July 31, 2007

QUARTERLY MONITORING REPORT
2nd 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

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July 31, 2007

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

Subject: **Quarterly Monitoring Report**
2nd 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 which documents the ongoing groundwater and soil gas investigation at the above-referenced property (Figure 1). This investigation is being performed 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 2nd 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.

Three soil borings (SB-1 through SB-3) were advanced in August 1996. Groundwater samples collected from each of the borings contained TPH-g and Benzene ranging from 120,000 to 140,000 µg/L, and from 12,000 to 19,000 µg/L, respectively. Methyl tertiary-butyl ether (MTBE) was also present in all three samples, up to 27,000 µg/L. Although free phase product was not observed in the field, qualitative laboratory observations indicated immiscible sheen. Manual bailing and pumping of NAPL from MW-1, and monitoring of MW-2 occurred intermittently through 1997.

Two additional groundwater monitoring wells (MW-3 and MW-4) were installed in May 2001. Refer to Tables 1 and 2 for data collected from these wells. A free product recovery pump was installed in MW-1 in June 2001.

Fourteen (14) additional soil borings were performed on and offsite in 2003, from which soil, groundwater, and soil vapor samples were collected to further characterize the extent of the release.

On January 11, 19, and 20, 2005, AEI installed a total of six (6) additional wells, three (3) extraction/monitoring wells on the subject site and three (3) extraction/monitoring wells at 708 Alice Street. The locations of the six (6) additional wells (labeled MW-5 through MW-7 and MW-10 through MW-12) are shown on Figure 2. Note that wells MW-8 and MW-9 were proposed for installation in the public right of way, north of and west of the site. However, due to insurance and permitting limitations imposed by the City of Oakland, these wells were not been installed, and likely cannot be installed in City of Oakland right-of-way.

A high vacuum dual phase extraction (HVDPE) pilot test was performed at the site from July 11 to July 27, 2005, using wells MW-1 through MW-3 and MW-10 through MW-12. Vapor flow rates ranged from approximately 170 to 190 standard cubic feet per minute (scfm) under a sustained vacuum of 16 to 17 inches of mercury. Significant drawdown and vacuum response was observed in many of the monitoring points. A total of 80,740 gallons of water was recovered and treated for an average flow rate of about 4.1 gallons per minute over the 15-day pilot test. Approximately 5 pounds per day of dissolved phase and 697 lbs/day of vapor phase hydrocarbons were recovered. Based on the favorable results, and following review and approval by ACEH, operation of a fixed base HVDPE system is currently underway.

On July 13, 2006, four (4) permanent soil gas probes (GP-1 through GP-4) were installed to evaluate the potential risk for vapor intrusion into indoor air. Two soil gas probes were installed on the western side of the subject property near 718 Alice Street and the remaining two on an

empty lot at 708 Alice Street near 712 Alice Street. The locations of the four permanent soil gas probes are shown on Figure 2.

Soil gas sampling was conducted in conjunction with the quarterly groundwater monitoring episode.

II. Summary of Groundwater Monitoring Activities

AEI measured depth to groundwater in wells MW-1 through MW-7 and MW-10 through MW-12 on May 29, 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 observed in MW-1 and MW-6. The eight (8) wells with no measurable free product (MW-2 through MW-5, MW-7 and MW-10 through 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 seven (7) 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

LNAPL was present in wells MW-1 and MW-6 at thicknesses of 0.05 feet and 0.31 feet, respectively. No measurable thickness of free product was encountered in the remaining wells. However, sheen of LNAPL was noted in well MW-2, MW-7, and MW-11.

Groundwater elevations for this monitoring event ranged from 15.72 (MW-11) to 17.47 (MW-6) feet above mean sea level (amsl). The current groundwater elevations were an average of 0.25 feet lower than the previous monitoring event (February 8, 2007). The groundwater flow direction at the time of measurement is to the south-southeast with a calculated hydraulic gradient of approximately 0.0009 ft/ft, although apparently anomalously high water table elevations were measured in wells MW-5 and MW-6.

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

On May 17, 2007, soil gas samples from gas probes GP-1 through GP-4 which were screened at two depths, 5 feet bgs and 10 feet bgs.

Prior to sample collection, the soil gas probes were purged of three (3) volumes of dead air using a dedicated 6-L Summa™ purge canister. This helped to ensure that a sufficient volume of ambient air was removed from the sampling point and that samples collected were representative of subsurface conditions. The purged volume was calculated by summing the volume of the sample tubing and annular space around the probe tip. One purge volume for the 5 and 10-foot probes are 16.1 and 27.6 mL, respectively. Three default purge volumes for the 5 and 10-foot probes are 48.3 and 82.8 mL, respectively. Therefore, to adequately purge the 5 and 10 foot probes (at 167 mL/min) it took approximately 18 and 30 seconds, respectively.

After the probes were adequately purged of three well volumes, soil gas samples were collected into laboratory–evacuated 1-L Summa™ canisters pending transportation to the laboratory. Critical orifice flow control regulators designed and provided by Air Toxics affixed with a vacuum gauge was placed inline between the soil gas probe and Summa™ canister to ensure that it was filled at a constant rate of 100 to 200 milliliters per minute (mL/min) as recommended by the ASGI. The evacuated Summa™ canisters were filled at a constant rate of 167 milliliters per minute (mL/min). A new laboratory-certified clean flow controller was used at each sampling point. Low or no flow conditions and presence of moisture were encountered in GP-1-10 and GP-4-10.

A rag moistened with the leak check compound (isopropyl alcohol), was placed inside the well box where the soil gas tubing and the grout seal met. A leak test dome made of a 12-inch round plastic bowl was then placed upside-down over the top of the well box and secured using the well box lid. Cotton strips moistened with isopropyl alcohol were placed around the Swagelok® valves, fittings, connections, and other potential leak points. To avoid possible cross contamination, the isopropyl alcohol leak check compound was stored separately from other sampling tools in a zipper locking bag.

A total of seven (7) soil gas samples, which included on field duplicate (GP-3-5D) were shipped via UPS ground under proper chain of custody protocol to Air Toxics, Ltd. of Folsom, California (Department of Health Services Certification #0211CA). Samples were analyzed for TPH-g by EPA Method Modified TO-3 and for select volatile organic compounds (VOCs) including BTEX, MTBE, Tetrachloroethene (PCE), Trichloroethene (TCE), 1,1-DCE, cis and trans 1,2-DCE and ethanol by EPA Method Modified TO-15 along with the 2-Propanol leak check compound. Laboratory procedures included appropriate quality assurance and quality control analyses, including method blanks and use of surrogates during sample analyses. According to

Air Toxics, the analytical equipment was calibrated in conformance with the most current ASGI and the Analytical Methods.

