November 30, 2007

QUARTERLY MONITORING REPORT
3rd Quarter, 2007

245 8th Street
Oakland, California 94607

AEI Project No. 111783
ACEH Case No. RO0000202 / State ID 263

Prepared For

Mr. Vic Lum
Vic's Automotive
245 8th Street
Oakland, CA 94607

Prepared By

AEI Consultants
2500 Camino Diablo Blvd., Suite 200
Walnut Creek, California 94597
(925) 283-6000

AEI

AEI CONSULTANTS
ENVIRONMENTAL & ENGINEERING SERVICES
2500 Camino Diablo, Walnut Creek, CA 94597
tel 800-801-3224
fax 925-944-2895
www.aeiconsultants.com

November 30, 2007

Mr. Vic Lum
Vic's Automotive
245 8th Street
Oakland, CA 94607

Subject: **Quarterly Monitoring Report**
3rd Quarter, 2007
245 8th Street
Oakland, California 94607
AEI Project No. 111783
ACEH No. RO0000202 / State ID 263

Dear Mr. Lum:

AEI Consultants (AEI) has prepared this report on behalf of Mr. Vic Lum of Vic's Automotive and documents the ongoing groundwater and soil gas investigation at the above-referenced property (Figure 1). This investigation was initiated by the property owner in accordance with the requirements of the Alameda County Environmental Health (ACEH) local oversight program. The purpose of this investigation is to monitor pollution associated with the release of fuel hydrocarbons from the former underground storage tank system. This report presents the findings of the 3rd Quarter, 2007 monitoring.

I. Site Description and Background

The subject property (hereafter referred to as the "site" or "property") is located in a mixed commercial and residential area of Oakland. The site is a lot on the south corner of Alice Street and 8th Street, and is currently developed with a gasoline station and auto repair facility (Figure 2). The property covers approximately 9,375 square feet and is improved with an approximately 1,200 square foot building located centrally on the property used for automotive repair, cashier, and office. The current UST hold and the dispenser island are located to the north of the building, along 8th Street. The remainder of the property is paved with asphalt.

Between June 1993 and August 1994, AEI removed a total of seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000-gallon and two (2) 6,000-gallon gasoline tanks and one (1) 250-gallon waste oil tank. The former locations of the tanks are shown

on Figure 2. Impacted soil was removed from beneath the former tank area. Groundwater was encountered beneath the former 6,000-gallon tanks. Light non-aqueous phase liquid (LNAPL) was observed on the water table beneath the southern tank. The excavated soil was transported to an appropriate disposal facility and the excavation was backfilled with clean fill material. A new tank system was installed just west of the dispenser island.

Two groundwater monitoring wells (MW-1 and MW-2) were installed in July 1995. The first two episodes of monitoring revealed total petroleum hydrocarbons as gasoline (TPH-g) and Benzene up to 210,000 µg/L and 720 µg/L, respectively, in MW-2. Free phase gasoline product (LNAPL), was discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996. Additional investigation was conducted in August 1996; monitoring and LNAPL recovery occurring intermittently through 1998.

Monitoring wells (MW-3 and MW-4) were installed in May 2001 following by additiona onsite and offsite characterization in 2003 and 2005. A high vacuum dual phase extraction (HVDPE) pilot test was performed in July 2005. Based on the results of the test, an HVDPE system was installed in 2006 / 2007. The system is currently operational.

II. Summary of Groundwater Monitoring Activities

AEI performed monitoring acitivities in wells MW-1 through MW-7 and MW-10 through MW-12 on September 5, 2007. The well locations are shown in Figure 2. The depth from the top of the well casings was measured with an electric water level indicator prior to sampling. An oil-water interface meter was used to measure thickness of LNAPL in MW-1, MW-2, MW-7 and MW-11. All eight (8) wells with no measurable free product (MW-1through MW-12) were purged of at least three well volumes of water with a submersible purge pump and sampled using disposable polyethylene bailers.

Temperature, turbidity, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured during the purging of the wells. The turbidity was visually noted. Once temperature, pH, specific conductivity stabilized after three consecutive readings and following the recovery of water levels to at least 90%, a water sample was collected. The well locations are shown in Figure 2.

The groundwater samples were collected with disposable bailers into 40-millileter (mL) volatile organic analysis (VOA) vials and capped so that neither head space nor air bubbles were present within the sample containers. Samples were preserved on ice and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Bay Point, California (Department of Health Services Certification #1644). The eight (8) groundwater samples were submitted for chemical analysis for analyses of TPH-g by Method SW8015Cm and Benzene, Toluene, Ethylbenzene, and total Xylenes and MTBE by Method SW8021B.

III. Field Results

No measurable thickness of free product was encountered in the monitoring wells. However, sheen of LNAPL was noted in well MW-1, MW-2, MW-7, and MW-11.

Groundwater elevations for this monitoring event ranged from 14.75 (MW-11) to 17.27 (MW-6) feet above mean sea level (amsl). The groundwater elevations are likely influenced by remediating extraction. Historically groundwater flow direction is southerly

Groundwater elevation data are summarized in Table 1. A summary of the average groundwater elevations and flow directions are presented in Table 2. Water table contours are shown on Figure 5. Refer to Appendix A for the Monitoring Well Field Sampling Forms.

IV. Summary of Soil Gas Sampling Activities

Soil gas sampling was not conducted during the 3rd Quarter.

V. Groundwater Monitoring Results

For this monitoring event, the highest detected concentrations of fuel hydrocarbons were in MW-10, MW-11, and MW-12. TPH-g, benzene, toluene, ethylbenzene, total xylenes, and MTBE were detected in these wells at concentrations up to 200,000 µg/L, 34,000 µg/L, 36,000 µg/L, 3,700 µg/L, 23,000 µg/L, and 38,000 µg/L, respectively. Lower but significant concentrations of TPH-g were detected in MW-1 (47,000 µg/L), MW-2 (25,000µg/L), MW-5 (36,000 µg/L), MW-6 (74,000 µg/L), and MW-7 (14,000 µg/L). Non-detectable concentrations at laboratory reporting limits of fuel hydrocarbons were detected in MW-3 and MW-4.

A summary of groundwater sample analytical data is presented in Table 3 and on Figure 3. Laboratory analytical reports and chain of custody documents are included in Appendix B.

VI. Summary and Upcoming Activities

This report presents the findings of the 3rd Quarter, 2007 groundwater monitoring. The results of this groundwater monitoring episode are generally consistent with previous episodes. Significant LNAPL has been largely absent since HVPDE began operation, although elevated dissolved phase concentrations remain on and offsite.

The HVDPE system was expanded in November 2007 to begin extraction on wells MW-10 through MW-12. During the 4th Quarter 2007 and 1st Quarter 2008, the following activities are planned:

- The 4th Quarter 2007 groundwater monitoring event is scheduled for early December 2007. Soil gas sampling is planned for the 4th Quarter, is soils are sufficiently dry for sample collection.

- Continue operation of the HVPDE activities, including regular operation and maintenance, optimization, and appropriate water and air discharge compliance sampling and reporting

- Permitting is underway with the City of Oakland for the offsite groundwater monitoring wells. Once encroachment permits are approved, the appropriate well drilling and excavation permits will be obtained and ACHCSA notified of the schedule. Well installation is expected during the 1st Quarter 2008.

VII. Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide requested information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and geology fields that existed at the time and location of the work. If you have any questions or need any additional information, please contact either of the undersigned at (925) 283-6000.

