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By Alameda County Environmental Health at 2:23 pm, Oct 14, 2013

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

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

Dear Ms. Jakub:

This enclosed report has been prepared by LRM Consulting, Inc. on behalf of the Strough Family Trust. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Linda L. Strough', with a large, stylized flourish at the end.

Linda L. Strough, Trustee

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

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



**WELL INSTALLATION AND
REDUCED THIRD QUARTER 2013
GROUNDWATER MONITORING REPORT**

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

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

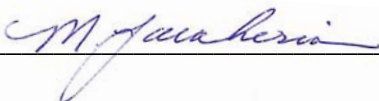
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Mehrdad Javaherian, Ph.D., MPH, PE, LEED®GA



October 2013



TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 GENERAL SITE INFORMATION	2
1.2 SITE CONTACTS.....	2
2.0 WELL INSTALLATION ACTIVITIES.....	3
3.0 REDUCED GROUNDWATER MONITORING EVENT	3
3.1 GROUNDWATER GAUGING	4
3.2 WELL PURGING	4
3.3 GROUNDWATER SAMPLING	4
4.0 MONITORING RESULTS	4
4.1 SEPARATE-PHASE HYDROCARBON MONITORING.....	4
4.2 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT	4
4.3 GROUNDWATER ANALYTICAL RESULTS.....	5
5.0 PLANNED ACTIVITIES	6
5.1 REMEDIATION RELATED ACTIVITIES.....	6
5.2 PLANNED MONITORING ACTIVITIES.....	6
6.0 REFERENCES	7



List of Tables

Table 1 – Cumulative Groundwater Elevation and Analytical Data

List of Figures

Figure 1 – Groundwater Elevation Contour Map and Rose Diagram-Third Quarter 2013
Monitoring Event

List of Appendices

Appendix A – DPE-1 Well Log

Appendix B – Laboratory Analytical Report for Soil Samples

Appendix C – Groundwater Monitoring Field Forms

Appendix D – Laboratory Analytical Report for Groundwater Samples



1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, LRM Consulting, Inc. (LRM) prepared this *Well Installation and Reduced Third Quarter 2013 Groundwater Monitoring Report* for the former Val Strough Chevrolet located in Oakland, California. This report documents the procedures and findings of well installation activities in support of ongoing high-vacuum dual-phase vapor extraction (DPE) activities, and a reduced round of third-quarter 2013 groundwater monitoring event.

Since June 2012, remediation of residual petroleum hydrocarbons has been ongoing at the site through operation of the DPE system connected to wells MW2 and MW3, with a short-term and sporadic (weekends only for a period of one month) connection of well MW9A to the DPE system per County approval. Based on operation and maintenance (O&M) sampling results summarized in the 2nd Quarter 2013 Groundwater Monitoring Report for the site (LRM, 2013b), a total cumulative mass of 2,800.4 pounds of TPH-g in vapor phase has been removed between June 2012 through June 2013. During this period, an additional 24.98 pounds of TPH-g has been removed in liquid phase. These totals include an estimated 1,229 pounds and 8 pounds of TPH-g removed in vapor and liquid phases, respectively, throughout the second quarter of 2013 alone.

While hydrocarbon concentrations in MW2 and MW3 have reduced significantly, elevated hydrocarbon concentrations have persisted at MW9A, prompting the need for installation of extraction well DPE-1 immediately adjacent to MW9A for connection to the DPE system and associated operations. The well installation and reduced monitoring activities documented herein were performed in concert with approval from the Alameda County Health Care Services Agency ([County], 2013a¹ and 2013b²) and with the intent of targeting remediation efforts over the next six months toward achieving optimal hydrocarbon mass removal such that one year of post-remediation monitoring may be initiated thereafter (LRM, 2013a³).

The scope of well installation activities included installing well DPE-1 for dual-phase extraction, connecting the well to the existing DPE system trenching, and conducting a reduced round of groundwater monitoring consisting of sampling and gauging of existing wells MW2, MW3, and MW9A, plus the newly installed well DPE-1 prior to initiation of DPE activities using DPE-1.

¹ County, 2013a. Letter from Barbara Jakub to Ms. Linda Strough and Mr. Bruce Bercovich, Former Val Strough Chevrolet, August 30th.

² County, 2013b. Email from Barbara Jakub to Mehrdad Javaherian, Val Strough Chevrolet Sample Frequency Update, September 4th

³ LRM, 2013a. Proposed Modifications to Ongoing Dual Phase Extraction and Monitoring Activities. Former Val Strough Chevrolet Site, July 10th.



1.1 General Site Information

Site name: Former Val Strough Chevrolet
Site address: 327 34th Street, Oakland, California
Current property owner: Strough Family Trust of 1983
Current site use: Automotive Dealership and Service Center
Current phase of project: Groundwater monitoring and evaluation of need and approaches for additional remediation
Tanks at site: Two former tanks (1 gasoline, 1 waste-oil) removed in 1993
Number of wells: 12 (all onsite)
Site ID #: 3035
RO #: 0000134

1.2 Site Contacts

Consultant: Mehrdad Javaherian, Ph.D., MPH, PE, LEED[®] GA
LRM Consulting, Inc.
1534 Plaza Lane, # 145
Burlingame, CA 94010
(415) 706-8935, mehrdad@lrm-consulting.com

Regulatory agency: Dilan Roe
Alameda County Health Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6746

2.0 WELL INSTALLATION ACTIVITIES

On September 20th, 2013, well DPE-1 was installed at the site at approximately 5 feet away from existing monitoring well MW9A (see Figure 1). The well was installed using a direct push rig to allow for soil sample collection, and then completed with a hollow stem auger in accordance to permit number W2013-0734 from the Alameda County Public Works Agency. DPE-1 was installed as a 4-inch well with a PVC casing down to a depth of 29 feet below ground surface (bgs).

Lithologic observations confirmed those from past installations of adjacent wells, including the consistent presence of silt across the soil column. Based on field observations and input from the County (2013a), the well was screened from 14 feet bgs to 29 feet bgs, with first encountered groundwater occurring at approximately 22 feet bgs. The well log containing observed lithology and well construction details is included as Appendix A herein.

Per the County's request, soil samples were collected at 5 and 10 feet bgs, indicating the predominant absence of hydrocarbons at above detection limits (see Appendix B); the sole detections were limited to TPH-d at 3.7 mg/kg and 1.5 mg/kg at 5 and 10 feet bgs, respectively. Worth noting is that the investigation derived waste (IDW) drum sample contained the highest concentration of hydrocarbons in soil (TPH-g at 850 mg/kg- see Appendix B), as the IDW sample also represented saturated soils beneath the water table where elevated hydrocarbons are known to be present in dissolved phase.

Upon completion of the well installation activities, DPE-1 was connected via piping to the existing DPE system trenching at the site.

3.0 REDUCED GROUNDWATER MONITORING EVENT

The scope of work for the reduced third quarter 2013 groundwater monitoring event is summarized as follows:

- Checking wells for SPHs.
- Gauging the depth to groundwater in the reduced set of wells sampled this quarter (see below).
- Purging the monitoring wells prior to sampling.
- Collecting and analyzing groundwater samples from wells MW2, MW3, MW9A, and newly installed extraction well DPE-1.
- Evaluating the data and preparing this brief technical report to summarize the well installation and monitoring activities.
-



3.1 Groundwater Gauging

For this round of monitoring, groundwater gauging was performed for the four onsite wells referenced above. 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. Field data forms are presented in Appendix C, indicating the absence of SPHs within the residual source area during this round of monitoring.

3.2 Well Purging

Following well gauging, three well casing volumes of water were purged from wells scheduled to be sampled, and field parameters including temperature, pH, specific conductance, turbidity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured; these data are summarized in Appendix C.

3.3 Groundwater Sampling

After purging, groundwater was collected at each well scheduled to be 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.

The laboratory analytical report and chain-of-custody documentation are presented in Appendix D.

4.0 MONITORING RESULTS

4.1 Separate-Phase Hydrocarbon Monitoring

The wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPHs were not detected during this round of monitoring.

4.2 Groundwater Elevation and Hydraulic Gradient

The groundwater elevation contour map (Figure 2) for this monitoring event was constructed based on depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 1.

On September 24, 2013, the depth to groundwater beneath the site ranged from 15.42 (MW8) to 23.84 (MW5) feet bgs (Table 1). Using the results from the second quarter 2013 monitoring event, the hydraulic gradient is estimated at an average of 0.009 ft/ft, with a general flow direction away from the residual source area toward the southwest (see Figure 1).

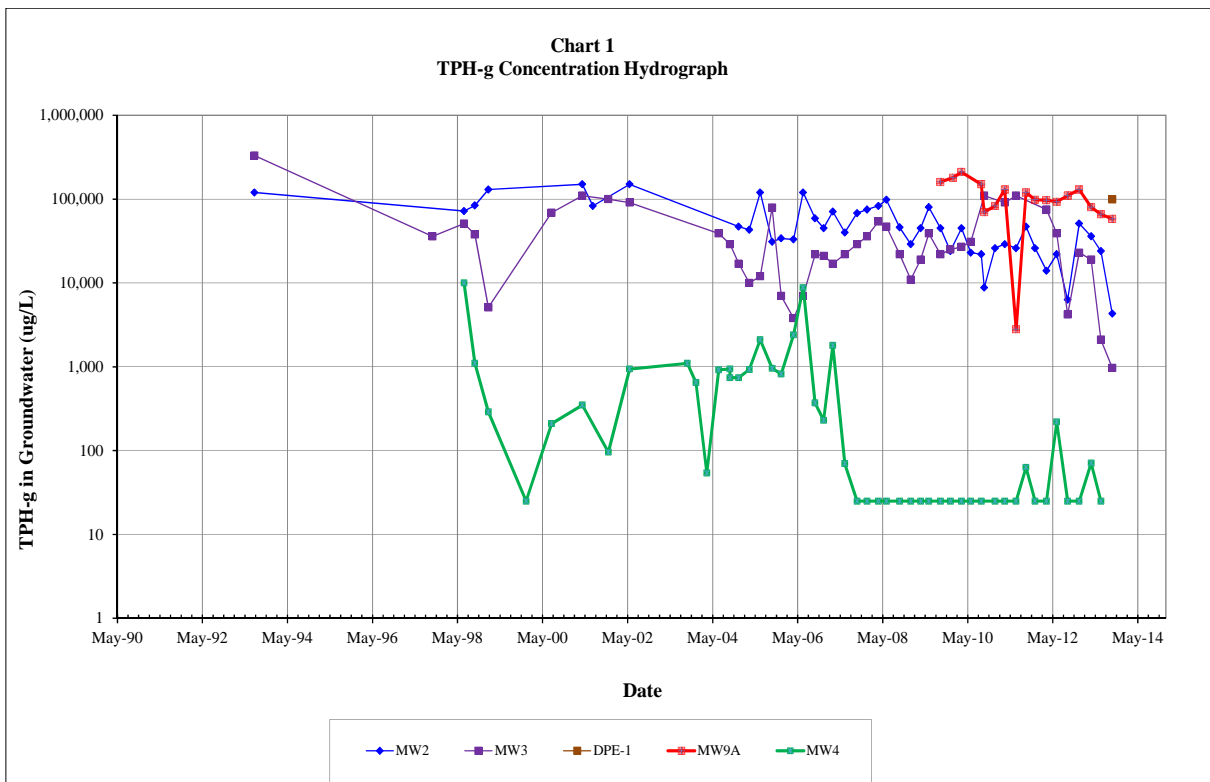
4.3 Groundwater Analytical Results

On June 24, 2013, groundwater samples were collected from wells MW2, MW3, MW9A, MW9B, and DPE-1 and analyzed by Kiff Analytical Inc. of Davis, California for TPH-g, BTEX, and MTBE by U.S. Environmental Protection Agency (EPA) Method 8260B and for TPH-d and TPH-mo by modified EPA Method 8015 with silica gel cleanup.

Current and historical petroleum hydrocarbon analytical results are presented in Table 2. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix D.

As indicated on Table 1, the results of sampling during this reduced 3rd Quarter 2013 groundwater monitoring event indicate significant hydrocarbon concentration reductions at MW2 (TPH-g reduced from 24,000 ug/L to 4,300 ug/L) and MW3 (2,100 ug/L to 970 ug/L) over the past quarter alone; both of these wells have been connected to the DPE system over the past 15 months. Conversely, at MW9A and the newly installed DPE-1, hydrocarbon concentrations remain at significantly higher levels, with TPH-g concentrations of 58,000 ug/L and 99,000 ug/L, respectively.

The chart below depicts TPH-g concentration trends for wells MW2, MW3, MW9A, and the newly installed extraction well DPE-1 located within the residual source area, and MW4 located approximately 50 feet downgradient of the residual source area. This chart shows the continued decline in hydrocarbon concentrations at residual source area wells MW2 and MW3, and the need for DPE application to the MW9A area (i.e. via newly installed well DPE-1).





5.0 PLANNED ACTIVITIES

5.1 Remediation Related Activities

Remediation activities at the site, including DPE operations and associated O&M activities will continue through the 4th Quarter 2013, with newly installed well DPE-1 connected to the DPE system. Per concurrence from the County (2013b), groundwater sampling in December 2013 (i.e., 4th Quarter 2013 monitoring event) will be limited to sampling of wells MW9A and DPE-1, with reporting of results to be included with the 1st Quarter 2014 groundwater monitoring event.