V. Soil Gas Sampling Results

Concentrations of TPH-g were detected in the five foot deep probes ranging from 457 micrograms per meter^3 (μg/m^3) in GP-1-5' to 873 μg/m^3 in GP-4-5'. Ethanol was detected in GP-3-5' and GP-4-5' at concentrations of 17 μg/m^3 and 15 μg/m^3, respectively. Tetrachloroethene (PCE) was detected in GP-1-5' and GP-2-5' at concentrations of 14 μg/m^3 and 420 μg/m^3, respectively. PCE was also detected in the field sample GP-3-5D at a concentration of 16 μg/m^3. The remaining analytes were not detected at or above laboratory reporting limits.

In the 10 foot deep probes, concentrations of TPH-g were detected at 748 μg/m^3, and 1,538 μg/m^3 in GP-2-10' and GP-3-10'. PCE was detected in GP-2-10' at a concentration of 440 μg/m^3. Ethanol was detected in GP-3-10' at 18 μg/m^3. The remaining analytes were not detected at or above laboratory reporting limits in GP-2-10' and GP-4-10'. Sampling of GP-1-10'and GP-4-10' was not possible due to the presence of moisture in the wells.

VI. Groundwater Monitoring Results

LNAPL was present in MW-1 and MW-6 at apparent thicknesses of 0.05 and 0.31 feet thick, respectively. 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 230,000 μg/L, 35,000 μg/L, 39,000 μg/L, 3,600 μg/L, 20,000 μg/L, and 30,000 μg/L, respectively. Lower but elevated concentrations of TPH-g were detected in MW-2 (49,000 μg/L) and MW-5 (86,000 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.

VII. Summary and Upcoming Activities

This report presents the findings of the 2nd Quarter, 2007 groundwater monitoring and soil gas event. The results of this groundwater monitoring episode are generally consistent with previous episodes and indicates that a significant mass of free product and dissolved phase hydrocarbons exist on and offsite. LNAPL remains in wells MW-1 and MW-6 with significant dissolved phase contaminants present in many of the other wells. During the third quarter 2007, the following activities are planned:

- The next quarterly soil gas sampling and groundwater monitoring event (3rd Quarter, 2007) are scheduled for early August 2007. Groundwater samples will be analyzed for TPH-g, BTEX and MTBE.
- Mobilization and startup of the HVDPE system was recently initiated in June 2007. A system installation and startup report is currently being prepared for submittal to the ACEH, as required.
- Arrange access for the installation of a down-gradient groundwater monitoring well on private property along the eastern side of 7th Street. Informal access agreements have begun. ACHCSA will be notified once access is formalized.
- It is AEI's recommendation that soil gas sampling at the site be reduced to semi-annual to be conducted during the 2nd and 4th quarters, based on the relative consistence between events

VIII. 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

Calvin Hee
Staff Engineer

Ricky Bradford
Senior Staff Engineer

Peter J. McIntyre, PG, REA
Senior Project Manager

Figures
Figure 1 Site Location Map

- The next quarterly soil gas sampling and groundwater monitoring event (3rd Quarter, 2007) are scheduled for early August 2007. Groundwater samples will be analyzed for TPH-g, BTEX and MTBE.
- Mobilization and startup of the HVDPE system was recently initiated in June 2007. A system installation and startup report is currently being prepared for submittal to the ACEH, as required.
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Sincerely,
AEI Consultants