Sincerely,
AEI Consultants

Leah Goldberg
Staff Geologist

Ricky Bradford
Senior Staff Engineer

Peter J. McIntyre, PG, REA
Senior Project Manager

REGISTERED GEOLOGIST
PETER J. MCINTYRE
Exp. 9/11/08
No. 7702
STATE OF CALIFORNIA

Figures

Tables

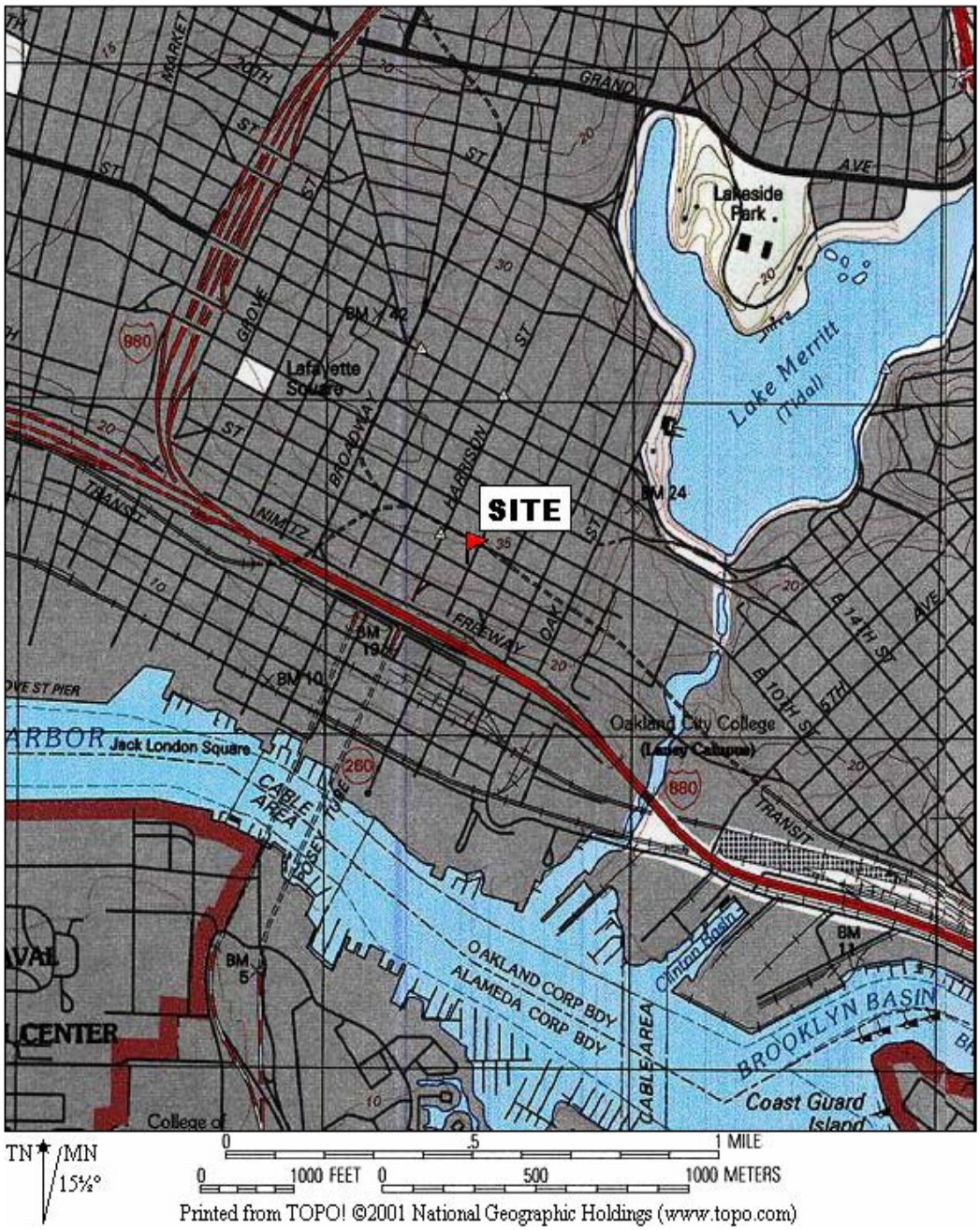
Report Distribution

1) Mr. Victor Lum
Vic's Automotive
245 8th Street
Oakland, CA 94607

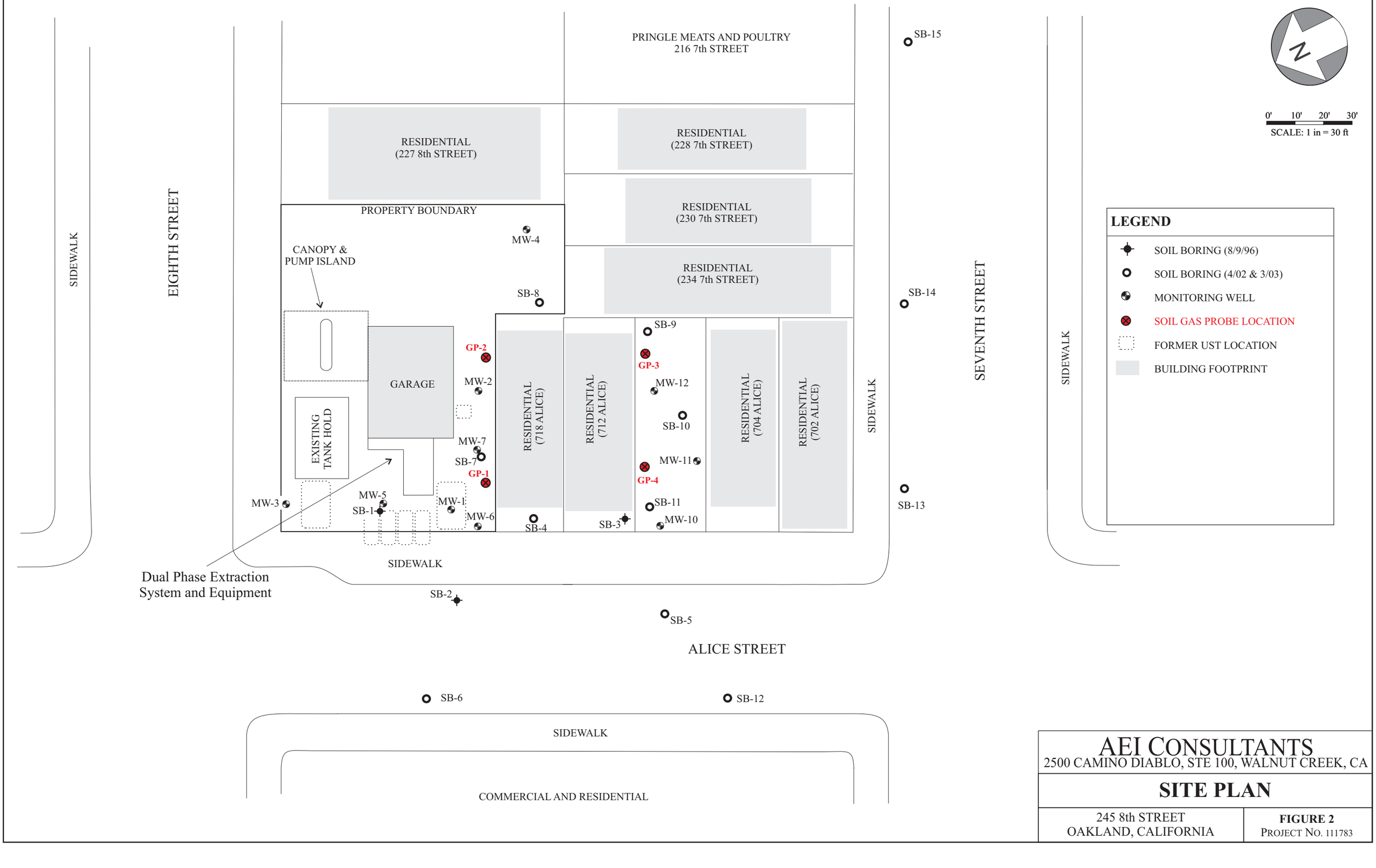
2) Mr. Jerry Wickham (electronic copy)
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

3) Geotracker

FIGURES



AEI CONSULTANTS 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597	
SITE LOCATION PLAN	
245 8th Street Oakland, California	**FIGURE 1** Job No: 111783