Unless reductions in hydrocarbon mass removal rates from the DPE system measured during O&M events and reduced concentrations in MW9A are observed in December 2013, DPE operations will continue through March 2014. At that point, a complete monitoring event will be conducted in support of establishing a basis for DPE system termination and initiation of one year of post-remediation quarterly monitoring (County, 2013b).

5.2 Planned Monitoring Activities

Per the above rationale, the reduced 4th Quarter 2013 monitoring event will consist of sampling of MW9A and DPE-1 in December 2013, with reporting to occur as part of the 1st Quarter 2014 groundwater monitoring event.



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TABLE

TABLE 1 . CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW1	07/27/93	100.00	a 20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--	
MW1	10/02/97	100.00	a 21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<2.0	--	
MW1	06/30/98	100.00	a 18.21	81.79	0.00	<0.50	<0.50	2.1	0.6	84	--	--	2.1	--	
MW1	07/29/98	100.00	a 18.74	81.26	0.00	--	--	--	--	--	--	--	--	--	
MW1	08/26/98	100.00	a 19.28	80.72	0.00	--	--	--	--	--	--	--	--	--	
MW1	10/01/98	100.00	a 19.93	80.07	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--	
MW1	10/30/98	100.00	a 20.22	79.78	0.00	--	--	--	--	--	--	--	--	--	
MW1	11/30/98	100.00	a 19.99	80.01	0.00	--	--	--	--	--	--	--	--	--	
MW1	12/28/98	100.00	a 19.81	80.19	0.00	--	--	--	--	--	--	--	--	--	
MW1	01/25/99	100.00	a 19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--	
MW1	02/26/99	100.00	a 17.18	82.82	0.00	--	--	--	--	--	--	--	--	--	
MW1	03/24/99	100.00	a 17.28	82.72	0.00	--	--	--	--	--	--	--	--	--	
MW1	05/12/99	100.00	a 17.91	82.09	0.00	--	--	--	--	--	--	--	--	--	
MW1	12/15/99	100.00	a 21.01	78.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	
MW1	03/20/00	100.00	a 16.25	83.75	0.00	--	--	--	--	--	--	--	--	--	
MW1	07/20/00	100.00	a 19.63	80.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	3.4	--	
MW1	10/11/00	100.00	a 20.80	79.20	0.00	--	--	--	--	--	--	--	--	--	
MW1	04/10-11/01	100.00	a 18.81	81.19	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	1.2	--	
MW1	07/10/01	100.00	a 20.51	79.49	0.00	--	--	--	--	--	--	--	--	--	
MW1	11/20/01	64.69	b 21.36	43.33	0.00	<0.50	1.3	<0.50	0.81	<50	<50	<300	<2.0	--	
MW1	02/19/02	64.69	b 18.95	45.74	0.00	--	--	--	--	--	--	--	--	--	
MW1	05/21/02	64.69	b 19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	--	
MW1	06/27/03	64.69	b 19.93	44.76	0.00	--	--	--	--	--	--	--	--	--	
MW1	09/29/03	64.69	b 21.24	43.45	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW1	12/12/03	64.69	b 21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<0.50	--	
MW1	03/15/04	64.69	b 18.18	46.51	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW1	06/24/04	64.69	b 20.48	44.21	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW1	09/29/04	64.69	b 21.37	43.32	0.00	<0.50	0.51	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW1	12/13/04	64.69	b 20.63	44.06	0.00	--	--	--	--	--	--	--	--	--	
MW1	03/14/05	64.69	b 18.69	46.00	0.00	<0.50	<0.50	<0.50	<1.0	<50	73	<500	<0.50	--	
MW1	06/15/05	64.69	b 20.32	44.37	0.00	--	--	--	--	--	--	--	--	--	
MW1	09/26/05	64.69	b 22.10	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW1	12/12/05	64.69	b 22.39	42.30	0.00	--	--	--	--	--	--	--	--	--	
MW1	03/29/06	64.69	b 15.24	49.45	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	74	--	
MW1	06/19/06	64.69	b 18.27	46.42	0.00	--	--	--	--	--	--	--	--	--	
MW1	09/29/06	64.69	b 20.06	44.63	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	7.9	--	
MW1	12/12/06	64.69	b 20.32	44.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	9.4	--	
MW1	03/01/07	64.69	b 18.68	46.01	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	3.5	--	
MW1	06/12/07	64.69	b 20.28	44.41	0.00	--	--	--	--	--	--	--	--	--	
MW1	09/25/07	64.69	b 21.37	43.32	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	1.8	--	
MW1	12/20/07	64.69	b 21.48	43.21	0.00	--	--	--	--	--	--	--	--	--	
MW1	03/26/08	64.69	b 20.98	43.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW1	06/03/08	64.69	b 20.70	43.99	0.00	--	--	--	--	--	--	--	--	--	
MW1	09/25/08	64.69	b 22.30	42.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.57	<5.0	
MW1	12/29/08	64.69	b 21.77	42.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW1	03/24/09	64.71	l 18.68	46.03	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW1	06/02/09	64.71	l 19.60	45.11	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW1	09/10/09	64.71	l 21.20	43.51	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW1	12/04/09	64.71	l 22.86	41.85	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW1	03/10/10	64.71	l 21.06	43.65	0.00	<0.50	0.97	<0.50	1.6	<50	<50	<100	<0.50	--	

TABLE 1 . CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW1	05/28/10	64.71	1	21.19	43.52	0.00	--	--	--	--	--	--	--	--	--
MW1	08/26/10	64.71	1	21.82	42.89	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW1	12/22/10	64.71	1	21.42	43.29	0.00	--	--	--	--	--	--	--	--	--
MW1	03/16/11	64.71	1	19.18	45.53	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW1	03/16/11	64.71	1	19.18	45.53	0.00	--	--	--	--	--	--	--	--	--
MW1	06/21/11	64.71	1	19.18	45.53	0.00	--	--	--	--	--	--	--	--	--
MW1	09/14/11	64.71	1	20.87	43.84	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW1	12/01/11	64.71	1	21.69	43.02	0.00	--	--	--	--	--	--	--	--	--
MW1	03/08/12	64.71	1	21.51	43.20	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW1	06/04/12	64.71	1	19.31	45.40	0.00	--	--	--	--	--	--	--	--	--
MW1	09/06/12	64.71	1	22.10	42.61	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW1	12/14/12	64.71	1	20.42	44.29	0.00	--	--	--	--	--	--	--	--	--
MW1	03/27/13	64.71	1	21.03	43.68	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW1	06/18/13	64.71	1	21.55	43.16	0.00	--	--	--	--	--	--	--	--	--
MW1	09/24/13	64.71	1	21.99	42.72	0.00	--	--	--	--	--	--	--	--	--
MW2	07/27/93	101.27	a	22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000	--	--	--	--
MW2	10/02/97	101.27	a	22.91	78.36	0.43	*	*	*	*	*	*	*	*	--
MW2	06/30/98	101.27	a	19.69	81.58	0.45	7,300	18,000	2,500	15,600	72,000	--	--	5,500	--
MW2	07/29/98	101.27	a	20.11	81.16	0.29	--	--	--	--	--	--	--	--	--
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	--
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	--	--	--	--	--	--	--	--	--
MW2	01/25/99	101.27	a	20.80	80.47	0.01	9,000	26,000	3,800	27,500	130,000	--	--	5,800	--
MW2	02/26/99	101.27	a	18.00	83.27	sheen	--	--	--	--	--	--	--	--	--
MW2	03/24/99	101.27	a	18.27	83.00	trace	--	--	--	--	--	--	--	--	--
MW2	05/12/99	101.27	a	19.08	82.19	trace	--	--	--	--	--	--	--	--	--
MW2	12/15-16/99	101.27	a	22.42	78.85	0.025	*	*	*	*	*	*	*	*	--
MW2	03/20/00	101.27	a	17.09	84.18	0.026	--	--	--	--	--	--	--	--	--
MW2	07/20/00	101.27	a	20.86	80.41	0.017	*	*	*	*	*	*	*	*	--
MW2	10/11/00	101.27	a	22.10	79.17	0.00	--	--	--	--	--	--	--	--	--
MW2	04/10-11/01	101.27	a	19.98	81.29	0.00	8,000	22,000	2,600	23,500	150,000	1,500	<600	3,600	--
MW2	07/10/01	101.27	a	21.85	79.42	0.00	5,900	15,000	2,300	12,100	83,000	5,700	<1,500	2,800	--
MW2	11/20/01	65.95	b	22.75	43.20	0.00	--	--	--	--	--	--	--	--	--
MW2	02/19/02	65.95	b	20.12	45.83	0.00	--	--	--	--	--	--	--	--	--
MW2	05/21/02	65.95	b	21.10	44.85	0.00	8,600	25,000	3,500	26,000	150,000	31,000	<3,000	4,800	--
MW2	06/27/03	65.95	b	21.48	44.47	0.35	--	--	--	--	--	--	--	--	--
MW2	09/29/03	65.95	b	23.04	42.91	0.48	*	*	*	*	*	*	*	*	--
MW2 ^e	12/12/03	65.95	b	22.75	43.31	0.16	*	*	*	*	*	*	*	*	--
MW2 ^e	03/15/04	65.95	b	19.24	46.72	0.01	*	*	*	*	*	*	*	*	--
MW2 ^e	06/24/04	65.95	b	22.10	44.06	0.31	*	*	*	*	*	*	*	*	--
MW2 ^e	09/29/04	65.95	b	22.81	43.14	sheen	*	*	*	*	*	*	*	*	--
MW2 ^e	12/13/04	65.95	b	22.06	43.95	0.08	3,700	12,000	1,900	10,000	47,000	2,600	<500	1,200	--
MW2 ^j	03/14/05	65.95	b	25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000	<5,000	<200	--
MW2	06/15/05	65.95	b	21.14	44.81	0.00	2,900	15,000	2,400	22,000	120,000	13,000	<2,500	810	--
MW2	07/18/05	65.95	b	NM	NC	NM	2,700	13,000	1,800	15,000	120,000	17,000	--	530	--
MW2	09/26/05	65.95	b	22.93	43.02	0.00	570	4,000	620	6,200	31,000	63,000	28,000	<50	--
MW2	12/12/05	65.95	b	25.40	40.55	0.00	670	5,300	1,100	9,800	34,000	2,800	<500	65	--
MW2	03/29/06	65.95	b	15.66	50.29	sheen	620	2,800	540	4,700	33,000	<4,000	<100	37	--