Calvin Hee
Staff Engineer

Ricky Bradford
Senior Staff Engineer

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Senior Project Manager

REGISTERED GEOLOGIST
PETER J. MCINTYRE
5/31/08
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STATE OF CALIFORNIA

Tables

Report Distribution

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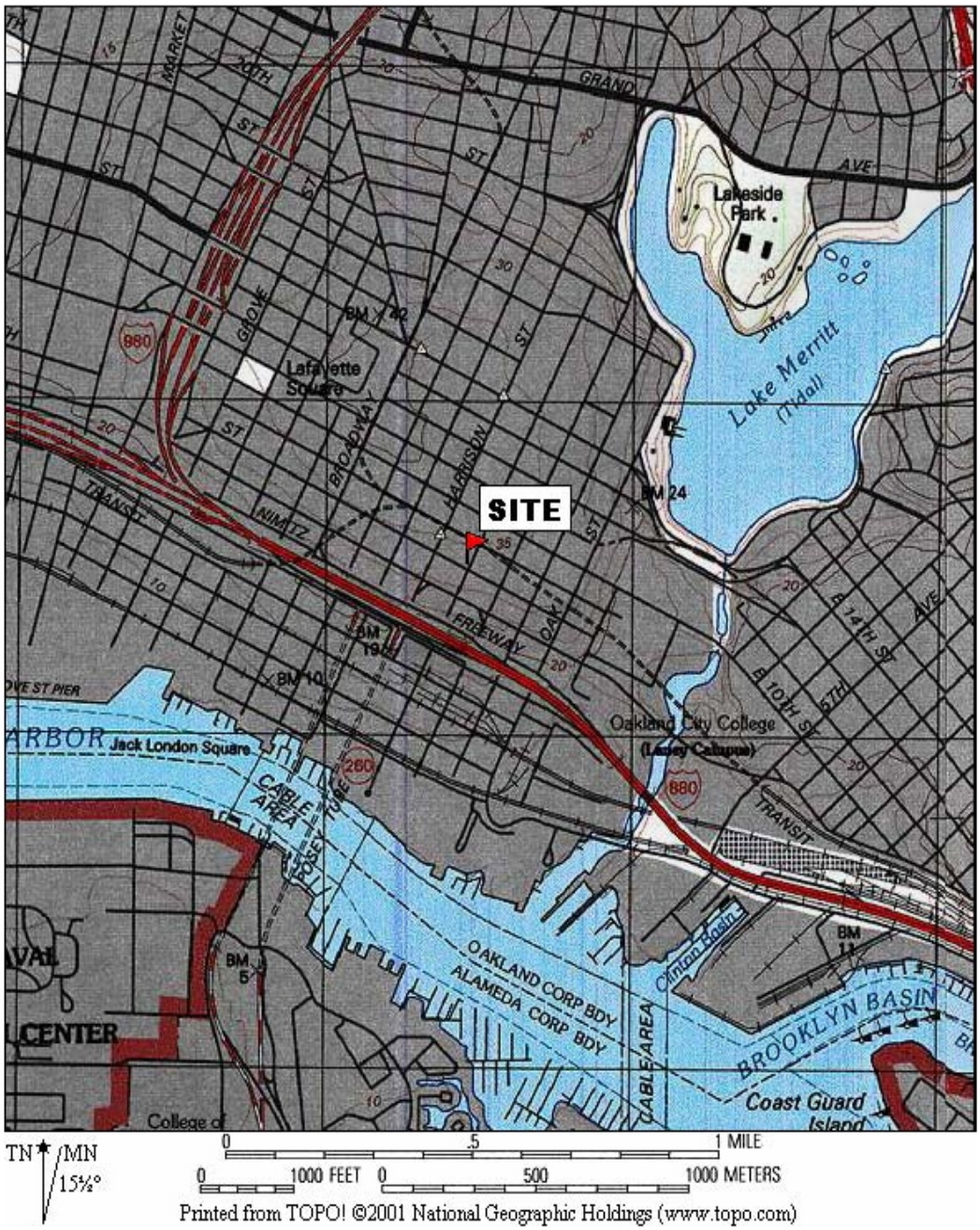
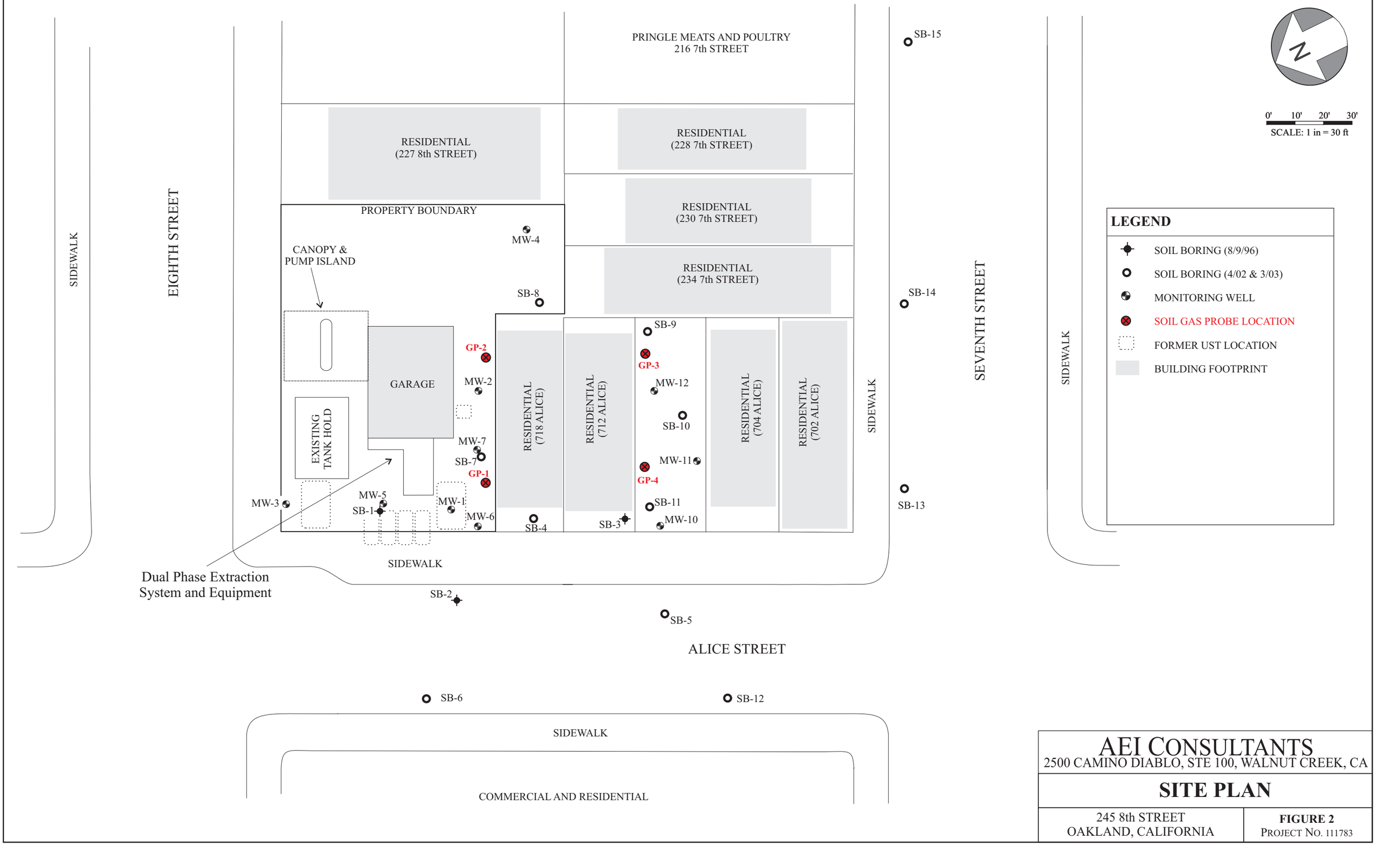
Alameda, CA 94502

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



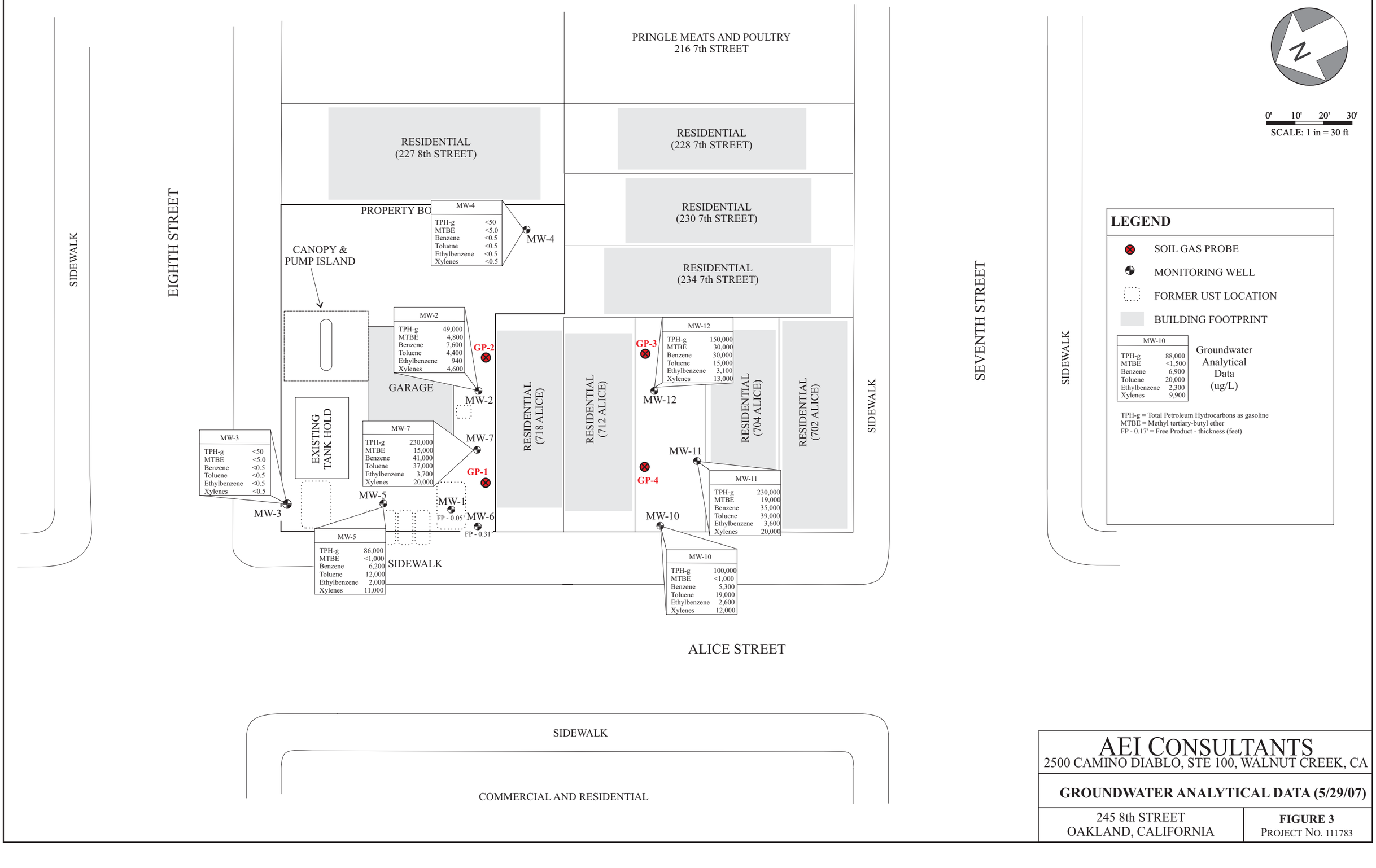
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SITE PLAN