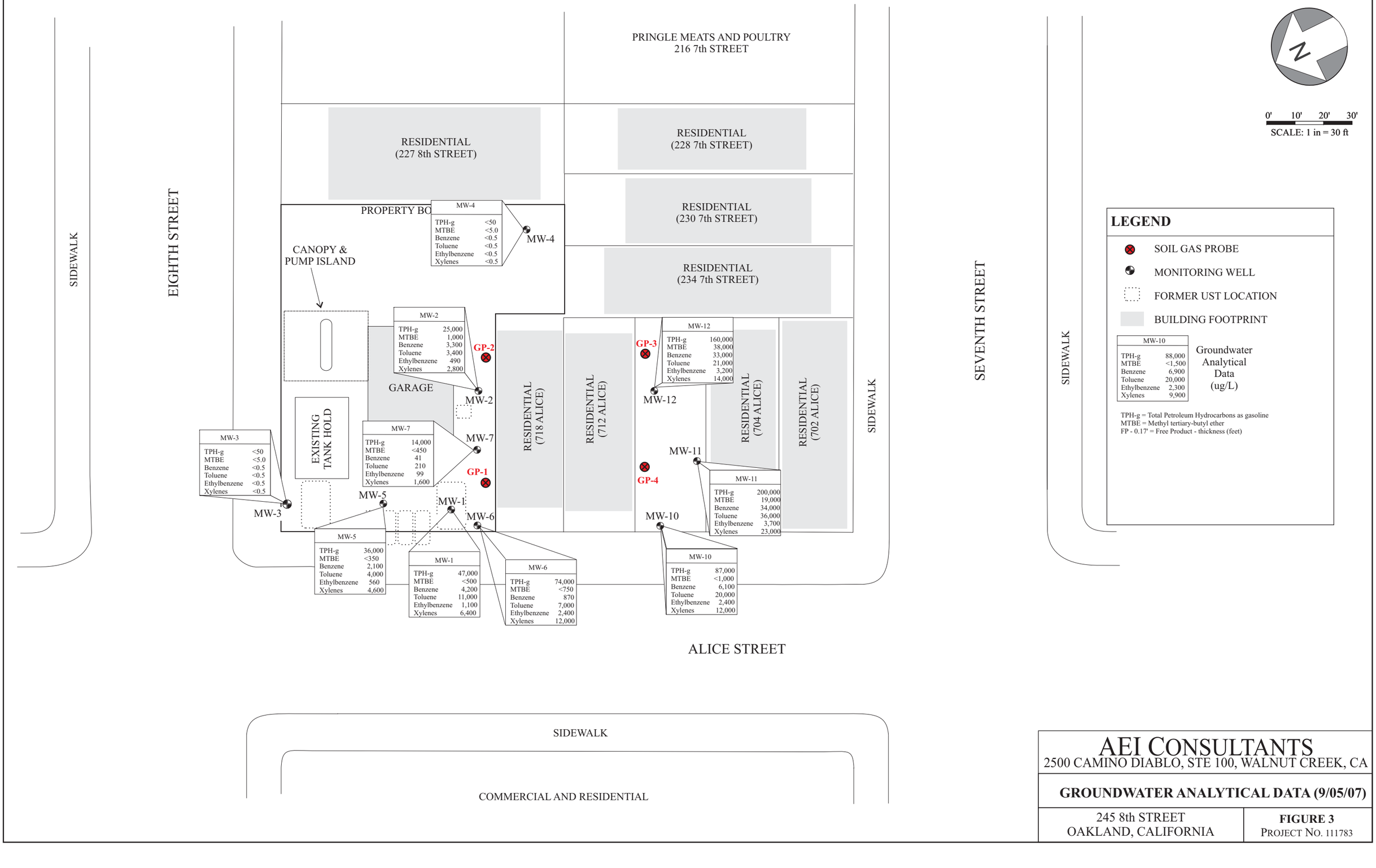
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SITE PLAN

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 111783



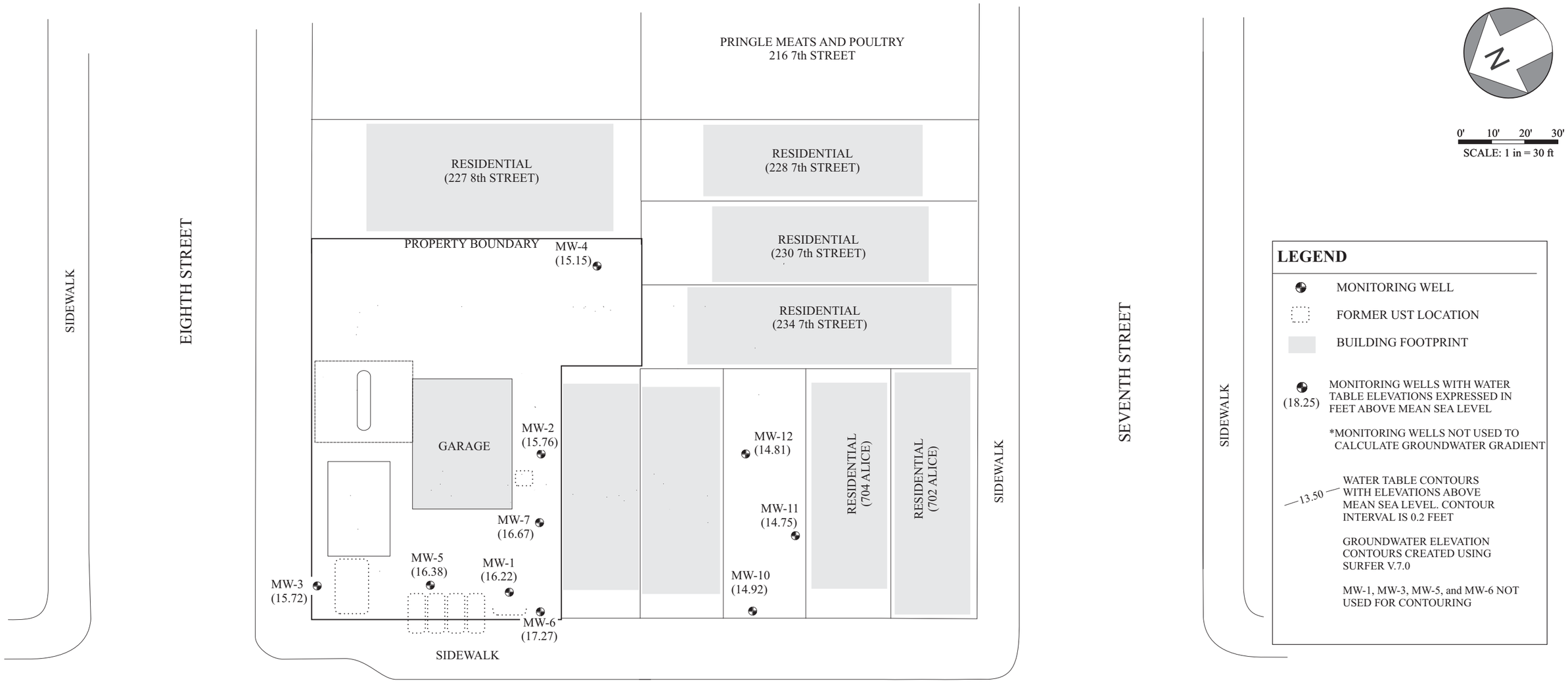
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ANALYTICAL DATA (9/05/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 111783



AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ELEVATION CONTOURS (09/05/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 111783