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

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW2	06/19/06	65.95	b 19.14	46.81	sheen	680	5,200	990	16,000	120,000	<30,000	1,900	170	--	
MW2	09/29/06	65.95	b 21.16	44.79	0.00	1,200	5,100	1,200	9,300	59,000	<8000	300	230	--	
MW2	12/12/06	65.95	b 21.46	44.49	0.00	850	4,400	1,100	8,900	45,000	<10000	360	110	--	
MW2	03/01/07	65.95	b 19.48	46.47	0.00	1,400	5,200	980	9,500	71,000	<18000	460	160	--	
MW2	06/12/07	65.95	b 20.98	44.97	0.00	1,300	4,900	1,200	8,900	40,000	<3000	<100	130	--	
MW2	09/25/07	65.95	b 22.57	43.38	0.00	1,400	6,500	1,900	13,000	68,000	<12000	250	240	--	
MW2	12/20/07	65.95	b 22.70	43.25	0.00	1,400	7,000	2,400	16,000	75,000	<5000	650	270	--	
MW2	03/26/08	65.95	b 22.51	43.44	0.00	1,400	6,200	1,800	16,000	83,000	<10000	360	480	--	
MW2	06/03/08	65.95	b 21.85	44.10	0.00	1,900	11,000	2,500	18,000	98,000	<12000	500	660	--	
MW2	09/25/08	65.95	b 23.30	42.65	0.00	740	3,500	1,700	10,000	46,000	<8000	170	340	180	
MW2	12/29/08	65.95	b 22.95	43.00	0.00	260	1,500	1,100	6,400	29,000	<4000	<100	110	<50	
MW2	03/24/09	65.71	l 19.58	46.13	0.00	410	2,000	900	8,900	45,000	<8,000	420	300	210	
MW2	06/02/09	65.71	l 20.50	45.21	0.00	680	3,100	1,200	10,000	80,000	<12000	480	330	180	
MW2	09/10/09	65.71	l 22.40	43.31	0.00	700	3,000	1,300	9,400	45,000	< 8000	190	370	220	
MW2	12/04/09	65.71	l 24.30	41.41	0.00	290	1,500	930	4,900	24,000	< 2000	170	200	92	
MW2	03/10/10	65.71	l 22.20	43.51	0.00	200	1,300	700	9,500	45,000	< 6,000	< 100	340	--	
MW2	05/28/10	65.71	l 22.41	43.30	0.00	260	1,100	650	4,700	23,000	< 8000	170	380	--	
MW2	08/26/10	65.71	l 23.00	42.71	0.00	160	980	490	4,200	22,000	<2000	<100	180	--	
MW2	09/20/10	65.71	l NM	NC	0.00	52	360	210	1,600	8,800	--	--	--	--	
MW2	12/22/10	65.71	l 22.47	43.24	0.00	130	1,100	430	6,000	26,000	<3000	<100	640	--	
MW2	03/16/11	65.71	l 19.00	46.71	0.00	430	1700	490	3700	29,000	< 3000	190	500	--	
MW2	06/21/11	65.71	l 20.10	45.61	0.00	640	2100	680	4000	26,000	< 3000	< 100	660	--	
MW2	09/14/11	65.71	l 21.97	43.74	0.00	460	3200	1200	7600	47,000	< 30000	520	380	--	
MW2	12/01/11	65.71	l 22.73	42.98	0.00	350	2,200	1,100	4,600	26,000	<1000	<100	510	--	
MW2	03/08/12	65.71	l 22.62	43.09	0.00	150	1000	560	2500	14,000	< 200	< 100	200	--	
MW2	06/04/12	65.71	l 20.31	45.40	0.00	380	2,000	560	3,200	22,000	<100	<100	320	--	
MW2	09/06/12	65.71	l 29.10	36.61	0.00	220	520	130	780	6,300	< 50	< 100	18	--	
MW2	12/14/12	65.71	l 21.15	44.56	0.00	620	2,500	430	8,100	51,000	< 2000	430	24	--	
MW2	03/27/13	65.71	l 21.97	43.74	0.00	620	3,200	480	6,100	36,000	350	< 100	56	--	
MW2	06/18/13	65.71	l 22.60	43.11	0.00	120	1,000	380	4,000	24,000	1,100	260	5	--	
MW2	09/24/13	65.71	1 23.06	42.65	0.00	49	250	100	690	4,300	<50	<100	3.1	--	
MW3	07/27/93	101.29	a 22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--	
MW3	10/02/97	101.29	a 22.71	78.58	0.03	4,200	11,000	1,800	10,600	36,000	--	--	3,500	--	
MW3	06/30/98	101.29	a 19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	--	
MW3	07/29/98	101.29	a 20.01	81.28	0.00	--	--	--	--	--	--	--	--	--	
MW3	08/26/98	101.29	a 20.62	80.67	0.00	--	--	--	--	--	--	--	--	--	
MW3	10/01/98	101.29	a 21.33	79.96	0.00	3,900	8,500	1,200	6,000	38,000	--	--	2,300	--	
MW3	10/30/98	101.29	a 21.62	79.67	0.00	--	--	--	--	--	--	--	--	--	
MW3	11/30/98	101.29	a 21.31	79.98	0.00	--	--	--	--	--	--	--	--	--	
MW3	12/28/98	101.29	a 21.15	80.14	0.06	--	--	--	--	--	--	--	--	--	
MW3	01/25/99	101.29	a 20.79	80.50	0.00	4,000	10,000	1200	6700	5,100	--	--	2900	--	
MW3	02/26/99	101.29	a 18.02	83.27	0.00	--	--	--	--	--	--	--	--	--	
MW3	03/24/99	101.29	a 18.37	82.92	0.00	--	--	--	--	--	--	--	--	--	
MW3	05/12/99	101.29	a 19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--	
MW3	12/15-16/99	101.29	a 22.43	78.86	0.00	*	*	*	*	*	*	*	*	--	
MW3	03/20/00	101.29	a 17.14	84.15	0.00	--	--	--	--	--	--	--	--	--	
MW3	07/20/00	101.29	a 20.98	80.31	0.00	5,700	14,000	1,600	9,300	69,000	2,900	<300	3,300	--	
MW3	10/11/00	101.29	a 22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	
MW3	04/10-11/01	101.29	a 20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	--	
MW3	07/10/01	101.29	a 21.97	79.32	0.00	--	--	--	--	--	--	--	--	--	

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

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW3	11/20/01	65.99	b 22.80	43.19	0.00	6,300	16,000	2,400	14,900	100,000	5,900	<900	4,000	--	
MW3	02/19/02	65.99	b 20.11	45.88	0.00	--	--	--	--	--	--	--	--	--	
MW3	05/21/02	65.99	b 21.20	44.79	0.00	6,500	17,000	2,200	12,700	91,000	14,000	<3,000	2,200	--	
MW3	06/27/03	65.99	b 21.32	44.67	sheen	--	--	--	--	--	--	--	--	--	
MW3	09/29/03	65.99	b 22.79	43.20	sheen	*	*	*	*	*	*	*	*	--	
MW3 ^e	12/12/03	65.99	b 22.73	43.27	0.01	*	*	*	*	*	*	*	*	--	
MW3 ^e	03/15/04	65.99	b 19.32	46.67	sheen	*	*	*	*	*	*	*	*	--	
MW3	06/24/04	65.99	b 21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--	
MW3	09/29/04	65.99	b 22.54	43.45	0.00	2,900	6,700	980	4,300	29,000	2,200	<500	1,100	--	
MW3	12/13/04	65.99	b 22.06	43.93	0.00	1,700	2,900	790	3,400	17,000	1,300	<500	490	--	
MW3 ^j	03/14/05	65.99	b 24.00	41.99	0.00	680	1,700	380	1,600	10,000	670	<500	67	--	
MW3	06/15/05	65.99	b 21.13	44.86	0.00	260	960	330	1,400	12,000	1,200	<500	31	--	
MW3	07/18/05	65.99	b NM	NC	NM	1,000	5,600	1,100	4,300	23,000	1,700	--	81	--	
MW3	09/26/05	65.99	b 22.92	43.07	0.00	4,000	17,000	1,900	17,000	79,000	5,100	540	270	--	
MW3	12/12/05	65.99	b 23.30	42.69	0.00	200	710	450	1,400	7,000	550	<500	<10	--	
MW3	03/29/06	65.99	b 15.70	50.29	0.00	110	300	130	490	3,800	<200	<100	13	--	
MW3	06/19/06	65.99	b 19.11	46.88	0.00	160	500	320	840	7,000	<300	<100	3.1	--	
MW3	09/29/06	65.99	b 21.15	44.84	0.00	1,300	2,300	720	2,900	22,000	<1500	<100	110	--	
MW3	12/12/06	65.99	b 21.38	44.61	0.00	1,400	2,200	670	2,600	21,000	<1500	<100	130	--	
MW3	03/01/07	65.99	b 19.50	46.49	0.00	1,100	2,500	510	2,200	17,000	<600	<100	51	--	
MW3	06/12/07	65.99	b 21.00	44.99	0.00	1,800	4,000	800	3,300	22,000	<1500	<100	150	--	
MW3	09/25/07	65.99	b 22.59	43.40	0.00	2,400	5,000	1,000	4,600	29,000	<500	<100	220	--	
MW3	12/20/07	65.99	b 22.59	43.40	0.00	2,400	4,900	1,100	4,700	36,000	<2000	<100	240	--	
MW3	03/26/08	65.99	b 22.13	43.86	0.00	4,500	11,000	1,700	7,800	54,000	<1500	<100	340	--	
MW3	06/03/08	65.99	b 21.81	44.18	0.00	3,900	8,700	1,500	7,000	47,000	<1500	<100	470	--	
MW3	09/25/08	65.99	b 23.30	42.69	0.00	1,600	3,700	700	3,300	22,000	<3000	<100	220	180	
MW3	12/29/08	65.99	b 22.92	43.07	0.00	310	910	320	1,300	11,000	<1500	<100	35	23	
MW3	03/24/09	65.70	l 19.43	46.27	0.00	1,400	4,200	600	2,500	19,000	<1,000	<100	160	60	
MW3	06/02/09	65.70	l 20.70	45.00	0.00	2,800	7,600	1,300	5,600	39,000	<1,500	<100	240	180	
MW3	09/10/09	65.70	l 22.32	43.38	0.00	1,800	3,900	790	3,500	22,000	<1500	<100	190	110	
MW3	12/04/09	65.70	l 24.20	41.50	0.00	1,600	3,400	860	3,900	25,000	<800	<100	210	81	
MW3	03/10/10	65.70	l 22.03	43.67	0.00	420	2,400	640	3,600	27,000	<3,000	<100	24	--	
MW3	05/28/10	65.70	l 22.84	42.86	0.00	1,200	4,600	920	4,800	31,000	<5000	<100	120	--	
MW3	08/26/10	65.70	l 23.42	42.28	sheen	--	--	--	--	--	--	--	--	--	
MW3	09/20/10	65.70	l NM	NC	sheen	2700	13000	2900	18000	110000	--	--	--	--	
MW3	12/22/10	65.70	l 22.70	43.00	0.20	--	--	--	--	--	--	--	--	--	
MW3	03/16/11	65.70	l 20.13	45.57	0.00	4000	16000	2800	15000	91000	<3000	<100	230	--	
MW3	06/21/11	65.70	l 20.20	45.50	0.00	5200	16000	3200	18000	110000	<10000	130	490	--	
MW3	09/14/11	65.70	l 22.15	43.55	0.17	--	--	--	--	--	--	--	--	--	
MW3	12/01/11	65.70	l 22.86	42.84	0.02	--	--	--	--	--	--	--	--	--	
MW3	03/08/12	65.70	l 22.69	43.01	0.00	3,400	11,000	2200	10000	75000	<2000	150	330	--	
MW3	06/04/12	65.70	l 20.28	45.42	0.00	2,500	5,600	1,100	4,000	39,000	<100	<100	280	--	
MW3	09/06/12	65.70	l 27.50	38.20	0.00	70	190	160	540	4,200	<200	<100	20	--	
MW3	12/14/12	65.70	l 21.15	44.55	0.00	83	1,000	290	2,800	23,000	470	390	3.6	--	
MW3	03/27/13	65.70	l 21.96	43.74	0.00	140	1,500	550	3,300	19,000	170	<100	7.6	--	
MW3	06/18/13	65.70	l 22.59	43.11	0.00	12	32	30	130	2,100	<50	<100	3.5	--	
MW3	09/24/13	65.70	1 21.28	44.42	0.00	14	56	24	100	970	130	170	0.6	--	
MW4	06/30/98	98.65	a 16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	--	
MW4	07/29/98	98.65	a 17.48	81.17	0.00	--	--	--	--	--	--	--	--	--	
MW4	08/26/98	98.65	a 18.65	80.00	0.00	--	--	--	--	--	--	--	--	--	

TABLE 1 . CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW4	10/01/98	98.65	a 18.74	79.91	0.00	570	46	130	36	1,100	--	--	1,300	--	
MW4	10/30/98	98.65	a 19.02	79.63	0.00	--	--	--	--	--	--	--	--	--	
MW4	11/30/98	98.65	a 18.74	79.91	0.00	--	--	--	--	--	--	--	--	--	
MW4	12/28/98	98.65	a 18.60	80.05	0.00	--	--	--	--	--	--	--	--	--	
MW4	01/25-26/99	98.65	a 18.32	80.33	0.00	230	<8.3	<8.3	<8.3	290	--	--	1,300	--	
MW4	02/26/99	98.65	a 15.81	82.84	0.00	--	--	--	--	--	--	--	--	--	
MW4	03/24/99	98.65	a 16.01	82.64	0.00	--	--	--	--	--	--	--	--	--	
MW4	05/12/99	98.65	a 17.71	80.94	0.00	--	--	--	--	--	--	--	--	--	
MW4	12/15-16/99	98.65	a 19.83	78.82	0.00	5.8	<0.50	<0.50	<0.50	<50	--	--	1,400	--	
MW4	03/20/00	98.65	a 14.9	83.75	0.00	--	--	--	--	--	--	--	--	--	
MW4	07/20/00	98.65	a 18.38	80.27	0.00	91	4.6	19	12.9	210	<50	<300	1,500	--	
MW4	10/11/00	98.65	a 19.61	79.04	0.00	--	--	--	--	--	--	--	--	--	
MW4	04/10-11/01	98.65	a 17.55	81.10	0.00	110	<5.0	<5.0	<5.0	350	<50	<300	1,100	--	
MW4	07/10/01	98.65	a 19.34	79.31	0.00	--	--	--	--	--	--	--	--	--	
MW4	11/20/01	63.35	b 20.16	43.19	0.00	<2.5	4	<2.5	3.7	96	<50	<300	2,500	--	
MW4	02/19/02	63.35	b 17.34	46.01	0.00	--	--	--	--	--	--	--	--	--	
MW4	05/21/02	63.35	b 18.57	44.78	0.00	340	5.7	70	<1.0	940	83	<300	1,600	--	
MW4	06/27/03	63.35	b 18.72	44.63	0.00	--	--	--	--	--	--	--	--	--	
MW4	09/29/03	63.35	b 20.11	43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50	<500	1,700	--	
MW4	12/12/03	63.35	b 20.06	43.29	0.00	<13	<13	<13	<25	<1,300	<50	<500	1,000	--	
MW4	03/15/04	63.35	b 16.89	46.46	0.00	1.5	<0.50	<0.50	<1.0	54	<50	<500	41	--	
MW4	06/24/04	63.35	b 19.31	44.04	0.00	69	<5.0	<5.0	<10	920	<50	<500	1,100	--	
MW4	09/29/04	63.35	b 20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940	<50	<500	1,200	--	
MW4	12/13/04	**	b 20.44	NC	0.00	<5.0	<5.0	<5.0	<10	740	<50	<500	860	--	
MW4	03/14/05	**	b 18.30	NC	0.00	20	<5.0	<5.0	<10	930	<50	<500	930	--	
MW4	06/15/05	**	b 20.03	NC	0.00	350	6.1	<5.0	<10	2100	89	<500	1,100	--	
MW4	07/18/05	**	b NM	NC	NM	11	<5.0	<5.0	<10	540	<50	--	1,100	--	
MW4	09/26/05	**	b 21.79	NC	0.00	<5.0	<5.0	<5.0	<10	960	<50	<500	660	--	
MW4	12/12/05	**	b 21.89	NC	0.00	<5.0	<5.0	<5.0	<10	820	<50	<500	1,000	--	
MW4	03/29/06	**	b 14.85	NC	0.00	49	160	120	300	2,400	<100	<100	130	--	
MW4	06/19/06	**	b 17.96	NC	0.00	100	940	540	1,800	8,800	<400	<100	55	--	
MW4	09/29/06	63.35	b 19.85	43.50	0.00	18.0	2.6	1.5	3.5	370.0	<50	<100	180	--	
MW4	12/12/06	63.35	b 20.03	43.32	0.00	11.0	0.77	<0.5	<0.5	230.0	<50	<100	260	--	
MW4	03/01/07	63.35	b 18.33	45.02	0.00	63.0	7.10	40.0	190.0	1,800.0	<50	<100	130	--	
MW4	06/12/07	63.35	b 19.70	43.65	0.00	9.3	<0.5	<0.5	<0.5	70.0	<50	<100	150	--	
MW4	09/25/07	63.35	b 21.27	42.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	300	--	
MW4	12/20/07	63.35	b 21.30	42.05	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	370	--	
MW4	03/26/08	63.35	b 20.89	42.46	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	260	--	
MW4	06/03/08	63.35	b 20.51	42.84	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	190	--	
MW4	09/25/08	63.35	b 22.03	41.32	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	380	<5.0	
MW4	12/29/08	63.35	b 21.62	41.73	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	230	<5.0	
MW4	03/24/09	64.37	l 18.38	45.99	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50	<100	370	<5.0	
MW4	06/02/09	64.37	l 19.32	45.05	0.00	0.64	<0.5	<0.5	<0.5	<50	<50	<100	320	<5.0	
MW4	09/10/09	64.37	l 21.00	43.37	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	280	< 5.0	
MW4	12/04/09	64.37	l 22.76	41.61	0.00	< 0.50	< 0.50	< 0.50	2.9	< 50	< 50	< 100	430	< 5.0	
MW4	03/10/10	64.37	l 20.87	43.50	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	130	--	
MW4	05/28/10	64.37	l 21.07	43.30	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	140	--	
MW4	08/26/10	64.37	l 21.71	42.66	0.00	<0.50	<0.50	<0.50	2.0	<50	<50	<100	160	--	
MW4	12/02/10	64.37	l 21.21	43.16	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	50	--	
MW4	03/16/11	64.37	l 18.82	45.55	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	220	--	
MW4	06/21/11	64.37	l 18.95	45.42	0.00	0.70	< 0.50	1.4	< 0.50	< 50	< 50	< 100	220	--	