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 111783



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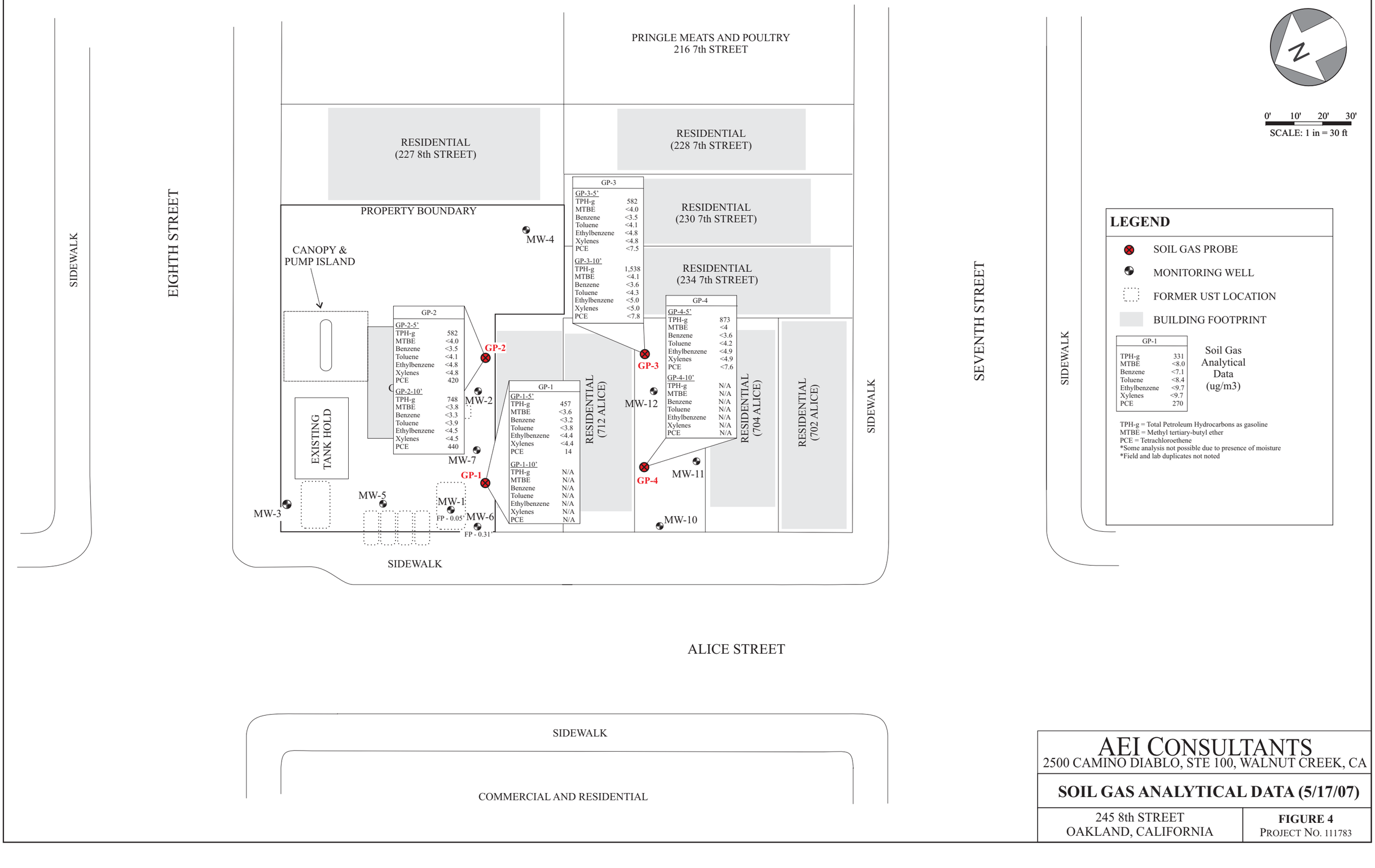
2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ANALYTICAL DATA (5/29/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 111783



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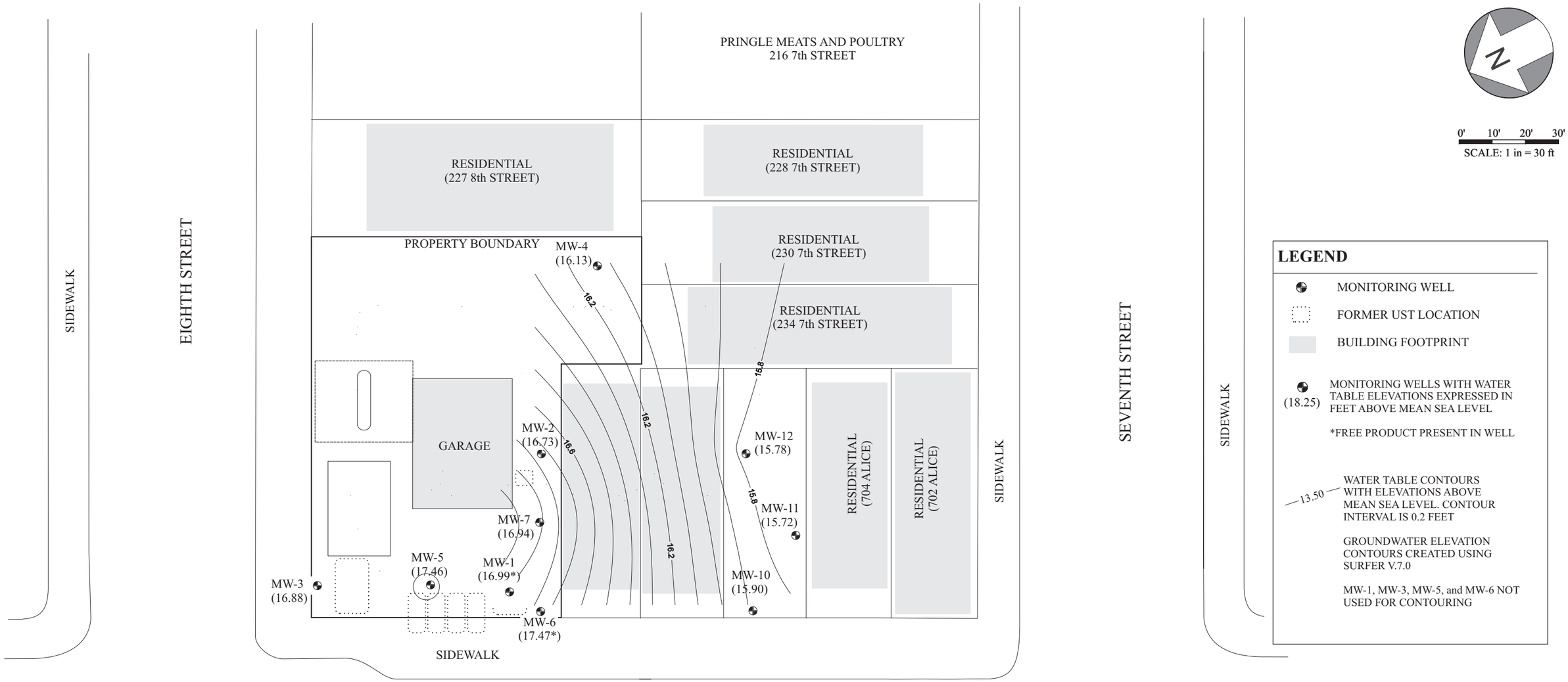
2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SOIL GAS ANALYTICAL DATA (5/17/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 111783