TABLES

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-1	6/29/2001	27.73	16.52	11.21	14.89	1.63
(8-28)	10/10/2001	27.73	15.45	12.28	15.37	0.08
	1/9/2002	27.73	12.61	15.12	-	<0.01
	4/24/2002	27.73	13.35	14.38	-	<0.01
	7/24/2002	27.73	14.19	13.54	-	<0.01
	11/5/2002	27.73	14.85	12.88	-	<0.01
	2/4/2003	27.73	14.91	12.82	-	<0.01
	5/2/2003	27.73	14.43	13.30	-	0.08
	8/4/2003	27.73	15.24	12.49	15.01	0.23
	11/3/2003	27.73	16.94	10.79	15.67	1.27
	2/9/2004	27.73	14.61	13.12	14.43	0.18
	5/10/2004	27.73	Inaccessible	-	-	-
	8/9/2004	27.73	15.24	12.49	15.03	0.21
	11/9/2004	27.73	15.95	11.78	15.71	0.24
	2/3/2005	32.55	13.75	18.80	13.58	0.17
	5/9/2005	32.55	13.93	18.62	13.81	0.12
	8/5/2005	32.55	15.40	17.15	15.39	0.01
	11/9/2005	32.55	15.76	16.79	15.75	0.01
	2/9/2006	32.55	13.52	19.03	13.50	0.02
	5/4/2006	32.55	12.47	20.08	12.46	0.01
	8/4/2006	32.55	15.11	17.44	15.09	0.02
	11/8/2006	32.55	16.03	16.52	16.02	0.01
	2/8/2007	32.55	16.51	16.04	16.48	0.03
	5/29/2007	32.55	15.56	16.99	15.51	0.05
	9/5/2007	**32.55**	**16.33**	**16.22**	**-**	**Sheen**
MW-2	6/29/2001	28.16	16.14	12.02	-	-
(8-28)	10/10/2001	28.16	16.43	11.73	-	-
	1/9/2002	28.16	13.50	14.66	-	-
	4/24/2002	28.16	14.40	13.76	-	-
	7/24/2002	28.16	14.91	13.25	-	-
	11/5/2002	28.16	16.96	11.20	-	-
	2/4/2003	28.16	15.42	12.74	-	-
	5/2/2003	28.16	15.24	12.92	-	-
	8/4/2003	28.16	15.98	12.18	-	-
	11/3/2003	28.16	16.60	11.56	-	Sheen
	2/9/2004	28.16	15.22	12.94	-	Sheen
	5/10/2004	28.16	15.34	12.82	-	Sheen
	8/9/2004	28.16	15.92	12.24	-	Sheen
	11/9/2004	28.16	16.51	11.65	-	Sheen
	2/3/2005	33.24	14.44	18.80	-	Sheen
	5/9/2005	33.24	14.67	18.57	-	Sheen
	8/5/2005	33.24	16.27	16.97	-	Sheen
	11/9/2005	33.24	16.53	16.71	-	Sheen
	2/9/2006	33.24	14.36	18.88	-	Sheen
	5/4/2006	33.24	13.46	19.78	-	Sheen
	8/4/2006	33.24	15.95	17.29	-	Sheen
	11/8/2006	33.24	16.86	16.38	-	Sheen
	2/8/2007	33.24	17.13	16.11	-	Sheen
	5/29/2007	33.24	16.51	16.73	-	Sheen
	9/5/2007	**33.24**	**17.48**	**15.76**	**-**	**-**

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-3	6/29/2001	29.21	16.60	12.61	-	-
(10-25)	10/10/2001	29.21	16.92	12.29	-	-
	1/9/2002	29.21	14.20	15.01	-	-
	4/24/2002	29.21	15.07	14.14	-	-
	7/24/2002	29.21	16.40	12.81	-	-
	11/5/2002	29.21	16.47	12.74	-	-
	2/4/2003	29.21	16.92	12.29	-	-
	5/2/2003	29.21	15.45	13.76	-	-
	8/4/2003	29.21	16.46	12.75	-	-
	11/3/2003	29.21	17.15	12.06	-	-
	2/9/2004	29.21	15.78	13.43	-	-
	5/10/2004	29.21	15.77	13.44	-	-
	8/9/2004	29.21	16.45	12.76	-	-
	11/9/2004	29.21	17.26	11.95	-	-
	2/3/2005	34.25	15.92	18.33	-	-
	5/9/2005	34.25	15.03	19.22	-	-
	8/5/2005	34.25	16.59	17.66	-	-
	11/9/2005	34.25	16.82	17.43	-	-
	2/9/2006	34.25	14.65	19.60	-	-
	5/4/2006	34.25	13.61	20.64	-	-
	8/4/2006	34.25	16.28	17.97	-	-
	11/8/2006	34.25	17.28	16.97	-	-
	2/8/2007	34.25	17.68	16.57	-	-
	5/29/2007	34.25	17.37	16.88	-	-
	9/5/2007	**34.25**	**18.53**	**15.72**	**-**	**-**
MW-4	6/29/2001	29.38	17.71	11.67	-	-
(10-25)	10/10/2001	29.38	18.00	11.38	-	-
	1/9/2002	29.38	15.02	14.36	-	-
	4/24/2002	29.38	15.74	13.64	-	-
	7/24/2002	29.38	16.69	12.69	-	-
	11/5/2002	29.38	17.64	11.74	-	-
	2/4/2003	29.38	16.02	13.36	-	-
	5/2/2003	29.38	16.72	12.66	-	-
	8/4/2003	29.38	17.51	11.87	-	-
	11/3/2003	29.38	18.09	11.29	-	-
	2/9/2004	29.38	16.67	12.71	-	-
	5/10/2004	29.38	16.89	12.49	-	-
	8/9/2004	29.38	17.44	11.94	-	-
	11/9/2004	29.38	17.89	11.49	-	-
	2/3/2005	34.42	14.98	19.44	-	-
	5/9/2005	34.42	16.20	18.22	-	-
	8/5/2005	34.42	17.73	16.69	-	-
	11/9/2005	34.42	17.91	16.51	-	-
	2/9/2006	34.42	15.62	18.80	-	-
	5/4/2006	34.42	15.12	19.30	-	-
	8/4/2006	34.42	17.39	17.03	-	-
	11/8/2006	34.42	18.30	16.12	-	-
	2/8/2007	34.42	18.57	15.85	-	-
	5/29/2007	34.42	18.29	16.13	-	-
	9/5/2007	**34.42**	**19.27**	**15.15**	**-**	**-**

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-5	2/3/2005	33.33	14.23	19.10	-	-
(12-22)	5/9/2005	33.33	14.33	19.00	-	-
	8/5/2005	33.33	15.89	17.44	-	-
	11/9/2005	33.33	16.18	17.15	-	-
	2/9/2006	33.33	14.02	19.31	-	-
	5/4/2006	33.33	12.97	20.36	-	-
	8/4/2006	33.33	15.63	17.70	-	-
	11/8/2006	33.33	16.55	16.78	-	-
	2/8/2007	33.33	16.12	17.21	-	-
	5/29/2007	33.33	15.87	17.46	-	-
	9/5/2007	**33.33**	**16.95**	**16.38**	**-**	**-**
MW-6	2/3/2005	32.82	13.99	18.83	-	Sheen
(12-22)	5/9/2005	32.82	13.61	19.21	-	Sheen
	8/5/2005	32.82	15.50	17.32	15.13	0.37
	11/9/2005	32.82	15.87	16.95	15.50	0.37
	2/9/2006	32.82	13.93	18.89	13.22	0.71
	5/4/2006	32.82	12.88	19.94	12.13	0.75
	8/4/2006	32.82	15.22	17.60	14.81	0.41
	11/8/2006	32.82	16.16	16.66	15.78	0.38
	2/8/2007	32.82	15.48	17.34	15.14	0.34
	5/29/2007	32.82	15.35	17.47	15.04	0.31
	9/5/2007	**32.82**	**15.55**	**17.27**	**-**	**-**
MW-7	2/3/2005	33.07	14.17	18.90	-	Sheen
(12-22)	5/9/2005	33.07	14.47	18.60	14.44	0.03
	8/5/2005	33.07	16.07	17.00	16.02	0.05
	11/9/2005	33.07	16.47	16.60	16.35	0.12
	2/9/2006	33.07	14.18	18.89	14.11	0.07
	5/4/2006	33.07	13.12	19.95	13.11	0.01
	8/4/2006	33.07	15.74	17.33	-	Sheen
	11/8/2006	33.07	16.59	16.48	-	Sheen
	2/8/2007	33.07	16.23	16.84	-	Sheen
	5/29/2007	33.07	16.13	16.94	-	Sheen
	9/5/2007	**33.07**	**16.40**	**16.67**	**-**	**Sheen**
MW-10	2/3/2005	31.17	12.65	18.52	-	-
(12-22)	5/9/2005	31.17	13.09	18.08	-	-
	8/5/2005	31.17	14.68	16.49	-	-
	11/9/2005	31.17	14.94	16.23	-	-
	2/9/2006	31.17	12.82	18.35	-	-
	5/4/2006	31.17	12.11	19.06	-	-
	8/4/2006	31.17	14.38	16.79	-	-
	11/8/2006	31.17	15.32	15.85	-	-
	2/8/2007	31.17	15.59	15.58	-	-
	5/29/2007	31.17	15.27	15.90	-	-
	9/5/2007	**31.17**	**16.25**	**14.92**	**-**	**-**
MW-11	2/3/2005	31.78	13.39	18.39	-	Sheen
(12-22)	5/9/2005	31.78	13.89	17.89	-	Sheen
	8/5/2005	31.78	15.47	16.31	-	Sheen
	11/9/2005	31.78	15.73	16.05	-	Sheen
	2/9/2006	31.78	13.53	18.25	-	Sheen