TABLE 1 . CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW4	09/14/11	64.37	1	20.68	43.69	0.00	< 0.50	< 0.50	< 0.50	2.9	63	< 50	< 100	150	--
MW4	12/01/11	64.37	1	21.59	42.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	200	--
MW4	03/08/12	64.37	1	21.32	43.05	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	210	--
MW4	06/04/12	64.37	1	19.01	45.36	0.00	35.00	1.10	19.0	6.1	220.0	<50	<100	160	--
MW4	09/06/12	64.37	1	21.88	42.49	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	240	--
MW4	12/14/12	64.37	1	20.00	44.37	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	220	--
MW4	03/27/13	64.37	1	20.78	43.59	0.00	< 0.50	< 0.50	< 0.50	< 0.50	71.0	< 50	< 100	220	--
MW4	06/19/13	64.37	1	21.35	43.02	0.00	< 0.50	< 0.50	< 0.50	< 0.50	<50	< 50	< 100	170	--
MW4	09/24/13	64.37	1	21.81	42.56	0.00	--	--	--	--	--	--	--	--	--
MW5	06/30/98	100.9	a	20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	--
MW5	07/29/98	100.9	a	21.52	79.38	0.00	--	--	--	--	--	--	--	--	--
MW5	08/26/98	100.9	a	22.21	78.69	0.00	--	--	--	--	--	--	--	--	--
MW5	10/01/98	100.9	a	22.95	77.95	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW5	10/30/98	100.9	a	23.23	77.67	0.00	--	--	--	--	--	--	--	--	--
MW5	11/30/98	100.9	a	23.12	77.78	0.00	--	--	--	--	--	--	--	--	--
MW5	12/28/98	100.9	a	23.18	77.72	0.00	--	--	--	--	--	--	--	--	--
MW5	01/25-26/99	100.9	a	22.61	78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	--
MW5	02/26/99	100.9	a	19.78	81.12	0.00	--	--	--	--	--	--	--	--	--
MW5	03/24/99	100.9	a	20.25	80.65	0.00	--	--	--	--	--	--	--	--	--
MW5	05/12/99	100.9	a	21.06	79.84	0.00	--	--	--	--	--	--	--	--	--
MW5	12/15-16/99	100.9	a	24.19	76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--
MW5	03/20/00	100.9	a	19.15	81.75	0.00	--	--	--	--	--	--	--	--	--
MW5	07/20/00	100.9	a	21.84	79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	1.9	--
MW5	10/11/00	100.9	a	23.4	77.50	0.00	--	--	--	--	--	--	--	--	--
MW5	04/10-11/01	100.9	a	22.3	78.60	0.00	<0.50	2.6	<0.50	0.6	<50	<50	<300	1.5	--
MW5	07/10/01	100.9	a	23.64	77.26	0.00	--	--	--	--	--	--	--	--	--
MW5	11/20/01	65.59	b	24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	--
MW5	02/19/02	65.59	b	22.37	43.22	0.00	--	--	--	--	--	--	--	--	--
MW5	05/21/02	65.59	b	23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	--
MW5	06/27/03	65.59	b	23.07	42.52	0.00	--	--	--	--	--	--	--	--	--
MW5	09/29/03	65.59	b	24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50	<500	1.4	--
MW5	12/12/03	65.59	b	23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--
MW5	03/15/04	65.59	b	20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--
MW5	06/24/04	65.59	b	23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130	<500	0.79	--
MW5	09/29/04	65.59	b	24.44	41.15	0.00	--	--	--	--	--	--	--	--	--
MW5	12/13/04	65.59	b	23.87	41.72	0.00	--	--	--	--	--	--	--	--	--
MW5	03/14/05	65.59	b	20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--
MW5	06/15/05	65.59	b	12.96	52.63	0.00	--	--	--	--	--	--	--	--	--
MW5	09/26/05	65.59	b	23.60	41.99	0.00	--	--	--	--	--	--	--	--	--
MW5	12/12/05	65.59	b	23.84	41.75	0.00	--	--	--	--	--	--	--	--	--
MW5	03/29/06	65.59	b	17.19	48.40	0.00	<0.50	<0.50	<0.50	<0.50	73	<50	<100	<0.50	--
MW5	06/19/06	65.59	b	20.22	45.37	0.00	--	--	--	--	--	--	--	--	--
MW5	09/29/06	65.59	b	22.80	42.79	0.00	--	--	--	--	--	--	--	--	--
MW5	12/12/06	65.59	b	23.08	42.51	0.00	--	--	--	--	--	--	--	--	--
MW5	03/01/07	65.59	b	21.02	44.57	0.00	<0.50	<0.50	<0.50	<0.50	54	<50	<100	<0.50	--
MW5	06/12/07	65.59	b	22.78	42.81	0.00	--	--	--	--	--	--	--	--	--
MW5	09/25/07	65.59	b	24.45	41.14	0.00	<0.50	1.5	<0.50	<0.50	<50	<50	<100	0.64	--
MW5	12/20/07	65.59	b	24.52	41.07	0.00	--	--	--	--	--	--	--	--	--
MW5	03/26/08	65.59	b	24.08	41.51	0.00	<0.50	1.5	<0.50	<0.50	<50	<50	<100	<0.5	--
MW5	06/03/08	65.59	b	23.68	41.91	0.00	--	--	--	--	--	--	--	--	--

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

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW5	09/25/08	65.59	b 25.00	40.59	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.66	<5.0	
MW5	12/29/08	65.59	b 24.92	40.67	0.00	<0.50	<0.50	<0.50	<0.50	71	<50	<100	<0.5	<5.0	
MW5	03/24/09	65.59	l 21.85	43.74	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.54	<5.0	
MW5	06/02/09	65.59	l 22.70	42.89	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.5	<5.0	
MW5	09/10/09	65.59	l 24.12	41.47	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.56	<5.0	
MW5	12/04/09	65.59	l dry	--	0.00	--	--	--	--	--	--	--	--	--	
MW5	03/10/10	65.59	l 25.90	39.69	0.00	<0.50	<0.50	<0.50	<0.50	55	<50	<100	0.71	--	
MW5	05/28/10	65.59	l 25.54	40.05	0.00	--	--	--	--	--	--	--	--	--	
MW5	08/26/10	65.59	l 25.59	40.00	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	0.52	--	
MW5	12/22/10	65.59	l 24.80	40.79	0.00	--	--	--	--	--	--	--	--	--	
MW5	03/16/11	65.59	l 22.02	43.57	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW5	06/21/11	65.59	l 22.41	43.18	0.00	--	--	--	--	--	--	--	--	--	
MW5	09/14/11	65.59	l 24.39	41.20	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW5	12/01/11	65.59	l 25.22	40.37	0.00	--	--	--	--	--	--	--	--	--	
MW5	03/08/12	65.59	l 24.90	40.69	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW5	06/04/12	65.59	l 22.30	43.29	0.00	--	--	--	--	--	--	--	--	--	
MW5	09/06/12	65.59	l 23.86	41.73	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW5	12/14/12	65.59	l 21.61	43.98	0.00	--	--	--	--	--	--	--	--	--	
MW5	03/27/13	65.59	l 22.57	43.02	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW5	06/18/13	65.59	l 23.30	42.29	0.00	--	--	--	--	--	--	--	--	--	
MW5	09/24/13	65.59	1 23.84	41.75	0.00	--	--	--	--	--	--	--	--	--	
MW6	07/20/00	96.60	a 18.30	78.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	160	--	
MW6	10/11/00	96.60	a 18.69	77.91	0.00	--	--	--	--	--	--	--	--	--	
MW6	04/10-11/01	96.60	a 17.85	78.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	180	--	
MW6	07/10/01	96.60	a 18.43	78.17	0.00	--	--	--	--	--	--	--	--	--	
MW6	11/20/01	59.60	b 18.67	40.93	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	450	--	
MW6	02/19/02	59.60	b 17.40	42.20	0.00	--	--	--	--	--	--	--	--	--	
MW6	05/21/02	59.60	b 17.68	41.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	170	--	
MW6	06/27/03	59.60	b 17.73	41.87	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/29/03	59.60	b 18.48	41.12	0.00	<1.0	<1.0	<1.0	<2.0	230	<50	<500	340	--	
MW6	12/12/03	59.60	b 17.89	41.71	0.00	<2.5	<2.5	<2.5	<5.0	<250	51	<500	190	--	
MW6	03/15/04	59.60	b 16.46	43.14	0.00	<1.0	<1.0	<1.0	<2.0	200	<50	<500	220	--	
MW6	06/24/04	59.60	b 17.97	41.63	0.00	<1.0	<1.0	<1.0	<2.0	130	<50	<500	190	--	
MW6	09/29/04	59.60	b 18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210	<50	<500	190	--	
MW6	12/13/04	59.60	b 17.88	41.72	0.00	--	--	--	--	--	--	--	--	--	
MW6	03/14/05	59.60	b 16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--	
MW6	06/15/05	59.60	b 17.60	42.00	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/26/05	59.60	b NM	NM	0.00	--	--	--	--	--	--	--	--	--	
MW6	12/12/05	59.60	b 18.33	41.27	0.00	0.62	<0.50	<0.50	1.0	81	<50	<500	140	--	
MW6	03/29/06	59.60	b 14.53	45.07	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	120	--	
MW6	06/19/06	59.60	b 16.46	43.14	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/29/06	59.60	b 17.60	42.00	0.00	0.87	<0.50	<0.50	<0.50	<50	<50	<100	140	--	
MW6	12/12/06	59.60	b 16.93	42.67	0.00	0.67	<0.50	<0.50	<0.50	<50	<50	230	89	--	
MW6	03/01/07	59.60	b 16.30	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	78	--	
MW6	06/12/07	59.60	b 17.38	42.22	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/25/07	59.60	b 18.36	41.24	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	89	--	
MW6	12/20/07	59.60	b 17.90	41.70	0.00	--	--	--	--	--	--	--	--	--	
MW6	03/26/08	59.60	b 17.37	42.23	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	68	--	
MW6	06/03/08	59.60	b 17.11	42.49	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/25/08	59.60	b 18.82	40.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	78	<5.0	

