Analyst DATE 12/30/06 TIME 1027

SHIPPED VIA DATE SENT TIME SENT COOLER #

SAMPLE RECEIPT
 Temp. C 2.6 Therm. ID# JRS
 Initial JRS Date 12/30/06
 Time 1335 Coolant present: Yes