TABLE 1: GROUNDWATER ELEVATION DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
	5/4/2006	31.78	12.73	19.05	-	Sheen
MW-11	8/4/2006	31.78	15.17	16.61	-	Sheen
Cont.	11/8/2006	31.78	16.15	15.63	-	-
	2/8/2007	31.78	16.36	15.42	-	Sheen
	5/29/2007	31.78	16.06	15.72	-	Sheen
	9/5/2007	**31.78**	**17.03**	**14.75**	**-**	**Sheen**
MW-12	2/3/2005	32.05	13.70	18.35	-	Sheen
(12-22)	5/9/2005	32.05	14.17	17.88	-	Sheen
	8/5/2005	32.05	15.69	16.36	-	Sheen
	11/9/2005	32.05	15.93	16.12	-	Sheen
	2/9/2006	32.05	13.78	18.27	-	Sheen
	5/4/2006	32.05	12.98	19.07	-	Sheen
	8/4/2006	32.05	15.39	16.66	-	Sheen
	11/8/2006	32.05	16.29	15.76	-	-
	2/8/2007	32.05	16.54	15.51	-	-
	5/29/2007	32.05	16.27	15.78	-	-
	9/5/2007	**32.05**	**17.24**	**14.81**	**-**	**-**

NOTES:

1) Monitoring well top of casing (TOC) elevations were resurveyed by Morrow Surveying on January 10, 2006 and February 7, 2006

2) Groudwater elevations for the February 3, 2005 and subsequent monitoring episodes use the new well survey data

3) When LNAPL is present at >0.10 ft, the groundwater elevations are assumed to be affected by the LNAPL

All well elevations are measured from the top of the casing (TOC) - = not applicable

LNAPL = light non-aqueous phase liquid (floating free product) ft amsl = feet above mean sea level

TABLE 2: GROUNDWATER FLOW SUMMARY
Vic's Automotive
245 8th Street, Oakland, California

Episode #	Date	Average Groundwater Elevation[1] (ft amsl)	Change from Previous Episode (ft)	Flow direction (gradient)
1	6/29/2001	12.10	-	SSE (0.0074)
2	10/10/2001	11.80	-0.30	SSE (0.0071)
3	1/9/2002	14.68	2.88	SE (0.0054)
4	4/24/2002	13.85	-0.83	SSW (0.005)
5	7/24/2002	12.92	-0.93	NE (0.021)
6	11/5/2002	11.89	-1.02	SW (0.019)
7	2/4/2003	12.80	0.90	NNW (0.01)
8	5/2/2003	13.11	0.32	SSE (0.01)
9	8/4/2003	12.27	-0.85	SSE(0.007)
10	11/3/2003	11.64	-0.63	SSE (0.006)
11	2/9/2004	13.03	1.39	SSE (0.006)
12	5/10/2004	12.92	-0.11	SSE (0.008)
13	8/9/2004	12.31	-0.60	SSE (0.006)
14	11/9/2004	11.70	-0.62	SSE (0.004)
15	2/3/2005	18.75	-	W (0.007)
16	5/9/2005	18.53	-0.22	S (0.010)
17	8/5/2005	16.94	-1.59	S (0.010)
18	11/9/2005	16.65	-0.28	S (0.010)
19	2/9/2006	18.83	2.17	SSW (0.010)
20	5/4/2006	19.72	0.90	SSW (0.012)
21	8/4/2006	17.24	-2.48	SSW (0.010)
22	11/8/2006	16.32	-0.93	SSW(0.0007)
23	2/8/2007	16.25	-0.07	SSE (0.0009)
24	5/29/2007	16.60	0.35	SSE (0.0009)
25	**9/5/2007**	**15.77**	**-0.84**	**-**

NOTES:

1) MW-2 to MW-4 only used for episodes 1 through 14; all wells used for episodes 15 and later

- = not applicable

ft amsl = feet above mean sea level

Episode 25= Not calculated

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC
			Method SW8015Cm			*Method SW8021B*			*Method 8260*
MW-1	6/29/2001	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	10/10/2001	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	1/9/2002	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	4/24/2002	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	7/24/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/5/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/4/2003	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/2/2003	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2003	0.23	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/3/2003	1.27	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2004	0.18	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/10/2004	Inaccessible	-	-	-	-	-	-	-
	8/9/2004	0.21	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2004	0.24	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/3/2005	0.17	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/5/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2006	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/4/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2006	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/8/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/8/2007	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/29/2007	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	9/5/2007	**Sheen**	**47,000**	**<500**	**4,200**	**11,000**	**1,100**	**6,400**	
MW-2	6/29/2001	0.0	69,000	4100/4400*	7,200	6,100	1,500	7,000	-
	10/10/2001	0.0	87,000	14,000	22,000	12,000	2,700	9,100	-
	1/9/2002	0.0	130,000	11,000	30,000	19,000	3,800	14,000	-
	4/24/2002	Sheen	210,000	32,000	38,000	23,000	4,600	19,000	-
	7/24/2002	Sheen	170,000	36,000	48,000	12,000	3,700	8,600	-
	11/5/2002	Sheen	190,000	36,000	45,000	25,000	4,600	16,000	-
	2/4/2003	Sheen	150,000	27,000	51,000	24,000	4,200	14,000	-
	5/2/2003	Sheen	150,000	35,000	39,000	11,000	3,800	9,900	-
	8/4/2003	Sheen	120,000	29,000	32,000	5,000	3,200	7,200	-
	11/3/2003	Sheen	120,000	24,000	33,000	4,300	3,200	5,400	-
	2/9/2004	Sheen	130,000	19,000	27,000	7,700	3,100	7,600	-
	5/10/2004	Sheen	67,000	13,000	20,000	3,000	2,300	4,100	-
	8/9/2004	Sheen	100,000	22,000	27,000	7,100	2,800	6,600	-
	11/9/2004	Sheen	100,000	23,000	27,000	6,100	3,000	5,600	-
	2/3/2005	Sheen	84,000	11,000	23,000	5,000	3,000	5,500	-
	5/9/2005	Sheen	74,000	14,000	21,000	4,200	2,300	3,300	-
	7/27/2005	Sheen	9,500	910	1,400	1,000	180	960	-
	8/5/2005	Sheen	74,000	4,000	8,800	11,000	1,300	7,600	-
	11/9/2005	Sheen	120,000	16,000	21,000	14,000	2,300	13,000	-
	2/9/2006	Sheen	120,000	10,000	18,000	16,000	2,200	13,000	-
	5/4/2006	Sheen	71,000	8,300	14,000	11,000	1,500	7,600	-
	8/4/2006	Sheen	160,000	14,000	22,000	14,000	2,400	11,000	-
	11/8/2006	Sheen	110,000	6,400	17,000	9,200	1,600	6,800	<MDL
	2/8/2007*	Sheen	68,000	5,400	11,000	7,800	1,500	7,700	-
	5/29/2007	Sheen	49,000	4,800	7,600	4,400	940	4,600	-
	9/5/2007	**Sheen**	**25,000**	**1,000**	**3,300**	**3,400**	**490**	**2,800**	
MW-3	6/29/2001	0.00	550	<5.0	<0.5	3.1	3.2	1.2	-
	10/10/2001	0.00	470	<5.0	0.77	5.3	3.3	5.9	-
	1/9/2002	0.00	1,000	<5.0	0.90	7.6	7.8	25	-