TABLE 1 . CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW6	12/29/08	59.60	b 18.30	41.30	0.00	0.77	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	44	<5.0
MW6	03/24/09	59.60	l 16.80	42.80	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	51	<5.0	
MW6	06/02/09	59.60	l 17.27	42.33	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	59	<5.0	
MW6	09/10/09	59.60	l 18.20	41.40	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	73	<5.0	
MW6	12/04/09	59.60	l 19.07	40.53	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	50	<5.0	
MW6	03/10/10	59.60	l 17.80	41.80	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	51	--	
MW6	05/28/10	59.60	l 18.02	41.58	0.00	--	--	--	--	--	--	--	--	--	
MW6	08/26/10	59.60	l 18.70	40.90	0.00	<0.50	<0.50	<0.50	<0.50	<50	<0.50	<100	47	--	
MW6	12/22/10	59.60	l 17.84	41.76	0.00	--	--	--	--	--	--	--	--	--	
MW6	03/16/11	59.60	l 16.94	42.66	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	44	--	
MW6	06/21/11	59.60	l 17.05	42.55	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/14/11	59.60	l 17.97	41.63	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	50	--	
MW6	12/01/11	59.60	l 18.46	41.14	0.00	--	--	--	--	--	--	--	--	--	
MW6	03/08/12	59.60	l 18.49	41.11	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	41	--	
MW6	06/04/12	59.60	l 17.05	42.55	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/06/12	59.60	l 18.50	41.10	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	51	--	
MW6	12/14/12	59.60	l 15.16	44.44	0.00	--	--	--	--	--	--	--	--	--	
MW6	03/27/13	59.60	l 17.48	42.12	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	55	--	
MW6	06/18/13	59.60	l 18.31	41.29	0.00	--	--	--	--	--	--	--	--	--	
MW6	09/24/13	59.60	1 16.72	42.88	0.00	--	--	--	--	--	--	--	--	--	
MW7	07/20/00	96.75	a 15.93	80.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--	
MW7	10/11/00	96.75	a 16.90	79.85	0.00	--	--	--	--	--	--	--	--	--	
MW7	04/10-11/01	96.75	a 15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--	
MW7	07/10/01	96.75	a 16.71	80.04	0.00	--	--	--	--	--	--	--	--	--	
MW7	11/20/01	59.47	b 16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	--	
MW7	02/19/02	59.47	b 14.92	44.55	0.00	--	--	--	--	--	--	--	--	--	
MW7	05/21/02	59.47	b 15.18	44.29	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	--	
MW7	06/27/03	59.47	b 16.28	43.19	0.00	--	--	--	--	--	--	--	--	--	
MW7	09/29/03	59.47	b 16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	0.62	--	
MW7	12/12/03	59.47	b 14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW7	03/15/04	59.47	b 14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW7	06/24/04	59.47	b 16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	<500	<0.50	--	
MW7	09/29/04	59.47	b 16.88	42.59	0.00	--	--	--	--	--	--	--	--	--	
MW7	12/13/04	59.47	b 15.26	44.21	0.00	--	--	--	--	--	--	--	--	--	
MW7	03/14/05	59.47	b 15.00	44.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	
MW7	06/15/05	59.47	b 15.32	44.15	0.00	--	--	--	--	--	--	--	--	--	
MW7	09/26/05	59.47	b NM	NM	0.00	--	--	--	--	--	--	--	--	--	
MW7	12/12/05	59.47	b 15.99	43.48	0.00	--	--	--	--	--	--	--	--	--	
MW7	03/29/06	59.47	b 12.65	46.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW7	06/19/06	59.47	b 14.49	44.98	0.00	--	--	--	--	--	--	--	--	--	
MW7	09/29/06	59.47	b 16.67	42.80	0.00	--	--	--	--	--	--	--	--	--	
MW7	12/12/06	59.47	b 15.21	44.26	0.00	--	--	--	--	--	--	--	--	--	
MW7	03/01/07	59.47	b 14.68	44.79	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW7	06/12/07	59.47	b 16.2	43.27	0.00	--	--	--	--	--	--	--	--	--	
MW7	09/25/07	59.47	b 16.72	42.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW7	12/20/07	59.47	b 15.02	44.45	0.00	--	--	--	--	--	--	--	--	--	
MW7	03/26/08	59.47	b 15.95	43.52	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--	
MW7	06/03/08	59.47	b 14.24	45.23	0.00	--	--	--	--	--	--	--	--	--	
MW7	09/25/08	59.47	b 17.07	42.40	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	
MW7	12/29/08	59.47	b 15.64	43.83	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0	

TABLE 1. CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA	
MW7	03/24/09	59.49	1	14.57	44.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	06/02/09	59.49	1	16.10	43.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	09/10/09	59.49	1	17.10	42.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW7	12/04/09	59.49	1	17.10	42.39	0.00	--	--	--	--	--	--	--	--	--
MW7	03/10/10	59.49	1	15.17	44.32	0.00	--	--	--	--	--	--	--	--	--
MW7	05/28/10	59.49	1	15.20	44.29	0.00	--	--	--	--	--	--	--	--	--
MW7	08/26/10	59.49	1	17.10	42.39	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
MW7	12/22/10	59.49	1	14.94	44.55	0.00	--	--	--	--	--	--	--	--	--
MW7	03/16/11	59.49	1	14.75	44.74	0.00	--	--	--	--	--	--	--	--	--
MW7	06/21/11	59.49	1	15.74	43.75	0.00	--	--	--	--	--	--	--	--	--
MW7	09/14/11	59.49	1	16.68	42.81	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW7	12/01/11	59.49	1	16.65	42.84	0.00	--	--	--	--	--	--	--	--	--
MW7	03/08/12	59.49	1	16.07	43.42	0.00	--	--	--	--	--	--	--	--	--
MW7	06/04/12	59.49	1	16.19	43.30	0.00	--	--	--	--	--	--	--	--	--
MW7	09/06/12	59.49	1	16.97	42.52	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	< 0.50	--
MW7	12/14/12	59.49	1	17.30	42.19	0.00	--	--	--	--	--	--	--	--	--
MW7	03/27/13	59.49	1	16.39	43.10	0.00	--	--	--	--	--	--	--	--	--
MW7	06/18/13	59.49	1	16.55	42.94	0.00	--	--	--	--	--	--	--	--	--
MW7	09/24/13	59.49	1	18.65	40.84	0.00	--	--	--	--	--	--	--	--	--
MW8	12/29/08	NS	b	15.71	NC	0.00	<0.50	0.64	<0.50	0.78	<50	<50	<100	1.5	<5.0
MW8	03/24/09	57.07	1	16.08	40.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW8	06/02/09	57.07	1	15.46	41.61	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	<5.0
MW8	09/10/09	57.07	1	15.58	41.49	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	2.4	< 5.0
MW8	12/04/09	57.07	1	16.27	40.80	0.00	--	--	--	--	--	--	--	--	--
MW8	03/10/10	57.07	1	14.47	42.60	0.00	--	--	--	--	--	--	--	--	--
MW8	05/28/10	57.07	1	16.12	40.95	0.00	--	--	--	--	--	--	--	--	--
MW8	08/26/10	57.07	1	16.36	40.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	1.1	--
MW8	12/22/10	57.07	1	16.25	40.82	0.00	--	--	--	--	--	--	--	--	--
MW8	03/16/11	57.07	1	15.66	41.41	0.00	--	--	--	--	--	--	--	--	--
MW8	06/21/11	57.07	1	15.72	41.35	0.00	--	--	--	--	--	--	--	--	--
MW8	09/14/11	57.07	1	15.88	41.19	0.00	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 100	1.4	--
MW8	12/01/11	57.07	1	16.01	41.06	0.00	--	--	--	--	--	--	--	--	--
MW8	03/08/12	57.07	1	16.07	41.00	0.00	--	--	--	--	--	--	--	--	--
MW8	06/04/12	57.07	1	12.45	44.62	0.00	--	--	--	--	--	--	--	--	--
MW8	09/06/12	57.07	1	14.66	42.41	0.00	--	--	--	--	--	--	--	--	--
MW8	12/14/12	57.07	1	12.96	44.11	0.00	--	--	--	--	--	--	--	--	--
MW8	03/27/13	57.07	1	13.85	43.22	0.00	--	--	--	--	--	--	--	--	--
MW8	06/18/13	57.07	1	14.81	42.26	0.00	--	--	--	--	--	--	--	--	--
MW8	09/24/13	57.07	1	15.42	41.65	0.00	--	--	--	--	--	--	--	--	--
MW9A	09/10/09	65.90		22.51	43.39	0.00	7,800	33,000	4,500	25,000	160,000	< 20,000	410	1,800	780
MW9A	12/04/09	65.90		24.42	41.48	0.00	--	--	--	--	--	--	--	--	--
MW9A (m)	12/28/09	65.90		24.62	41.28	sheen	12,000	34,000	4,300	24,000	180,000	<200,000	3,400	2,100	680
MW9A	03/10/10	65.90		22.30	43.60	0.00	15,000	42,000	4,800	26,000	210,000	< 40,000	250	2,300	--
MW9A	05/28/10	65.90		22.62	43.29	(n)	Not Sampled due to Free Product								
MW9A	08/26/10	65.90		23.21	42.70	0.00	2,600	19,000	3,000	22,000	150,000	<500,000	11,000	75	--
MW9A	09/21/10	65.90	NM	NC	0.00	1,400	9,600	1,600	12,000	70,000	--	--	--	--	--
MW9A	12/22/10	65.90		22.63	43.28	0.00	4,400	17,000	1,900	13,000	83,000	<1500	<100	250	--
MW9A	03/16/11	65.90		20.31	45.60	0.00	4,900	22,000	2,800	20,000	130,000	< 1500	230	620	--
MW9A	06/21/11	65.90		20.36	45.55	0.00	16	33	39	230	2800	< 300	< 100	28	--

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

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	TBA
MW9A	09/14/11	65.90	22.24	43.67	0.00	3700	17000	2800	21000	120000	< 25000	1400	720	--
MW9A	12/01/11	65.90	23.02	42.89	0.00	3,700	14,000	2,000	15,000	98,000	<2000	410	670	--
MW9A	03/08/12	65.90	22.90	43.01	0.00	4600	16000	2100	17000	97000	< 300	< 100	810	--
MW9A	06/04/12	65.90	21.51	44.40	0.00	3,800	12,000	1,300	13,000	93,000	< 300	< 100	860	--
MW9A	09/06/12	65.90	23.60	42.31	0.00	2,800	13,000	1,800	13,000	110,000	< 800	430	420	--
MW9A	12/14/12	65.90	21.30	44.61	0.00	2,800	17,000	2,800	16,000	130,000	< 200	< 100	98	--
MW9A	03/27/13	65.90	22.09	43.82	0.00	1,500	9,700	2,500	14,000	80,000	54	< 100	56	--
MW9A	06/18/13	65.90	22.55	43.36	0.00	1,300	7,300	1,900	11,000	66,000	250	150	16	--
MW9A	09/24/13	65.90	23.30	42.61	0.00	870	6,000	1,800	11,000	58,000	100	<100	<15	--
MW9B	09/10/09	65.85	22.30	43.55	0.00	640	4,500	1,100	6,500	36,000	< 3,000	< 100	61	< 50
MW9B	12/04/09	65.85	24.00	41.85	0.00	63	250	180	620	5,600	< 300	< 100	3.1	< 5.0
MW9B	03/10/10	65.85	22.41	43.44	0.00	98	310	340	900	7,500	< 600	< 100	5.7	--
MW9B	05/28/10	65.85	22.50	43.35	0.00	31	75	150	270	2,900	< 400	< 100	2.9	--
MW9B	08/26/10	65.85	23.31	42.54	0.00	13	160	310	2,000	14,000	<1000	<100	88	--
MW9B	09/20/10	65.85	NM	NC	0.00	7	110	140	830	6,200	--	--	--	--
MW9B	12/22/10	65.85	23.20	42.65	0.00	<0.5	3	1	10	140	<50	<100	4.5	--
MW9B	03/16/11	65.85	20.14	45.71	0.00	22	39	47	290	3,500	< 300	< 100	38	--
MW9B	06/21/11	65.85	20.30	45.55	0.00	9.2	29	38	260	2200	< 300	< 100	41	--
MW9B	09/14/11	65.85	21.44	44.41	0.00	17	22	47	220	2200	< 400	< 100	66	--
MW9B	12/01/11	65.85	23.17	42.68	0.00	9	68	32	190	1,000	<50	<100	79	--
MW9B	03/08/12	65.85	23.59	42.26	0.00	3.8	6.4	13	59	560	< 50	< 100	48	--
MW9B	06/04/12	65.85	21.50	44.35	0.00	34	56	38	160	1,400	< 50	< 100	40	--
MW9B	09/06/12	65.85	23.65	42.20	0.00	1.5	1.4	2.4	15	230	< 50	< 100	11	--
MW9B	12/14/12	65.85	21.30	44.55	0.00	3	5	19	63	1,100	84	< 100	2.1	--
MW9B	03/27/13	65.85	21.69	44.16	0.00	0.61	1.8	0.50	4.3	280	< 50	< 100	0.82	--
MW9B	06/18/13	65.85	22.65	43.20	0.00	<0.5	1.2	8.30	22.0	480	75	< 100	,0.5	--
MW9B	09/24/13	65.85	23.24	42.61	0.00	--	--	--	--	--	--	--	--	--
O1	09/10/09	65.91	22.44	43.47	0.00	960	2,400	1,000	4,600	23,000	< 1,500	< 100	180	84
O1	12/04/09	65.91	24.33	41.58	0.00	1,000	3,700	1,700	7,400	38,000	< 1000	< 100	310	200
O1	03/10/10	65.91	22.20	43.71	0.00	660	2,600	970	5,300	29,000	< 1000	< 100	200	--
O1	05/28/10	65.91	22.49	43.42	0.00	610	2,000	1,000	4,200	21,000	< 1500	< 100	270	--
O1	08/26/10	65.91	23.25	42.66	0.00	29	160	59	680	5,000	<500	<100	97	--
O1	09/20/10	65.91	NM	NC	0.00	24	140	28	330	2,000	--	--	--	--
O1	12/22/10	65.91	22.70	43.21	0.00	10	35	3	30	460	<50	<100	220	--
O1	03/16/11	65.91	20.19	45.72	0.00	200	440	240	850	6,900	< 300	< 100	180	--
O1	06/21/11	65.91	20.31	45.60	0.00	320	530	400	1500	8900	< 400	< 100	260	--
O1	09/14/11	65.91	22.16	43.75	0.00	320	540	510	1500	9000	< 1000	< 100	170	--
O1	12/01/11	65.91	22.97	42.94	0.00	98	61	250	140	2,600	<80	<100	110	--
O1	03/08/12	65.91	22.79	43.12	0.00	110	120	210	250	2800	< 50	< 100	140	--
O1	06/04/12	65.91	20.44	45.47	0.00	330	470	430	1,100	8,500	< 80	< 100	200	--
O1	09/06/12	65.91	25.10	40.81	0.00	64	61	59	84	1,100	< 50	< 100	36	--
O1	12/14/12	65.91	21.38	44.53	0.00	230	120	120	230	2500	< 50	< 100	14	--
O1	03/27/13	65.91	22.17	43.74	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<100	<0.50	--
O1	06/18/13	65.91	22.79	43.12	0.00	11	19	41	41	460	<50	<100	0.63	--
O1	09/24/13	65.91	23.24	42.67	0.00	--	--	--	--	--	--	--	--	--
DPE-1	09/24/13	65.91*	22.94	42.97	0.00	380	5,000	2,400	15,000	99,000	660	<100	<20	--