LEGEND

- MONITORING WELL
- FORMER UST LOCATION
- BUILDING FOOTPRINT

(18.25) MONITORING WELLS WITH WATER TABLE ELEVATIONS EXPRESSED IN FEET ABOVE MEAN SEA LEVEL

*FREE PRODUCT PRESENT IN WELL

13.50 WATER TABLE CONTOURS WITH ELEVATIONS ABOVE MEAN SEA LEVEL. CONTOUR INTERVAL IS 0.2 FEET

GROUNDWATER ELEVATION CONTOURS CREATED USING SURFER V.7.0

MW-1, MW-3, MW-5, and MW-6 NOT USED FOR CONTOURING

AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ELEVATION CONTOURS (5/29/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 5
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**
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**

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**	**-**	**-**
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**	**-**	**-**

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**	-	-
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**
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**
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**	-	-
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**
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**	**-**	**-**

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)**

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

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 *Method SW8015Cm*	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC *Method 8260*
						Method SW8021B			
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**	-
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**	-
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 *Method SW8015Cm*	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC *Method 8260*
						Method SW8021B			
	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**	-
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**	-
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**	-

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*
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	-
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**	-
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**	**<1000**	**5,300**	**19,000**	**2,600**	**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**	-
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**	-

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

TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Probe/Sample ID	Date Collected	Sample Depth (ft bgs)	TPH-g µg/m3	MTBE µg/m3	Benzene µg/m3	Toluene µg/m3	Ethylbenzene µg/m3	Xylenes µg/m3	Ethanol µg/m3	PCE µg/m3	CD µg/m3	MEK µg/m3	Acetone µg/m3	2-Propanol[1] µg/m3
			EPA Method Modified TO-3	*EPA Method Modified TO-15*										
GP-1-5	8/4/2006	5	331	<8.0	<7.1	<8.4	<9.7	<9.7	<17	17	72	<6.6	82	23
GP-1-5D$_l$	8/4/2006	5	-	<8.0	<7.1	<8.4	<9.7	<9.7	<17	18	71	<6.6	78	23
GP-1-5	11/8/2006	5	1,100	<4.6	<4.0	<4.8	<5.5	<5.5	<9.5	12	-	-	-	<12
GP-1-5	3/6//2007*	5	-	-	-	-	-	-	-	-	-	-	-	-
GP-1-5	**5/17/2007**	**5**	**457**	**<3.6**	**<3.2**	**<3.8**	**<4.4**	**<4.4**	**<7.6**	**14**	**-**	**-**	**-**	**<9.9**
GP-1-5$_l$	**5/17/2007**	**5**	**-**	**<3.6**	**<3.2**	**<3.8**	**<4.4**	**<4.4**	**<7.6**	**14**	**-**	**-**	**-**	**<9.9**
GP-1-10	8/4/2006	10	493	<4.1	<3.6	<4.3	<5.0	<5.0	<8.6	20	71	11	120	<11
GP-1-10	11/8/2006	10	950	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	-	-	-	<11
GP-1-10	3/6//2007*	10	-	-	-	-	-	-	-	-	-	-	-	-
GP-1-10	**5/17/2007^**	**10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
GP-2-5	8/4/2006	5	493	<4.4	<3.9	6.9	<5.4	10	<9.3	600	120	4.1	110	<12
GP-2-5	11/8/2006	5	1,100	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	240	-	-	-	<11
GP-2-5	3/6/2007*	5	-	-	-	-	-	-	-	-	-	-	-	-
GP-2-5	**5/17/2007**	**5**	**582**	**<4.0**	**<3.5**	**<4.1**	**<4.8**	**<4.8**	**<8.3**	**420**	**-**	**-**	**-**	**<11**
GP-2-10	8/4/2006	10	352	<10	<9.0	18	<12	<12	<21	270	18	<8.4	62	<28
GP-2-10	11/8/2006	10	910	<3.9	<3.4	<4.1	<4.7	<4.7	<8.1	450	-	-	-	<11
GP-2-10	3/6/2007*	10	-	-	-	-	-	-	-	-	-	-	-	-
GP-2-10	**5/17/2007**	**10**	**748**	**<3.8**	**<3.3**	**<3.9**	**<4.5**	**<4.5**	**<7.9**	**440**	**-**	**-**	**-**	**<10**
GP-3-5	8/4/2006	5	<240	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<3.6	4.8	110	<11
GP-3-5	11/8/2006	5	930	<4.4	<3.9	<4.6	<5.2	<5.2	<9.1	<8.2	-	-	-	<12
GP-3-5	3/6/2007*	5	-	-	-	-	-	-	-	-	-	-	-	-
GP-3-5	**5/17/2007**	**5**	**582**	**<4.0**	**<3.5**	**<4.1**	**<4.8**	**<4.8**	**17**	**<7.5**	**-**	**-**	**-**	**<11**
GP-3-5D$_f$	**5/17/2007**	**5**	**582**	**<4.0**	**<3.5**	**<4.1**	**<4.8**	**<4.8**	**<8.3**	**16**	**-**	**-**	**-**	**<11**
GP-3-10	8/4/2006	10	564	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	9.0	5.6	240	<11
GP-3-10	11/8/2006	10	1,800	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	<7.6	-	-	-	<11
GP-3-10	3/6/2007*	10	-	-	-	-	-	-	-	-	-	-	-	-
GP-3-10	**5/17/2007**	**10**	**1,538**	**<4.1**	**<3.6**	**<4.3**	**<5.0**	**<5.0**	**18**	**<7.8**	**-**	**-**	**-**	**12**
GP-4-5	8/4/2006	5	705	<4.4	5.4	<4.6	<5.4	<5.4	<9.3	<8.4	270	4.3	100	<12
GP-4-5$_l$	8/4/2006	5	599	-	-	-	-	-	-	-	-	-	-	-
GP-4-5	11/8/2006	5	540	<4	<3.5	<4.1	<4.8	<4.8	<8.3	<7.5	-	-	-	<11
GP-4-5$_f$	11/8/2006	5	610	<7.7	<6.8	<8.0	<9.2	<9.2	<16	<14	-	-	-	<21
GP-4-5	3/6/2007*	5	-	-	-	-	-	-	-	-	-	-	-	-
GP-4-5	**5/17/2007**	**5**	**873**	**<4**	**<3.6**	**<4.2**	**<4.9**	**<4.9**	**15**	**<7.6**	**-**	**-**	**-**	**<11**