Continued

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC
			Method SW8015Cm			*Method SW8021B*			*Method 8260*
	4/24/2002	0.00	1,500	<5.0	0.64	7.2	12	14	-
	7/24/2002	0.00	1,200	<5.0	10	17.0	11	25	-
	11/5/2002	0.00	1,800	<25	33	43.0	18	31	-
	2/4/2003	0.00	450	<5.0	<0.5	5.0	<0.5	0.77	-
	5/2/2003	0.00	340	<5.0	7.3	10.0	2.5	7.3	-
	8/4/2003	0.00	170	<5.0	5.8	5.9	1.5	4.9	-
	11/3/2003	0.00	54	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/9/2004	0.00	190	<5.0	<0.5	3.6	<0.5	<0.5	-
	5/10/2004	0.00	280	<5.0	<0.5	3.4	<0.5	<0.5	-
	8/9/2004	0.00	290	<5.0	<0.5	3.8	<0.5	<0.5	-
	11/9/2004	0.00	220	<5.0	<0.5	4.0	<0.5	<0.5	-
	2/3/2005	0.00	160	<5.0	13	30	3	21	-
	5/9/2005	0.00	200	<5.0	<0.5	3.9	<0.5	<0.5	-
	8/5/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/9/2005	0.00	130	<5.0	<0.5	2.3	<0.5	<0.5	-
	2/9/2006	0.00	270	<5.0	<0.5	5.6	<0.5	<0.5	-
	5/4/2006	0.00	220	<5.0	<0.5	4.3	<0.5	<0.5	-
	8/4/2006	0.00	93	<5.0	<0.5	1.5	<0.5	<0.5	-
	11/8/2006	0.00	160	<5.0	<0.5	2.9	<0.5	<0.5	<MDL
	2/8/2007*	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/29/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	9/5/2007	**0.00**	**<50**	**<5.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	-
MW-4	6/29/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	10/10/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	1/9/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	4/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	7/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/5/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/4/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/2/2003	0.00	500	10	68	71	18	65	-
	8/4/2003	0.00	270	<5.0	30	29	9.2	32	-
	11/3/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/10/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	8/9/2004	0.00	130	<5.0	14	13	5.3	17	-
	11/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/3/2005	0.00	370	<5.0	<0.5	4.1	<0.5	0.64	-
	5/9/2005	0.00	840	<5.0	50	180	21	110	-
	7/27/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	8/5/2005	0.00	310	<5.0	7.5	57	10	53	-
	11/9/2005	0.00	290	<5.0	12	61	8.8	49	-
	2/9/2006	0.00	250	<5.0	9.9	42	7.5	45	-
	5/4/2006	0.00	300	<5.0	37	76	7.8	42	-
	8/4/2006	0.00	270	<5.0	7.3	33	5.6	32	-
	11/8/2006	0.00	1,300	<5.0	75	230	31	160	<MDL
	2/8/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/29/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	9/5/2007	**0.00**	**<50**	**<5.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	-
MW-5	2/3/2005	0.00	78,000	<1,000	7,600	13,000	2,200	9,600	-
	5/9/2005	0.00	60,000	<900	6,100	9,900	1,600	6,600	-
	7/27/2005	nm	120,000	1,100	10,000	19,000	2,100	13,000	-
	8/5/2005	0.00	59,000	<500	4,100	10,000	1,200	6,600	-
	11/9/2005	0.00	44,000	<500	3,300	7,400	1,100	4,900	-
	2/9/2006	0.00	110,000	<500	10,000	22,000	2,400	13,000	-
	5/4/2006	0.00	110,000	<250	11,000	22,000	2,900	15,000	-
	8/4/2006	0.00	73,000	<500	4,700	8,600	1,700	7,600	-
	11/8/2006	0.00	51,000	<500	3,700	7,200	1,400	6,700	<MDL
	2/8/2007	0.00	67,000	<800	5,100	10,000	1,800	10,000	-
	5/29/2007	0.00	86,000	<1000	6,200	12,000	2,000	11,000	-
	9/5/2007	**0.00**	**36,000**	**<350**	**2,100**	**4,000**	**560**	**4,600**	-

TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC
			Method SW8015Cm			*Method SW8021B*			*Method 8260*
MW-6	2/3/2005	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000	-
	5/9/2005	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000	-
	8/5/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2006	0.71	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/4/2006	0.75	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2006	0.41	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/8/2006	0.38	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/8/2007	0.34	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/29/2007	0.31	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	9/5/2007	**0.00**	**74,000**	**<750**	**870**	**7,000**	**2,400**	**12,000**	-
MW-7	2/3/2005	Sheen	220,000	18,000	45,000	44,000	3,500	18,000	-
	5/9/2005	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/5/2005	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2006	0.07	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/4/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2006	Sheen	230,000	19,000	37,000	37,000	3,100	14,000	-
	11/8/2006	Sheen	240,000	13,000	41,000	39,000	3,000	14,000	<MDL
	2/8/2007	Sheen	230,000	15,000	41,000	37,000	3,700	20,000	-
	5/29/2007	Sheen	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	9/5/2007	**Sheen**	**14,000**	**<450**	**41**	**210**	**99**	**1,600**	-
MW-10	2/3/2005	0.00	36,000	<500	4,700	7,200	660	3,400	-
	5/9/2005	0.00	88,000	<1,500	6,900	20,000	2,300	9,900	-
	8/5/2005	0.00	88,000	<1,100	10,000	21,000	1,900	9,800	-
	11/9/2005	0.00	63,000	<1,100	5,400	13,000	1,900	7,900	-
	2/9/2006	0.00	100,000	<500	6,600	19,000	2,900	13,000	-
	5/4/2006	0.00	100,000	<500	8,500	25,000	3,000	13,000	-
	8/4/2006	0.00	190,000	<2,200	17,000	35,000	2,800	13,000	-
	11/8/2006	0.00	57,000	<500	2,500	7,600	1,600	5,700	<MDL
	2/8/2007	0.00	69,000	<1,000	4,400	14,000	2,200	8,800	-
	5/29/2007	0.00	100,000	<1,000	5,300	19,000	2,600	12,000	-
	9/5/2007	**0.00**	**87,000**	**<1,000**	**6,100**	**20,000**	**2,400**	**12,000**	-
MW-11	2/3/2005	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000	-
	5/9/2005	Sheen	210,000	3,500	29,000	40,000	3,400	16,000	-
	7/27/2005	Sheen	220,000	2,500	26,000	37,000	3,200	18,000	-
	8/5/2005	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000	-
	11/9/2005	Sheen	180,000	9,100	32,000	47,000	3,600	18,000	-
	2/9/2006	Sheen	210,000	10,000	33,000	39,000	3,800	20,000	-
	5/4/2006	Sheen	190,000	12,000	34,000	41,000	3,500	17,000	-
	8/4/2006	Sheen	290,000	11,000	33,000	43,000	3,300	15,000	-
	11/8/2006	0.00	240,000	14,000	34,000	44,000	3,300	16,000	<MDL
	2/8/2007	0.00	230,000	19,000	43,000	44,000	3,900	20,000	-
	5/29/2007	0.00	230,000	19,000	35,000	39,000	3,600	20,000	-
	9/5/2007	**0.00**	**200,000**	**19,000**	**34,000**	**36,000**	**3,700**	**23,000**	-
MW-12	2/3/2005	Sheen	250,000	100,000	52,000	41,000	3,400	15,000	-
	5/9/2005	Sheen	210,000	91,000	44,000	28,000	3,300	13,000	-
	8/5/2005	Sheen	170,000	52,000	38,000	28,000	3,000	12,000	-
	11/9/2005	Sheen	180,000	52,000	39,000	25,000	2,900	12,000	-
	2/9/2006	Sheen	170,000	34,000	40,000	23,000	3,500	15,000	-
	5/4/2006	Sheen	160,000	47,000	33,000	28,000	2,800	10,000	-
	8/4/2006	Sheen	240,000	55,000	40,000	24,000	3,200	12,000	-
	11/8/2006	0.00	190,000	33,000	40,000	23,000	2,700	13,000	<MDL
	2/8/2007	0.00	150,000	34,000	38,000	19,000	3,300	12,000	-
	5/29/2007	0.00	150,000	30,000	30,000	15,000	3,100	13,000	-
	9/5/2007	**0.00**	**160,000**	**38,000**	**33,000**	**21,000**	**3,200**	**14,000**	-