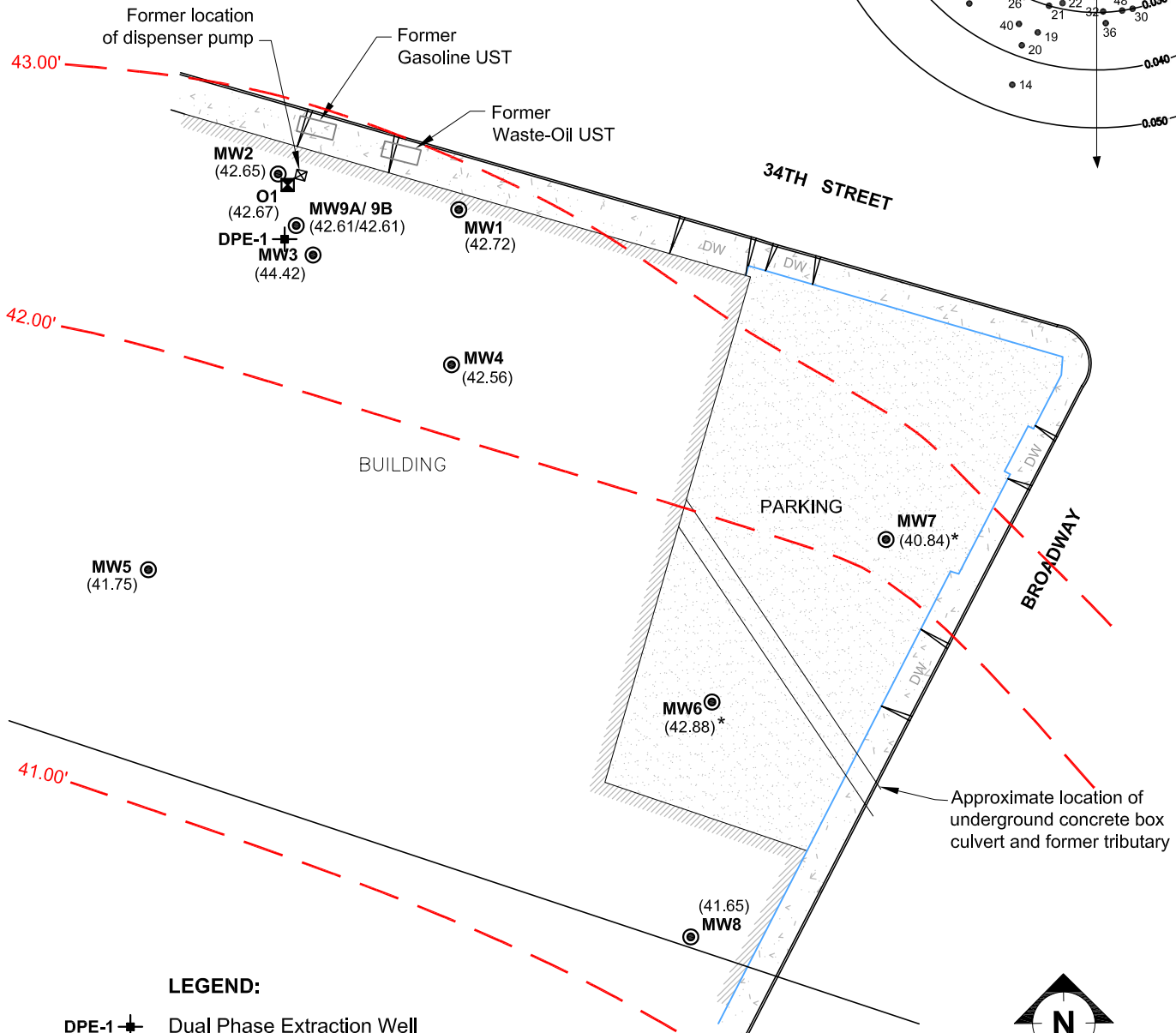
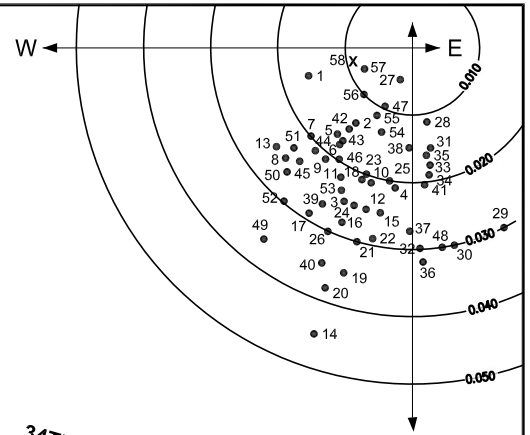
TABLE 1 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
 FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

SPH	Separate-phase hydrocarbons.
GW	Groundwater.
TPH-g	Total Petroleum Hydrocarbons as gasoline.
TPH-d	Total Petroleum Hydrocarbons as diesel.
TPH-mo	Total Petroleum Hydrocarbons as motor oil.
MTBE	Methyl tertiary butyl ether.
TBA	Tertiary Butyl Alcohol
NC	Not calculated.
NS	Not surveyed
µg/L	Micrograms per liter.
*	SPH present; not sampled.
**	Well MW4 elevation modified due to site renovation activities. Not Surveyed.
--	Not analyzed or not sampled.
<	Less than the laboratory reporting limits.
a	Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.
b	Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
c	Analysis not conducted due to broken sample containers.
d	Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.
e	Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value to the water elevation.
f	Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.
g	Sample contained discrete peak in gasoline range and identified by lab as MTBE.
h	Quantity of unknown hydrocarbon(s) in sample based on diesel.
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.
l	Resurveyed Prior to 1st Quarter 2009 Measurements
m	The well was not purged due to insufficient water.
n	Groundwater elevation corrected by substituting the "product thickness" in the water column of the well with thickness of the groundwater equivalent, determined by multiplying the specific gravity of gasoline (0.739) by the "product thickness".

FIGURE

ROSE DIAGRAM

- Historical
- X This Event



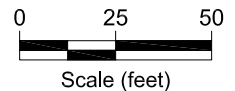
LEGEND:

- DPE-1 + Dual Phase Extraction Well
- MW1 ● Groundwater Monitoring Well
- (42.72) Groundwater Elevation (feet above mean sea level)

43.00' - - - Groundwater Elevation Contour (feet above mean sea level) dashed where inferred

* Data not used in Contouring

Building footprint (approximate)



Base Map: Virgil Chavez Land Surveying, dated January 2009.



GROUNDWATER ELEVATION CONTOUR MAP AND ROSE DIAGRAM
3RD QUARTER 2013 MONITORING EVENT
 FORMER VAL STROUGH CHEVROLET
 327 34TH STREET, OAKLAND, CALIFORNIA
 OCTOBER 2013

FIGURE:

1

Appendix A
DPE-1 Boring Log

PROJECT: **FORMER VAL STROUGH CHEVROLET**
327 34TH STREET
 Oakland, California

Log Boring DPE-1
 PAGE 1 OF 1

Date started: 9/20/13 Date finished: 9/20/13
 Drilling method: Direct Push followed by Hollow Stem Auger

Logged by: R. Rao
 Drilled By: Gregg Drilling

Sampler:

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION	WELL COMPLETION INFORMATION
	Sample Number	Sample	Blow Count	Recovery (feet)				
1						6 inches of Concrete over sand and gravel base	Flush mounted completion	
2					ML	SANDY SILT (ML) brown, stiff, moist, very fine-grained sand	Blank Casing From 0 To 14 Feet	
3								
4								
5							Neat Cement Grout From 0 To 10 Feet	
6								
7								
8						SILT (ML) tan to medium brown, stiff, moist		
9								
10							Bentonite From 10 To 12 Feet	
11								
12								
13								
14							Screened Casing From 14 To 29 Feet (0.010 inch slot)	
15						light greenish brown, stiff, moist		
16								
17								
18					ML			
19								
20							Sand From 12 To 29 Feet	
21								
22								
23						∇ strong odor of gasoline		
24								
25								
26								
27								
28								
29								
30								

Boring terminated at a depth of 29 feet below ground surface.
 Groundwater encountered at a depth of 23 feet during drilling.



Figure: DPE-1

Appendix B

Laboratory Analytical Report for Soil Samples



Laboratory Results

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

Subject : 3 Soil Samples
Project Name : Former Val Strough Chevrolet
Project Number :

Dear Mr. Javaherian,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Troy G. Turpen". The signature is written in a cursive style with a large, prominent "T" and "G".

Troy Turpen

Subject : 3 Soil Samples
Project Name : Former Val Strough Chevrolet
Project Number :

Case Narrative

All soil samples were reported on a total weight (wet weight) basis.

Project Name : **Former Val Strough Chevrolet**

Project Number :

Sample : **DPE1-5'**

Matrix : Soil

Lab Number : 86072-01

Sample Date :09/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 20:38
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 20:38
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 20:38
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 20:38
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 20:38
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/25/13 20:38
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/25/13 20:38
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	09/25/13 20:38
TPH as Diesel (Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)	3.7	1.0	mg/Kg	M EPA 8015	09/27/13 15:06
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	09/27/13 15:06
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	09/27/13 15:06

Project Name : **Former Val Strough Chevrolet**

Project Number :

Sample : **DPE1-10'**

Matrix : Soil

Lab Number : 86072-02

Sample Date :09/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 19:59
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 19:59
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 19:59
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 19:59
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/13 19:59
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/25/13 19:59
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	09/25/13 19:59
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/25/13 19:59
TPH as Diesel	1.5	1.0	mg/Kg	M EPA 8015	09/27/13 17:03
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	09/27/13 17:03
Octacosane (Diesel Surrogate)	116		% Recovery	M EPA 8015	09/27/13 17:03

Project Name : **Former Val Strough Chevrolet**

Project Number :

Sample : **DPE1-IDW'**

Matrix : Soil

Lab Number : 86072-03

Sample Date :09/20/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Lead	6.9	0.50	mg/Kg	EPA 6010B	09/26/13 12:41
Benzene	0.26	0.025	mg/Kg	EPA 8260B	09/30/13 10:07
Toluene	10	0.025	mg/Kg	EPA 8260B	09/30/13 10:07
Ethylbenzene	8.5	0.025	mg/Kg	EPA 8260B	09/30/13 10:07
Total Xylenes	64	0.25	mg/Kg	EPA 8260B	09/30/13 11:18
Methyl-t-butyl ether (MTBE)	0.015	0.0050	mg/Kg	EPA 8260B	09/25/13 21:12
TPH as Gasoline	850	25	mg/Kg	EPA 8260B	09/30/13 11:18
1,2-Dichloroethane-d4 (Surr)	95.2		% Recovery	EPA 8260B	09/30/13 10:07
Toluene - d8 (Surr)	93.1		% Recovery	EPA 8260B	09/30/13 10:07
2-Bromochlorobenzene (Surr)	82.9		% Recovery	EPA 8260B	09/30/13 10:07
TPH as Diesel	13	1.0	mg/Kg	M EPA 8015	09/27/13 17:32
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	09/27/13 17:32
Octacosane (Diesel Surrogate)	114		% Recovery	M EPA 8015	09/27/13 17:32

QC Report : Method Blank Data

Project Name : **Former Val Strough Chevrolet**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	09/26/2013
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	09/27/2013
TPH as Motor Oil	< 10	10	mg/Kg	M EPA 8015	09/27/2013
Octacosane (Diesel Surrogate)	89.6		%	M EPA 8015	09/27/2013
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/2013
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/2013
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/2013
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/2013
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/25/2013
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/25/2013
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	09/25/2013
Toluene - d8 (Surr)	99.4		%	EPA 8260B	09/25/2013
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2013
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2013
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2013
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	09/27/2013
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	09/27/2013
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/27/2013
Toluene - d8 (Surr)	99.4		%	EPA 8260B	09/27/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
-----------	----------------	------------------------	-------	-----------------	---------------

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Former Val Strough Chevrolet**

Project Number :