Continued

TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA
Vic's Automotive
245 8th Street, Oakland, California

Probe/Sample ID	Date Collected	Sample Depth (ft bgs)	TPH-g µg/m3	MTBE µg/m3	Benzene µg/m3	Toluene µg/m3	Ethylbenzene µg/m3	Xylenes µg/m3	Ethanol µg/m3	PCE µg/m3	CD µg/m3	MEK µg/m3	Acetone µg/m3	2-Propanol[1] µg/m3
			EPA Method Modified TO-3	*EPA Method Modified TO-15*										
GP-4-10	8/4/2006	10	564	<4.1	6.1	17	5.7	16	12	<7.8	250	9.4	130	<11
GP-4-10D_f	8/5/2006	10	529	<3.8	4.2	18	<4.6	17	18	<7.2	130	9.4	130	<10
GP-4-10	11/8/2006	10	900	<4.0	<3.5	4.1	<4.8	5.2	<8.3	<7.5	-	-	-	<11
GP-4-10$_l$	11/8/2006	10	880	<1.8	<1.6	<1.9	<2.2	<2.2	<3.8	<3.4	-	-	-	<4.9
GP-4-10	3/6/2007*	10	-	-	-	-	-	-	-	-	-	-	-	-
GP-4-10	**5/17/2007^**	**10**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
ESLs			**26,000**	**9,400**	**85**	**63,000**	**420,000**	**150,000**	**19,000,000**	**410**	**-**	**210,000**	**660,000**	**-**
CHHSLs			**-**	**4,000**	**36.2**	**135,000**	**postponed**	**315,000**	**-**	**180**	**-**	**-**	**-**	**-**

1) 2-Propanol (i.e., isopropyl alcohol) is the tracer/leak check compound
ft bgs = feet below ground surface
µg/m3 = micrograms per cubic meter
TPH-g = total petroleum hydrocarbons as gasoline
MTBE = methyl tertiary-butyl ether
PCE = tetrachloroethene
CD = carbon disulfide
MEK = methyl ethyl ketone (i.e., 2-Butanone)
ESLs = Environmental Screening Levels - for residential land use
CHHSLs = California Human Health Screening Levels
*Sampling not possible due to seasonal wet climate conditions
^ = No sample analysis due to presence of moisture
D_f = after the probe/sample ID indicates a duplicate sample collected in the field
D_l = after the probe/sample ID indicates a duplicate sample prepared and analyzed by the lab
Please refer to Appendix B: Lab Analytical Reports w/ Chain of Custody Documentation for detailed analytical data, including dilution factors and reporting limits

APPENDICIES

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	15.56		
Depth to Free Product (from top of casing)	15.61		
Water Elevation (feet above msl)	16.99		
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)	N/A		
Actual Volume Purged (gallons)	N/A		
Appearance of Purge Water	N/A		
Free Product Present?	Yes	Thickness (ft):	0.01

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

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

Well was neither purged nor sampled due to the presence of free product

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	16.51		
Water Elevation (feet above msl)	16.73		
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)	**5.5**		
Actual Volume Purged (gallons)	5.5		
Appearance of Purge Water	Clear		
Free Product Present?	Yes	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
12:54	1	18.04	6.62	1386	12.39	-76.5	
	2	17.91	6.65	1223	10.97	-84.9	
	3	17.90	6.66	1105	9.17	-89.2	
	4	17.91	6.66	1011	8.10	-90.3	
12:57	5.5	17.94	6.66	910	7.10	-91.0	

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

Strong petroleum hydrocarbon odors with sheen in purge water

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	17.37		
Water Elevation (feet above msl)	16.88		
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)	**14.9**		
Actual Volume Purged (gallons)	15		
Appearance of Purge Water	Brown, clears by 0.5 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
12:08	1	19.11	6.75	318	8.94	91.1	
	2	18.87	6.61	318	8.46	92.6	
	3	18.83	6.48	318	8.22	94.2	
	5	18.83	6.43	322	8.10	91.5	
	7	18.84	6.39	332	7.80	68.0	
	10	18.84	6.38	347	6.88	-6.3	
	13	18.86	6.40	355	6.08	-26.6	
12:23	15	18.86	6.39	359	6.59	-30.0	

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

No petroleum odors noted

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	18.29		
Water Elevation (feet above msl)	16.13		
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)	**13.1**		
Actual Volume Purged (gallons)	13.0		
Appearance of Purge Water	Clear, becomes light brown at 6.5 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
	1	18.31	7.52	285	11.65	130.5	
	2	17.81	7.03	284	11.04	132.9	
	3	17.77	6.80	296	10.78	134.3	
	5	17.76	6.54	280	10.38	134.0	
	7	18.15	6.38	289	10.35	120.1	
	9	17.82	6.36	288	9.83	99.1	
	11	17.84	6.34	294	9.63	95.4	
	13	17.89	6.33	299	9.57	94.0	

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

No petroleum odors noted

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	15.87		
Water Elevation (feet above msl)	17.46		
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)	**12.0**		
Actual Volume Purged (gallons)	12.0		
Appearance of Purge Water	Clear, becomes light grey at 11 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
12:36	1	18.22	6.46	726	12.57	-78.2	
	2	18.03	6.41	727	12.2	-84.0	
	3	18.02	6.40	727	11.68	-88.2	
	5	17.99	6.39	741	10.31	-95.5	
	7	18.00	6.38	744	8.92	-100.6	
	10	18.10	6.44	647	6.76	-104.4	
12:45	12	18.29	6.43	580	5.71	-95.6	

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

Strong petroleum odors noted, no sheen in purge water

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	15.35		
Depth to Free Product (from top of casing)	15.04		
Water Elevation (feet above msl)	17.47		
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)	N/A		
Actual Volume Purged (gallons)	N/A		
Appearance of Purge Water	N/A		
Free Product Present?	Yes	Thickness (ft):	0.31

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

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

Well was neither purged nor sampled due to the presence of free product

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	9482	Name of Sampler:	R bartlett
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)	16.13		
Depth to Free Product (from top of casing)	0.00		
Water Elevation (feet above msl)	16.94		
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)	**11.3**		
Actual Volume Purged (gallons)	12.0		
Appearance of Purge Water			
Free Product Present?	Yes	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