µg/L = micrograms per liter (ppb)
TPH-g = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary-butyl ether
* samples re-analyzed by Method SW8260B (expressed as SW8021B / SW8260B)
MDL= Method Detection Limit
ns/fp = not sampled / free product
HVOC= Halogenated Volatile Organic Compounds
Refer to Appendix B: Lab Analytical Reports w/ Chain of Custody Documentation for detailed analytical reports including dilution factors and reporting limits
* = Analytical results for MW-2 and MW-3 reversed from lab data based on historical concentration trends observed

APPENDIX A

Groundwater Monitoring Well
Field Sampling Forms

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.55		
Depth of Well	28.00		
Depth to Water (from top of casing)	16.33		
Depth to Free Product (from top of casing)	not detected		
Water Elevation (feet above msl)	16.22		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**22.7**		
Actual Volume Purged (gallons)	23.0		
Appearance of Purge Water	Greenish and clears by 2 gals		
Free Product Present?	No	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size: Not sampled due to presence of free product.

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
9:30	1	18.44	6.95	823	1.31	-68.8	Grey
9:32	2	18.48	6.93	813	1.05	-69.2	Light Grey
9:33	3	18.56	6.92	818	0.85	-67.1	Clear
9:37	8	18.84	6.9	860	0.68	-66.6	Clear
9:41	13	18.77	6.95	785	1.07	-73.2	Clear
9:46	18	18.71	7.01	748	1.65	-75	Clear
9:50	23	18.74	7.04	752	1.99	-71.5	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Greenish with strong hydrocarbon odors. Clear by 2 gallons. Sheen present.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.24		
Depth of Well	28.00		
Depth to Water (from top of casing)	17.48		
Water Elevation (feet above msl)	15.76		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**5.0**		
Actual Volume Purged (gallons)	6.0		
Appearance of Purge Water	Light brown then to dark at 1 gal, fast clearing @ 1 gal		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
11:15	1	18.43	6.82	1,270	2.46	-47.8	Light Dark
11:16	2	18.38	6.83	1,191	1.74	-44.1	clear
11:17	3	18.37	6.84	1,115	1.38	-41.3	clear
11:18	4	18.35	6.85	1,891	1.20	-33.6	clear
11:19	5	18.39	6.83	829	1.35	-28.9	clear
	6	18.35	6.83	814	0.84	-21.9	clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Light brown with strong hydrocarbon odors. Turned light to dark at 1 gallon. Fast clearing after 1 gallon

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.25		
Depth of Well	25.00		
Depth to Water (from top of casing)	18.53		
Water Elevation (feet above msl)	15.72		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**12.6**		
Actual Volume Purged (gallons)	13		
Appearance of Purge Water	Brown, clears by 1 gallon		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
8:05	1	19.47	6.51	888	5.04	43.9	Brown
	2	19.47	6.44	808	3.03	74.4	Clear
8:07	3	19.59	6.4	748	2.02	64.9	Clear
8:08	4	19.66	6.35	742	1.70	60.0	Clear
8:09	5	19.70	6.34	770	1.86	33.1	Clear
8:11	8	19.66	6.44	850	1.41	-4.5	Clear
8:13	11	19.63	6.48	877	1.21	-8.4	Clear
8:15	13	19.58	6.47	928	1.27	22.6	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Brown with no hydrocarbon odors. Clears by 1 gallon

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.42		
Depth of Well	25.00		
Depth to Water (from top of casing)	19.27		
Water Elevation (feet above msl)	15.15		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**12.4**		
Actual Volume Purged (gallons)	13.0		
Appearance of Purge Water	Brown and clears fast		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
12:45	1	18.45	6.58	615	5.89	104.3	Clear
	2	18.29	6.51	601	6	111.6	Clear
	3	18.38	6.45	983	6.16	121.6	Clear
	4	18.38	6.42	593	6.04	124.8	Clear
	5	18.31	6.41	617	5.73	127.3	Clear
	7	18.24	6.40	636	5.70	133.3	Clear
	9	18.16	6.40	676	5.53	136.9	Clear
	11	18.17	6.44	693	5.65	132.0	Clear
	13	18.20	6.45	703	5.66	136.8	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Brown with no hydrocarbon odors. Clears fast

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.33		
Depth of Well	22.00		
Depth to Water (from top of casing)	16.95		
Water Elevation (feet above msl)	16.38		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**9.8**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Grey and clears fast		
Free Product Present?	No	Thickness (ft):	-

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
10:05	1	19.53	6.50	886	1.13	-55.9	Clear
10:06	2	19.85	6.76	909	0.79	-46.6	Clear
10:07	3	19.77	6.76	915	0.70	-49.9	Clear
	4	19.63	6.79	821	0.65	-60.6	Clear
	6	19.61	6.91	754	1.11	-69.3	Clear
	8	20.39	6.85	768	1.38	-71.7	Clear
10:17	10	19.87	6.92	793	1.79	-70.1	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Grey with strong hydrocarbon odors. Clears fast.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.82		
Depth of Well	22.00		
Depth to Water (from top of casing)	15.55		
Depth to Free Product (from top of casing)	15.04		
Water Elevation (feet above msl)	17.27		
Well Volumes Purged	N/A		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**12.5**		
Actual Volume Purged (gallons)	13.0		
Appearance of Purge Water	Greenish and clears by 1.5 gallons		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
10:40	1	18.68	6.65	495	1.05	-41	Light Grey
10:41	2	18.82	6.64	500	1.07	-33.2	Light Grey
10:42	3	19.00	6.61	499	1.15	-26.8	Clear
10:44	5	18.92	6.54	498	0.98	-13.5	Clear
10:46	7	18.73	6.57	457	0.39	-24.7	Clear
10:49	9	18.64	6.54	579	0.61	-60.2	Brown
	11	18.69	6.87	473	0.42	-67.4	Grey
	13	18.59	6.83	490	1.22	-36.9	Light Grey

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Greenish with strong hydrocarbon odors. Clears by 1.5 gallons.

Went dry at 9 gals at 10:50 am and recharged at 11:05 am.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	9482	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.07		
Depth of Well	22.00		
Depth to Water (from top of casing)	16.40		
Depth to Free Product (from top of casing)	0.00		
Water Elevation (feet above msl)	16.67		
Well Volumes Purged	0		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**10.9**		
Actual Volume Purged (gallons)	11.0		
Appearance of Purge Water	Brown w/ sheen and clears by 2.5 gals		
Free Product Present?	No	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
11:36	1	19.56	7.62	940	2.01	-163.4	Brown
	2	19.4	7.66	926	1.11	-147.1	Light Brown
11:38	3	19.36	7.69	921	0.68	-131.9	Clear
11:40	5	19.31	7.7	923	0.48	-135	Clear
11:42	7	19.27	7.67	924	0.38	-138.1	Clear
11:44	9	19.24	7.65	920	0.4	-136.3	Clear
11:46	11	19.21	7.65	917	0.49	-133	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Brown with sheen present. Clears by 2.5 gallons

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-10

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.17		
Depth of Well	22.00		
Depth to Water (from top of casing)	16.25		
Water Elevation (feet above msl)	14.92		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**10.6**		
Actual Volume Purged (gallons)	11		
Appearance of Purge Water	Grey and clears fast		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
11:53	1	19.06	6.54	441	2.21	-19.0	Clear
11:54	2	19.11	6.51	934	0.93	-7.7	Clear
11:55	3	19.23	6.51	896	0.82	-6.7	Clear
11:56	4	19.27	6.52	880	0.79	-6.7	Clear
11:57	5	19.28	6.52	882	0.74	-7.9	Clear
11:59	7	19.22	6.54	923	0.68	-15.5	Light Grey
12:00	9	19.16	6.56	937	0.67	-18.5	Light Grey
12:02	11	19.09	6.59	946	0.64	-22.5	Light Grey