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
Lead	86081-01	7.5	45.4	45.4	47.3	51.7	mg/Kg	EPA 6010B	9/26/13	87.5	97.2	8.95	75-125	20
TPH as Diesel	86072-01	3.7	19.6	19.8	20.9	21.2	mg/Kg	M EPA 8015	9/27/13	87.4	88.2	0.965	60-140	25
Benzene	86075-02	<0.0050	0.0394	0.0389	0.0340	0.0317	mg/Kg	EPA 8260B	9/25/13	86.2	81.4	5.69	70.0-130	25
Ethylbenzene	86075-02	<0.0050	0.0394	0.0389	0.0339	0.0308	mg/Kg	EPA 8260B	9/25/13	85.9	79.2	8.06	70.0-130	25
Methyl-t-butyl ether	86075-02	<0.0050	0.0393	0.0388	0.0369	0.0350	mg/Kg	EPA 8260B	9/25/13	93.9	90.4	3.88	60.0-130	25
P + M Xylene	86075-02	<0.0050	0.0394	0.0389	0.0333	0.0300	mg/Kg	EPA 8260B	9/25/13	84.4	77.1	8.95	70.0-130	25
Toluene	86075-02	<0.0050	0.0394	0.0389	0.0340	0.0315	mg/Kg	EPA 8260B	9/25/13	86.2	81.0	6.28	70.0-130	25
Benzene	86112-01	<0.0050	0.0390	0.0393	0.0350	0.0351	mg/Kg	EPA 8260B	9/27/13	89.8	89.3	0.582	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Former Val Strough Chevrolet**

Project Number :

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
Ethylbenzene	86112-01	<0.0050	0.0390	0.0393	0.0348	0.0348	mg/Kg	EPA 8260B	9/27/13	89.2	88.7	0.520	70.0-130	25
P + M Xylene	86112-01	<0.0050	0.0390	0.0393	0.0343	0.0339	mg/Kg	EPA 8260B	9/27/13	88.0	86.2	2.02	70.0-130	25
Toluene	86112-01	<0.0050	0.0390	0.0393	0.0349	0.0350	mg/Kg	EPA 8260B	9/27/13	89.5	89.0	0.543	70.0-130	25

QC Report : Laboratory Control Sample (LCS)Project Name : **Former Val Strough Chevrolet**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	9/26/13	94.1	85-115
TPH as Diesel	20.0	mg/Kg	M EPA 8015	9/27/13	86.3	70-130
Benzene	0.0389	mg/Kg	EPA 8260B	9/25/13	95.8	70.0-130
Ethylbenzene	0.0389	mg/Kg	EPA 8260B	9/25/13	98.9	70.0-130
Methyl-t-butyl ether	0.0388	mg/Kg	EPA 8260B	9/25/13	99.4	60.0-130
P + M Xylene	0.0389	mg/Kg	EPA 8260B	9/25/13	98.2	70.0-130
Toluene	0.0389	mg/Kg	EPA 8260B	9/25/13	97.1	70.0-130
Benzene	0.0388	mg/Kg	EPA 8260B	9/27/13	90.0	70.0-130
Ethylbenzene	0.0388	mg/Kg	EPA 8260B	9/27/13	92.5	70.0-130
P + M Xylene	0.0388	mg/Kg	EPA 8260B	9/27/13	89.8	70.0-130
Toluene	0.0388	mg/Kg	EPA 8260B	9/27/13	90.6	70.0-130



2795 2nd Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No. 86072

Page ___ of ___

Project Contact (Hardcopy or PDF To): Mehrdad Javaherian
 Company / Address: LRM Consulting
 Phone Number: 415-706-8935
 Fax Number:
 Project #: P.O. #:
 Project Name: Former Val Straph Chevrolet
 California EDF Report? Yes No
 Sampling Company Log Code:
 Global ID:
 EDF Deliverable To (Email Address): m.javaherian@lrm-consulting.com
 Bill to: m.javaherian@lrm-consulting.com
 Sampler Print Name: Ramkishore Rao
 Sampler Signature: Ramkishore Rao

Chain-of-Custody Record and Analysis Request

Project Address: <u>327 34th St Oakland, CA</u>	Sampling		Container				Preservative			Matrix			Analysis Request	TAT		
	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil			Air	
Sample Designation: <u>DPEI - 5'</u>	<u>9/20</u>	<u>11:45</u>		X												<input type="checkbox"/> 12 hr
<u>DPEI - 10'</u>	<u>9/20</u>	<u>12:00</u>		X							X					<input type="checkbox"/> 24 hr
<u>DPEI - IDW</u>	<u>9/20</u>	<u>2:00 pm</u>		X							X					<input type="checkbox"/> 48hr
																<input type="checkbox"/> 72hr
																<input checked="" type="checkbox"/> 1 wk

Relinquished by: Ramkishore Rao Date: 9/23 Time: 1:12
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: 092313 Time: 1312 Received by Laboratory: Roz McSee Kiff Analytical

Remarks:

CIRCLE METHOD
 12 hr
 24 hr
 48hr
 72hr
 1 wk

For Lab Use Only

060409

Appendix C

Groundwater Monitoring Field Forms

Purging And Sampling Data Sheet

Job Number: TMSTROUGH		Sampler: S. POLSTON		Client: VAL STROUGH	
Well ID: MW9A		Date: 9/24/2013		Site: FORMER CHEVY OAKLAND	
Well Diameter: 2		DTW: 23.30		Total Depth 24.9	
Purge Equipment PURGE PUMP		BAILER		Tubing (OD) 1/2"	
Purge Method		3- 5 Casing Vol		Micro/low Flow Extraction Well Other:	
Multipliers		1"= 0.04, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47 Gallons per liner foot			
Total Depth - DTW X Multplier = 1 casing vol.			80% Recovery = Total Depth -DTW X .20 + DTW		

1 volume = 1.6 X .16 = .26 Gallons 80% = _____

Time	ph	Temp	Cond	Turb	DO	ORP	Gallons	Notes
1232	8.03	20.2	1.30	300	3.57	-135	.3	
1234	7.99	20.1	1.25	286	3.57	-142	.55	
1236	7.97	20.1	1.26	205	3.91	-116	.80	
1241	7.92	20.1	1.16	189	3.45	-106	1.0	

Well Dewater Yes / No		Total Volume Removed: 1.0 Gallons	
Sample Method: Disp Bailer		New Tubing Sample port Other:	
Sample Date: 9/24/2013	Sample Time: 1241	DTW at Sample:	
Sample ID: MW9A	Lab: KIFF	Number of Containers: 5	
Analysis: TPH- Gas, BTEX, MTBE, TEPH			

Notes:

Purging And Sampling Data Sheet

Job Number: TMSTROUGH		Sampler: S. POLSTON		Client: VAL STROUGH	
Well ID: MW2		Date: 9/24/2013		Site: FORMER CHEVY OAKLAND	
Well Diameter: 2		DTW: 7586 23.00		Total Depth 32.0	
Purge Equipment PURGE PUMP		Tubing (OD) 1/2"		New Dedicated	
Purge Method		3- 5 Casing Vol Micro/low Flow Extraction Well Other:			
Multipliers		1"= 0.04, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47 Gallons per liner foot			
Total Depth - DTW X Multplier = 1 casing vol.			80% Recovery = Total Depth -DTW X .20 + DTW		

1 volume = 91575 X .16 = 1144 Gallons 80% = _____'

Time	ph	Temp	Cond	Turb	DO	ORP	Gallons	Notes
1104	7.32	20.1	1.72	>500	9.6	-153	.25	
1107	7.91	20.8	1.40	58.7	9.03	-157	1.5	
1114	7.91	20.93	1.33	12.7	9.0	-147	3.0	
1119	7.93	20.9	1.32	5.0	9.0	-136	4.5	
1121	7.91	20.8	1.30	5.6	7.7	-131	5.0	

Well Dewater Yes <input checked="" type="checkbox"/> No		Total Volume Removed: 5.0 Gallons	
Sample Method: Disp Bailer New Tubing Sample port Other:			
Sample Date: 9/24/2013	Sample Time: 1121	DTW at Sample:	
Sample ID: MW2	Lab: KIFF	Number of Containers: 5	
Analysis: TPH- Gas, BTEX, MTBE, TEPH			

Notes:

Purging And Sampling Data Sheet

Job Number: TMSTROUGH		Sampler: S. POLSTON		Client: VAL STROUGH	
Well ID: MW3		Date: 9/24/2013		Site: FORMER CHEVY OAKLAND	
Well Diameter: 2		DTW: 23.06		Total Depth 32	
Purge Equipment PURGE PUMP			Tubing (OD) 1/2"		New Dedicated
Purge Method		3- 5 Casing Vol Micro/low Flow Extraction Well Other:			
Multipliers		1"= 0.04, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47 Gallons per liner foot			
Total Depth - DTW X Multplier = 1 casing vol.			80% Recovery = Total Depth -DTW X .20 + DTW		

1 volume = 6.94 X .16 = 1.143 Gallons 80% = _____

Time	ph	Temp	Cond	Turb	DO	ORP	Gallons	Notes
1136	7.68	20.3	1.3	5000	6.74	-128	1.5	
1139	7.66	20.4	1.31	167	7.8	-141	1.5	
1142	7.58	20.4	1.28	59.6	6.6	-135	3.0	
1145	7.47	20.3	1.27	26.6	6.52	-125	4.5	
1148	7.53	20.3	1.26	62.2	6.43	-117	5.0	

Well Dewater		Yes/No No		Total Volume Removed: 5.0 Gallons	
Sample Method:		Disp Bailer New Tubing Sample port Other:			
Sample Date: 9/24/2013		Sample Time: 1148		DTW at Sample:	
Sample ID: MW3		Lab: KIFF		Number of Containers: 5	
Analysis: TPH- Gas, BTEX, MTBE, TEPH					

Notes:

Purging And Sampling Data Sheet

Job Number: TMSTROUGH		Sampler: S. POLSTON		Client: VAL STROUGH	
Well ID: DPE-1		Date: 9/24/2013		Site: FORMER CHEVY OAKLAND	
Well Diameter: 4		DTW: 22.94		Total Depth 28.6	
Purge Equipment PURGE PUMP			Tubing (OD) 1/2"		New Dedicated
Purge Method		3- 5 Casing Vol Micro/low Flow Extraction Well Other:			
Multipliers		1"= 0.04, 2"=0.16, 3"=0.37, 4"=0.65, 5"=1.02, 6"=1.47 Gallons per liner foot			
Total Depth - DTW X Multiplier = 1 casing vol.			80% Recovery = Total Depth -DTW X .20 + DTW		

1 volume = 5.66 X ¹⁶⁵16 = 93167 Gallons 80% = _____

Time	ph	Temp	Cond	Turb	DO	ORP	Gallons	Notes
1205	7.90	20.2	1.42	75000	6.50	-99	4.5	
1206	8.07	20.6	3.12	5000	2.75	-61	7.5	4.0
1210	8.12	20.7	2.4	75000	2.8	-76	11.0	7.5
1213	8.06	20.6	2.08	75000	2.83	-89	11.0	
1215	7.67	20.4	2.01	75000	2.78	-85	11.5	

Well Dewater Yes / No		Total Volume Removed: 11.5 Gallons	
Sample Method: Disp Bailer New Tubing Sample port Other: _____			
Sample Date: 9/24/2013		Sample Time: 1215 DTW at Sample:	
Sample ID: DPE-1		Lab: KIFF Number of Containers: 5	
Analysis: TPH- Gas, BTEX, MTBE, TEPH			

Notes:

Appendix D

Laboratory Analytical Report for Groundwater Samples



Laboratory Results

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

Subject : 4 Water Samples
Project Name : FORMER VAL STROUGH CHEVROLET
Project Number : TM STROUGH

Dear Mr. Javaherian,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen

Subject : 4 Water Samples
Project Name : FORMER VAL STROUGH CHEVROLET
Project Number : TM STROUGH

Case Narrative

Sample DPE-1 was centrifuged and decanted prior to extraction by EPA Modified Method 8015. This is a modification to Kiff Analytical's standard procedure. Any hydrocarbons that were adsorbed to the original container surfaces or sediment that remained in the original container were likely excluded.

Matrix Spike/Matrix Spike Duplicate results associated with sample DPE-1 for the analyte P + M Xylene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with sample MW2 for the analytes Ethylbenzene and Toluene were affected by the analyte concentrations already present in the un-spiked sample.