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

Well not sampled, free product present, un-measurable thickness

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-10

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	15.27		
Water Elevation (feet above msl)	15.90		
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)	**13**		
Actual Volume Purged (gallons)	13		
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
13:11	1	18.25	6.82	382	8.73	-66.1	
	2	17.98	6.62	380	7.73	-54.9	
	3	17.89	6.46	355	6.28	-38.4	
	4	17.87	6.41	353	5.48	-32.3	
	5	17.87	6.39	357	5.22	-31.9	
	7	17.86	6.37	367	4.55	-29.4	
	10	17.89	6.35	383	4.09	-30.0	
13:19	13	17.93	6.36	386	3.72	-32.8	

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

Strong petroleum odors noted

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-11

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	16.06		
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)	**11.6**		
Actual Volume Purged (gallons)	11.5		
Appearance of Purge Water	Clear, turns dark grey at 10.0 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
13:41	1	17.75	6.50	319	5.41	-85.8	
	2	17.44	6.40	317	4.13	-88.4	
	3	17.39	6.35	312	3.32	-90.1	
	4	17.37	6.31	309	3.01	-85.9	
	5	17.37	6.30	310	2.95	-82.5	
	7	17.40	6.27	335	2.89	-74.5	
13:50	11.5	17.52	6.32	348	2.74	-84.5	

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

Strong petroleum odors noted with slight sheen in purge water

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-12

Project Name:	Vic's Automotive	Date of Sampling:	5/29/2007
Job Number:	111783	Name of Sampler:	R Bartlett
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)	16.27		
Water Elevation (feet above msl)	15.78		
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)	**11.2**		
Actual Volume Purged (gallons)	11.5		
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
13:29	1	18.02	6.69	361	10.39	-47.8	
	2	17.41	6.52	363	7.73	-47.9	
	3	17.36	6.46	361	6.20	-47.2	
	4	17.35	6.43	351	6.35	-47.3	
	5	17.33	6.41	352	4.87	-47.7	
	7	17.34	6.39	376	4.00	-49.1	
13:36	11.5	17.31	6.38	535	3.54	-50.1	

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

Strong petroleum odors noted

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-1-5

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**5**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water present in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-1-10

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**10**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water present in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-2-5

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**5**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water present in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-2-10

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**10**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-3-5

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**5**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-3-10

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**10**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-4-5

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**5**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-4-10

Project Name:	Vic's Automotive	Date of Sampling:	05/17/07
Job Number:	116907	Start Time:	
Project Address:	245 8th Street, Oakland	End Time:	
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	
Ending Vacuum (in. Hg)	
Flow Controller / Sampling Flow Rate (ml/min)	**167**
Tubing Inside Diameter (1/8" or 1/4")	**1/8"**
Tubing Type	**Kynar - PVDF**
Wellbox Condition	OK
Depth of Probe (ft bgs)	**10**
Number of Purge Volumes (default = 3 purge volumes)	**0**
Total Volume Purged (cc): formula valid only for tubing sizes of 1/8" I.D. (2.30 cc/ft) and 1/4" I.D. (9.20 cc/ft)	**0.0**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	**0**
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	
Flow Controller Number	
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Sampling not possible due to water in vapor well

cc = cubic centimeter mL = milliliter L = liter in. Hg = inches of mercury

1 L = 1000 mL
1 mL = 1 cc

white tape = 5-foot probe
red tape = 10-foot probe

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: 05/29/07
		Date Received: 05/29/07
	Client Contact: Ricky Bradford	Date Reported: 06/04/07
	Client P.O.:	Date Completed: 06/04/07

WorkOrder: 0705718

June 04, 2007

Dear Ricky:

Enclosed are:

1). the results of **7** 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

AEI 0705718

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: R Bradford	

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
MW-1						X					X	X		
MW-2			15:45	3	VOA	X					X	X		
MW-3			15:35			X					X	X		
MW-4			15:25			X					X	X		
MW-5			15:40			X					X	X		.
MW-6						X					X	X		
MW-7						X					X	X		
MW-10			15:50			X					X	X		
MW-11			16:00			X					X	X		
MW-12			15:55			X					X	X		

Analysis Request	Other	Comments
MBTEX & TPH as Gas b y 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		

Relinquished By:	Date:	Time:	Received By:
R Bradford	5/29	17:30	Envirotech T-L.
Relinquished By: Enviro-Tech S.R.	Date: 5/29	Time: 1812	Received By:
Relinquished By:	Date: 5/29	Time: 1830	Received By:

ICE/t° 9.4°c
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: 0705718 **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
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received **05/29/2007**
Date Printed: **05/30/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0705718-001	MW-2	Water	5/29/07 3:45:00	☐	A	A										
0705718-002	MW-3	Water	5/29/07 3:35:00	☐	A											
0705718-003	MW-4	Water	5/29/07 3:25:00	☐	A											
0705718-004	MW-5	Water	5/29/07 3:40:00	☐	A											
0705718-005	MW-10	Water	5/29/07 1:50:00	☐	A											
0705718-006	MW-11	Water	5/29/07 4:00:00	☐	A											
0705718-007	MW-12	Water	5/29/07 3:55:00	☐	A											

Test Legend:

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

Prepared by: Melissa Valles

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.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **5/29/07 7:27:21 PM**

Project Name: **#111783; Vic's Automotive**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0705718** Matrix Water

Carrier: Derik Cartan (MAI Courier)

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 shippping 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: 9.4°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:

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Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #111783; Vic's Automotive	Date Sampled: 05/29/07
2500 Camino Diablo, Ste. #200		Date Received: 05/29/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 05/31/07-06/02/07
	Client P.O.:	Date Analyzed 05/31/07-06/02/07

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0705718

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	49,000,a,h	4800	7600	4400	940	4600	100	101
002A	MW-3	W	ND	ND	ND	ND	ND	ND	1	107
003A	MW-4	W	ND	ND	ND	ND	ND	ND	1	95
004A	MW-5	W	86,000,a,h	ND<1000	6200	12,000	2000	11,000	200	99
005A	MW-10	W	100,000,a	ND<1000	5300	19,000	2600	12,000	200	100
006A	MW-11	W	230,000,a	19,000	35,000	39,000	3600	20,000	200	96
007A	MW-12	W	150,000,a	30,000	30,000	15,000	3100	13,000	200	95

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"