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Grey with strong hydrocarbon odors. Clears fast.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-11

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.78		
Depth of Well	22.00		
Depth to Water (from top of casing)	17.03		
Water Elevation (feet above msl)	14.75		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**9.6**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Light dark and clears fast. Sheen present		
Free Product Present?	No	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO(mg/L)	ORP (meV)	Comments
12:09	1	18.64	6.49	716	0.93	-49.2	Clear
12:10	2	18.65	6.46	726	0.85	-46.7	Clear
12:11	3	18.65	6.46	737	0.81	-45.6	Clear
12:12	4	18.64	6.46	747	0.78	-45.9	Clear
12:14	6	18.61	6.46	764	0.73	-46.7	Clear
12:16	8	18.56	6.49	807	0.71	-50.2	Clear
	10	18.50	6.57	851	0.71	-58.5	Dark

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Light dark with strong hydrocarbon odors. Clears fast. Sheen present in water. Free product observed on sample containers.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-12

Project Name:	Vic's Automotive	Date of Sampling:	9/5/2007
Job Number:	111783	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.05		
Depth of Well	22.00		
Depth to Water (from top of casing)	17.24		
Water Elevation (feet above msl)	14.81		
Well Volumes Purged	11		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**9.2**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Clear		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
12:25	1	18.37	6.61	1,051	1.71	-32.5	Clear
12:26	2	18.41	6.63	963	0.91	-33.7	Clear
12:27	3	18.50	6.66	956	0.73	-36.8	Clear
12:28	4	18.53	6.67	987	0.70	-37	Clear
12:30	6	18.52	6.64	1,048	0.68	-38.0	Clear
12:32	8	18.47	6.71	1,143	0.64	-38.1	Clear
12:33	10	18.43	6.72	1,224	0.61	-37.8	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear with strong hydrocarbon odors

APPENDIX B

Laboratory Analytical Reports
With
Chain of Custody Documentation

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #111783; Vic's Automotive	Date Sampled: 09/05/07
		Date Received: 09/05/07
	Client Contact: Ricky Bradford	Date Reported: 09/12/07
	Client P.O.:	Date Completed: 09/12/07

WorkOrder: 0709050

September 12, 2007

Dear Ricky:

Enclosed are:

1). the results of **10** analyzed samples from your **#111783; Vic's Automotive project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

0709050

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? YES PDF Required? YES

Report To: Ricky Bradford	Bill To:
Company: AEI Consultants	
2500 Camino Diablo, Suite 200	
Walnut Creek, CA 94597	E-Mail: rbradford@aeiconsultants.com
Tele: (925) 283-6000 ext. 148	Fax: (925) 944-2895
Project #: 111783	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	Analysis Request: MBTEX & TPH as Gas by EPA 602/8020 + 8015	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	HVOCs by EPA 8260 (8010 Target List)	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
(+) MW-1		9/5/07	1:45P			X					X	X			X																
+ MW-2			1:15P			X					X	X			X																
+ MW-3			1:25P			X					X	X			X																
+ MW-4			1:30P			X					X	X			X																
+ MW-5			10:50A			X					X	X			X																
+ MW-6			1:05P			X					X	X			X																
+ MW-7			1:21P			X					X	X			X																
+ MW-10			2:10P			X					X	X			X																
+ MW-11			2:18P			X					X	X			X																
+ MW-12			2:29P			X					X	X			X																

Relinquished By:	Date:	Time:	Received By:
	9/5/07	4:45	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 10.7
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB _____ PERSERVED IN LAB _____

PRESERVATION APPROPRIATE	VOAS	O&G	METALS	OTHER
CONTAINERS ✓				

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0709050 **ClientID: AEL**

☑ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty

Report to:
Ricky Bradford
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597

Email: rbradford@aeiconsultants.com
TEL: (925) 283-600 FAX: (925) 944-289
ProjectNo: #111783; Vic's Automotive
PO:

Bill t
,
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **09/05/2007**
Date Printed: **09/05/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0709050-001	MW-1	Water	9/5/2007 1:45:00	☐	A	A										
0709050-002	MW-2	Water	9/5/2007 1:15:00	☐	A											
0709050-003	MW-3	Water	9/5/2007 10:25:00	☐	A											
0709050-004	MW-4	Water	9/5/2007 1:30:00	☐	A											
0709050-005	MW-5	Water	9/5/2007 10:50:00	☐	A											
0709050-006	MW-6	Water	9/5/2007 1:08:00	☐	A											
0709050-007	MW-7	Water	9/5/2007 1:21:00	☐	A											
0709050-008	MW-10	Water	9/5/2007 2:10:00	☐	A											
0709050-009	MW-11	Water	9/5/2007 2:18:00	☐	A											
0709050-010	MW-12	Water	9/5/2007 2:24:00	☐	A											

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **AEI Consultants**
Date and Time Received: **9/5/2007 5:00:14 PM**
Project Name: **#111783; Vic's Automotive**
Checklist completed and reviewed by: Ana Venegas
WorkOrder N°: **0709050** Matrix Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 10.7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #111783; Vic's Automotive	Date Sampled: 09/05/07
2500 Camino Diablo, Ste. #200		Date Received: 09/05/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 09/06/07-09/10/07
	Client P.O.:	Date Analyzed 09/06/07-09/10/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0709050

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	47,000,a	ND<500	4200	11,000	1100	6400	100	102
002A	MW-2	W	25,000,a,h	1000	3300	3400	490	2800	100	100
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	107
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	101
005A	MW-5	W	36,000,a	ND<350	2100	4000	560	4600	10	96
006A	MW-6	W	74,000,a,h	ND<750	870	7000	2400	12,000	20	118
007A	MW-7	W	14,000,a	ND<450	41	210	99	1600	20	111
008A	MW-10	W	87,000,a	ND<1000	6100	20,000	2400	12,000	200	99
009A	MW-11	W	200,000,a,h	19,000	34,000	36,000	3700	23,000	200	92
010A	MW-12	W	160,000,a	38,000	33,000	21,000	3200	14,000	200	94

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0709050

EPA Method SW8021B/8015Cm **Extraction SW5030B** **BatchID: 30413** **Spiked Sample ID: 0709048-002B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	93.6	105	11.9	96.7	123	24.1	70 - 130	30	70 - 130	30
MTBE	ND	10	108	115	6.04	117	112	4.46	70 - 130	30	70 - 130	30
Benzene	ND	10	97	101	4.07	113	108	4.38	70 - 130	30	70 - 130	30
Toluene	ND	10	88.5	91.8	3.68	103	102	0.688	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	95.8	99.7	4.09	111	108	2.86	70 - 130	30	70 - 130	30
Xylenes	ND	30	92.3	95.3	3.20	107	100	6.45	70 - 130	30	70 - 130	30
%SS:	90	10	100	106	5.95	106	104	1.89	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 30413 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0709050-001A	09/05/07 1:45 PM	09/08/07	09/08/07 6:31 AM	0709050-002A	09/05/07 1:15 PM	09/08/07	09/08/07 7:01 AM
0709050-003A	09/05/07 10:25 AM	09/10/07	09/10/07 6:48 PM	0709050-004A	09/05/07 1:30 PM	09/07/07	09/07/07 7:19 AM
0709050-005A	09/05/07 10:50 AM	09/06/07	09/06/07 8:00 PM	0709050-006A	09/05/07 1:08 PM	09/06/07	09/06/07 8:31 PM
0709050-007A	09/05/07 1:21 PM	09/06/07	09/06/07 9:02 PM	0709050-008A	09/05/07 2:10 PM	09/08/07	09/08/07 7:31 AM
0709050-009A	09/05/07 2:18 PM	09/08/07	09/08/07 8:01 AM	0709050-010A	09/05/07 2:24 PM	09/08/07	09/08/07 8:31 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

DHS ELAP Certification N° 1644

QA/QC Officer