Project Name : **FORMER VAL STROUGH CHEVROLET**

Project Number : **TM STROUGH**

Sample : **MW2**

Matrix : Water

Lab Number : 86078-01

Sample Date :09/24/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	49	0.50	ug/L	EPA 8260B	09/30/13 17:33
Toluene	250	0.50	ug/L	EPA 8260B	09/30/13 17:33
Ethylbenzene	100	0.50	ug/L	EPA 8260B	09/30/13 17:33
Total Xylenes	690	5.0	ug/L	EPA 8260B	09/27/13 23:30
Methyl-t-butyl ether (MTBE)	3.1	0.50	ug/L	EPA 8260B	09/30/13 17:33
TPH as Gasoline	4300	50	ug/L	EPA 8260B	09/30/13 17:33
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	09/30/13 17:33
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/30/13 17:33
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/27/13 16:34
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	09/27/13 16:34
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	09/27/13 16:34

Project Name : **FORMER VAL STROUGH CHEVROLET**

Project Number : **TM STROUGH**

Sample : **MW3**

Matrix : Water

Lab Number : 86078-02

Sample Date :09/24/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	14	0.50	ug/L	EPA 8260B	09/27/13 14:47
Toluene	56	0.50	ug/L	EPA 8260B	09/27/13 14:47
Ethylbenzene	24	0.50	ug/L	EPA 8260B	09/27/13 14:47
Total Xylenes	100	0.50	ug/L	EPA 8260B	09/27/13 14:47
Methyl-t-butyl ether (MTBE)	0.60	0.50	ug/L	EPA 8260B	09/27/13 14:47
TPH as Gasoline	970	50	ug/L	EPA 8260B	09/27/13 14:47
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	09/27/13 14:47
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/13 14:47
TPH as Diesel (w/ Silica Gel) (Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)	130	50	ug/L	M EPA 8015	09/27/13 17:03
TPH as Motor Oil (w/ Silica Gel)	170	100	ug/L	M EPA 8015	09/27/13 17:03
Octacosane (Silica Gel Surr)	112		% Recovery	M EPA 8015	09/27/13 17:03

Project Name : **FORMER VAL STROUGH CHEVROLET**

Project Number : **TM STROUGH**

Sample : **MW9A**

Matrix : Water

Lab Number : 86078-03

Sample Date :09/24/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	870	15	ug/L	EPA 8260B	09/28/13 00:05
Toluene	6000	15	ug/L	EPA 8260B	09/28/13 00:05
Ethylbenzene	1800	15	ug/L	EPA 8260B	09/28/13 00:05
Total Xylenes	11000	15	ug/L	EPA 8260B	09/28/13 00:05
Methyl-t-butyl ether (MTBE)	< 15	15	ug/L	EPA 8260B	09/28/13 00:05
TPH as Gasoline	58000	1500	ug/L	EPA 8260B	09/28/13 00:05
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/28/13 00:05
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/28/13 00:05
TPH as Diesel (w/ Silica Gel)	100	50	ug/L	M EPA 8015	09/27/13 17:32
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	09/27/13 17:32
Octacosane (Silica Gel Surr)	114		% Recovery	M EPA 8015	09/27/13 17:32

Project Name : **FORMER VAL STROUGH CHEVROLET**

Project Number : **TM STROUGH**

Sample : **DPE-1**

Matrix : Water

Lab Number : 86078-04

Sample Date :09/24/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	380	20	ug/L	EPA 8260B	09/30/13 22:26
Toluene	5000	20	ug/L	EPA 8260B	09/30/13 22:26
Ethylbenzene	2400	20	ug/L	EPA 8260B	09/30/13 22:26
Total Xylenes	15000	20	ug/L	EPA 8260B	09/30/13 22:26
Methyl-t-butyl ether (MTBE)	< 20	20	ug/L	EPA 8260B	09/30/13 22:26
TPH as Gasoline	99000	2000	ug/L	EPA 8260B	09/30/13 22:26
1,2-Dichloroethane-d4 (Surr)	97.1		% Recovery	EPA 8260B	09/30/13 22:26
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	09/30/13 22:26
TPH as Diesel (w/ Silica Gel)	660	50	ug/L	M EPA 8015	10/01/13 08:12
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	10/01/13 08:12
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	10/01/13 08:12

QC Report : Method Blank Data

Project Name : **FORMER VAL STROUGH CHEVROLET**

Project Number : **TM STROUGH**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	09/27/2013
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	09/27/2013
Octacosane (Silica Gel Surr)	114		%	M EPA 8015	09/27/2013
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2013
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	10/01/2013
Octacosane (Silica Gel Surr)	106		%	M EPA 8015	10/01/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/30/2013
1,2-Dichloroethane-d4 (Surr)	99.7		%	EPA 8260B	09/30/2013
Toluene - d8 (Surr)	101		%	EPA 8260B	09/30/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/2013
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	09/27/2013
Toluene - d8 (Surr)	101		%	EPA 8260B	09/27/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/2013
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/27/2013
Toluene - d8 (Surr)	101		%	EPA 8260B	09/27/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/30/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/30/2013
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/30/2013
Toluene - d8 (Surr)	102		%	EPA 8260B	09/30/2013

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **FORMER VAL STROUGH CHEVROLET**Project Number : **TM STROUGH**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	880	893	ug/L	M EPA 8015	9/27/13	88.0	89.3	1.53	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	969	916	ug/L	M EPA 8015	10/1/13	96.9	91.6	5.61	70-130	25
Benzene	86077-30	<0.50	40.0	40.0	41.3	39.5	ug/L	EPA 8260B	9/30/13	103	98.8	4.36	70.0-130	25
Ethylbenzene	86077-30	<0.50	40.0	40.0	29.5	28.3	ug/L	EPA 8260B	9/30/13	73.7	70.7	4.15	70.0-130	25
Methyl-t-butyl ether	86077-30	<0.50	39.9	39.9	41.4	40.0	ug/L	EPA 8260B	9/30/13	104	100	3.44	70.0-130	25
P + M Xylene	86077-30	<0.50	40.0	40.0	13.0	12.7	ug/L	EPA 8260B	9/30/13	32.6	31.8	2.34	70.0-130	25
Toluene	86077-30	<0.50	40.0	40.0	29.4	28.4	ug/L	EPA 8260B	9/30/13	73.6	71.1	3.45	70.0-130	25
Benzene	86066-03	<0.50	40.0	40.0	40.8	39.8	ug/L	EPA 8260B	9/27/13	102	99.4	2.53	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **FORMER VAL STROUGH CHEVROLET**Project Number : **TM STROUGH**

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
Ethylbenzene	86066-03	<0.50	40.0	40.0	41.8	40.9	ug/L	EPA 8260B	9/27/13	104	102	2.09	70.0-130	25
Methyl-t-butyl ether	86066-03	<0.50	39.9	39.9	40.4	40.0	ug/L	EPA 8260B	9/27/13	101	100	0.942	70.0-130	25
P + M Xylene	86066-03	<0.50	40.0	40.0	43.2	42.4	ug/L	EPA 8260B	9/27/13	108	106	1.82	70.0-130	25
Toluene	86066-03	<0.50	40.0	40.0	41.5	40.6	ug/L	EPA 8260B	9/27/13	104	101	2.19	70.0-130	25
Benzene	86084-01	<0.50	40.0	40.0	40.2	38.9	ug/L	EPA 8260B	9/27/13	100	97.3	3.17	70.0-130	25
Ethylbenzene	86084-01	<0.50	40.0	40.0	41.8	40.3	ug/L	EPA 8260B	9/27/13	104	101	3.48	70.0-130	25
Methyl-t-butyl ether	86084-01	<0.50	39.9	39.9	39.7	39.5	ug/L	EPA 8260B	9/27/13	99.6	99.0	0.540	70.0-130	25
P + M Xylene	86084-01	<0.50	40.0	40.0	42.8	41.7	ug/L	EPA 8260B	9/27/13	107	104	2.61	70.0-130	25
Toluene	86084-01	<0.50	40.0	40.0	41.0	40.0	ug/L	EPA 8260B	9/27/13	102	100	2.40	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **FORMER VAL STROUGH CHEVROLET**Project Number : **TM STROUGH**

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
Benzene	86078-01	49	40.0	40.0	95.1	87.1	ug/L	EPA 8260B	9/30/13	114	94.6	19.0	70.0-130	25
Ethylbenzene	86078-01	100	40.0	40.0	150	137	ug/L	EPA 8260B	9/30/13	124	90.5	31.1	70.0-130	25
Methyl-t-butyl ether	86078-01	3.1	39.9	39.9	43.7	40.4	ug/L	EPA 8260B	9/30/13	102	93.4	8.60	70.0-130	25
Toluene	86078-01	250	40.0	40.0	309	285	ug/L	EPA 8260B	9/30/13	148	86.0	52.8	70.0-130	25

QC Report : Laboratory Control Sample (LCS)

Project Name : **FORMER VAL STROUGH CHEVROLET**Project Number : **TM STROUGH**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	39.8	ug/L	EPA 8260B	9/30/13	97.9	70.0-130
Ethylbenzene	39.8	ug/L	EPA 8260B	9/30/13	99.4	70.0-130
Methyl-t-butyl ether	39.7	ug/L	EPA 8260B	9/30/13	98.6	70.0-130
P + M Xylene	39.8	ug/L	EPA 8260B	9/30/13	90.6	70.0-130
TPH as Gasoline	492	ug/L	EPA 8260B	9/30/13	95.3	70.0-130
Toluene	39.8	ug/L	EPA 8260B	9/30/13	95.2	70.0-130
Benzene	40.1	ug/L	EPA 8260B	9/27/13	98.4	70.0-130
Ethylbenzene	40.1	ug/L	EPA 8260B	9/27/13	102	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	9/27/13	97.4	70.0-130
P + M Xylene	40.1	ug/L	EPA 8260B	9/27/13	105	70.0-130
TPH as Gasoline	494	ug/L	EPA 8260B	9/27/13	97.5	70.0-130
Toluene	40.1	ug/L	EPA 8260B	9/27/13	101	70.0-130
Benzene	40.2	ug/L	EPA 8260B	9/27/13	99.4	70.0-130
Ethylbenzene	40.2	ug/L	EPA 8260B	9/27/13	103	70.0-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/27/13	98.0	70.0-130
P + M Xylene	40.2	ug/L	EPA 8260B	9/27/13	107	70.0-130
TPH as Gasoline	494	ug/L	EPA 8260B	9/27/13	97.3	70.0-130
Toluene	40.2	ug/L	EPA 8260B	9/27/13	101	70.0-130
Benzene	40.0	ug/L	EPA 8260B	9/30/13	101	70.0-130

QC Report : Laboratory Control Sample (LCS)Project Name : **FORMER VAL STROUGH CHEVROLET**Project Number : **TM STROUGH**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Ethylbenzene	40.0	ug/L	EPA 8260B	9/30/13	103	70.0-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	9/30/13	99.8	70.0-130
TPH as Gasoline	490	ug/L	EPA 8260B	9/30/13	95.7	70.0-130
Toluene	40.0	ug/L	EPA 8260B	9/30/13	103	70.0-130



2795 2nd Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No. 820078

Page 1 of 1

Project Contact (Hardcopy or PDF To): **MERHDAD JAVAHERIAN**
 California EDF Report? Yes No
 Company / Address: **LRM CONSULTING**
 Sampling Company Log Code:
1534 PLAZA LANE, 94010
 Phone Number: **415.706.8935**
 Global ID: **T06001201644**
 Fax Number:
 EDF Deliverable To (Email Address):
 Project #: **TM STROUGH** P.O. #:
 Bill to: *LRM*
 Project Name: **FORMER VAL STROUGH CHEVROLET**
 Sampler Print Name: **SCOTT POLSTON**
 Sampler Signature: *[Signature]*

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		Container				Preservative			Matrix			MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	PLEASE CIRCLE METHOD		SILICA GEL CLEAN UP	TAT			
	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil												Air	12 hr			24 hr	48 hr	72 hr
MW2	9/24/2013	1121	X					X			X			X	X	X					X	X			X					01
MW3	9/24/2013	1148	X					X			X			X	X	X					X	X			X					02
MW9A	9/24/2013	1241	X					X			X			X	X	X					X	X			X					03
DPE-1	9/24/2013	1215	X					X			X			X	X	X					X	X			X	X				04

Analysis Request	TAT
MTBE @ 0.5 ppb (EPA 8260B)	<input type="checkbox"/>
BTEX (EPA 8260B)	<input type="checkbox"/>
TPH Gas (EPA 8260B)	<input type="checkbox"/>
5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	<input type="checkbox"/>
7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	<input type="checkbox"/>
Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	<input type="checkbox"/>
Volatile Halocarbons (EPA 8260B)	<input type="checkbox"/>
Volatile Organics Full List (EPA 8260B)	<input type="checkbox"/>
Volatile Organics (EPA 524.2 Drinking Water)	<input type="checkbox"/>
TPH as Diesel (EPA 8015M)	<input type="checkbox"/>
TPH as Motor Oil (EPA 8015M)	<input type="checkbox"/>
CAM 17 Metals (EPA 200.7 / 6010)	<input type="checkbox"/>
5 Waste Oil Metals (Cd, Cr, Ni, Pb, Zn) (EPA 200.7 / 6010)	<input type="checkbox"/>
Mercury (EPA 245.1 / 7470 / 7471)	<input type="checkbox"/>
Total Lead (EPA 200.7 / 6010)	<input type="checkbox"/>
W.E.T. Lead (STLC)	<input type="checkbox"/>
SILICA GEL CLEAN UP	<input type="checkbox"/>

Capillary Sam 2 Sampling

For Lab Use Only

Relinquished by: *[Signature]* Date: 9/24/13 Time: _____ Received by: _____
 Relinquished by: _____ Date: _____ Time: _____ Received by: _____
 Relinquished by: _____ Date: 092413 Time: 1334 Received by Laboratory: Michelle Spencer

Remarks: _____

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Page 13 of 14

SAMPLE RECEIPT CHECKLIST

SRG #: 86078

Sample Receipt	Initials/Date: MAS 092413	Storage Time: 1625	Sample Login	Initials/Date: MAS 092613
TAT: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Split <input type="checkbox"/> None			Method of Receipt: <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Over-the-counter <input type="checkbox"/> Shipped	
Temp °C: 2,2 <input type="checkbox"/> N/A	Therm ID: FR-1 FR-2 MAS 092413	Time: 1622	Coolant present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Water <input type="checkbox"/> Temp Excursion
For Shipments Only:	Cooler Receipt Initials/Date/Time:	Custody Seals <input type="checkbox"/> N/A <input type="checkbox"/> Intact <input type="checkbox"/> Broken		

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X		
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?			<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?		X	
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?		X	
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments:

Receipt Details:

Matrix	Container Type	# of Containers
WA	VDA	20

CS Required:

Proceed With Analysis: <input type="checkbox"/> YES <input type="checkbox"/> NO	Init/Date:
Client Communication:	