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0705718

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 28355				Spiked Sample ID: 0705724-003A			
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	92.4	113	20.4	98.2	94.6	3.76	70 - 130	30	70 - 130	30
MTBE	ND	10	93.1	117	22.4	93.3	99	5.96	70 - 130	30	70 - 130	30
Benzene	ND	10	103	99.3	3.84	99.8	100	0.403	70 - 130	30	70 - 130	30
Toluene	ND	10	102	109	7.41	92.4	92.1	0.251	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	102	106	3.61	101	100	0.451	70 - 130	30	70 - 130	30
Xylenes	ND	30	95.7	120	22.6	107	103	3.17	70 - 130	30	70 - 130	30
%SS:	95	10	110	97	12.6	96	98	1.33	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 28355 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0705718-001A	05/29/07 3:45 PM	06/01/07	06/01/07 3:24 AM	0705718-002A	05/29/07 3:35 PM	06/02/07	06/02/07 12:16 AM
0705718-003A	05/29/07 3:25 PM	05/31/07	05/31/07 11:29 PM	0705718-004A	05/29/07 3:40 PM	06/01/07	06/01/07 3:54 AM
0705718-005A	05/29/07 1:50 PM	06/01/07	06/01/07 4:23 AM	0705718-006A	05/29/07 4:00 PM	06/01/07	06/01/07 4:52 AM
0705718-007A	05/29/07 3:55 PM	06/01/07	06/01/07 5:21 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

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0705491A

Work Order Summary

CLIENT:	Mr. Ricky Bradford AEI Consultants, Inc. 2500 Camino Diablo Suite 200 Walnut Creek, CA 94597	**BILL TO:**	Mr. Ricky Bradford AEI Consultants, Inc. 2500 Camino Diablo Suite 200 Walnut Creek, CA 94597
PHONE:	925-283-6000	**P.O. #**	116907
FAX:	925-283-6121	**PROJECT #**	116907 Vic's Auto
DATE RECEIVED:	05/22/2007	**CONTACT:**	Sarah Nguyen
DATE COMPLETED:	06/05/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	GP-1-5	Modified TO-15	0.0 "Hg
01AA	GP-1-5 Lab Duplicate	Modified TO-15	0.0 "Hg
02A	GP-2-5	Modified TO-15	2.5 "Hg
03A	GP-2-10	Modified TO-15	1.0 "Hg
04A	GP-3-5	Modified TO-15	2.5 "Hg
05A	GP-3-10	Modified TO-15	3.5 "Hg
06A	GP-4-5	Modified TO-15	3.0 "Hg
07A	GP-3-5D	Modified TO-15	2.5 "Hg
08A	Lab Blank	Modified TO-15	NA
09A	CCV	Modified TO-15	NA
10A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda J. Furman DATE: 07/03/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
AEI Consultants, Inc.
Workorder# 0705491A

Seven 1 Liter Summa Canister samples were received on May 22, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: GP-1-5

Lab ID#: 0705491A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.0	2.0	6.8	14

Client Sample ID: GP-1-5 Lab Duplicate

Lab ID#: 0705491A-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.0	2.0	6.8	14

Client Sample ID: GP-2-5

Lab ID#: 0705491A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.1	62	7.5	420

Client Sample ID: GP-2-10

Lab ID#: 0705491A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.0	65	7.1	440

Client Sample ID: GP-3-5

Lab ID#: 0705491A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.4	9.1	8.3	17

Client Sample ID: GP-3-10

Lab ID#: 0705491A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Propanol	4.6	4.8	11	12
Ethanol	4.6	9.5	8.6	18

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: GP-4-5

Lab ID#: 0705491A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.5	7.8	8.4	15

Client Sample ID: GP-3-5D

Lab ID#: 0705491A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.1	2.4	7.5	16

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-1-5

Lab ID#: 0705491A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060207**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.02**	**Date of Analysis: 6/2/07 02:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	2.0	6.8	14
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
Ethanol	4.0	Not Detected	7.6	Not Detected
Methyl tert-butyl ether	1.0	Not Detected U J	3.6	Not Detected U J
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-1-5 Lab Duplicate

Lab ID#: 0705491A-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060208**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.02**	**Date of Analysis: 6/2/07 03:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	2.0	6.8	14
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
2-Propanol	4.0	Not Detected	9.9	Not Detected
Ethanol	4.0	Not Detected	7.6	Not Detected
Methyl tert-butyl ether	1.0	Not Detected U J	3.6	Not Detected U J
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-2-5

Lab ID#: 0705491A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060209**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 6/2/07 04:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	62	7.5	420
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Methyl tert-butyl ether	1.1	Not Detected U J	4.0	Not Detected U J
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-2-10

Lab ID#: 0705491A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060210**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.09**	**Date of Analysis: 6/2/07 05:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Trichloroethene	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	65	7.1	440
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Toluene	1.0	Not Detected	3.9	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
Ethanol	4.2	Not Detected	7.9	Not Detected
Methyl tert-butyl ether	1.0	Not Detected U J	3.8	Not Detected U J
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-5

Lab ID#: 0705491A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060211**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 6/2/07 05:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Ethanol	4.4	9.1	8.3	17
Methyl tert-butyl ether	1.1	Not Detected U J	4.0	Not Detected U J
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-10

Lab ID#: 0705491A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060212**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.29**	**Date of Analysis: 6/2/07 06:42 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
2-Propanol	4.6	4.8	11	12
Ethanol	4.6	9.5	8.6	18
Methyl tert-butyl ether	1.1	Not Detected U J	4.1	Not Detected U J
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-4-5

Lab ID#: 0705491A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060213**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 6/2/07 07:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Ethanol	4.5	7.8	8.4	15
Methyl tert-butyl ether	1.1	Not Detected U J	4.0	Not Detected U J
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-5D

Lab ID#: 0705491A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060214**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 6/2/07 08:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	2.4	7.5	16
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Methyl tert-butyl ether	1.1	Not Detected U J	4.0	Not Detected U J
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0705491A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/07 12:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected U J	1.8	Not Detected U J
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	87	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0705491A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/07 09:41 AM**	

Compound	%Recovery
Vinyl Chloride	86
Benzene	98
Ethyl Benzene	109
m,p-Xylene	107
o-Xylene	106
Trichloroethene	102
Tetrachloroethene	115
cis-1,2-Dichloroethene	94
Toluene	104
2-Propanol	87
Ethanol	85
Methyl tert-butyl ether	65 Q
trans-1,2-Dichloroethene	87
1,1-Dichloroethene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705491A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**1060203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/07 10:47 AM**	

Compound	**%Recovery**
Vinyl Chloride	94
Benzene	106
Ethyl Benzene	108
m,p-Xylene	107
o-Xylene	106
Trichloroethene	108
Tetrachloroethene	119
cis-1,2-Dichloroethene	107
Toluene	117
2-Propanol	107
Ethanol	104
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	97
1,1-Dichloroethene	109

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0705491B

Work Order Summary

CLIENT:	Mr. Ricky Bradford AEI Consultants, Inc. 2500 Camino Diablo Suite 200 Walnut Creek, CA 94597	**BILL TO:**	Mr. Ricky Bradford AEI Consultants, Inc. 2500 Camino Diablo Suite 200 Walnut Creek, CA 94597
PHONE:	925-283-6000	**P.O. #**	116907
FAX:	925-283-6121	**PROJECT #**	116907 Vic's Auto
DATE RECEIVED:	05/22/2007	**CONTACT:**	Sarah Nguyen
DATE COMPLETED:	06/05/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	GP-1-5	Modified TO-3	0.0 "Hg
02A	GP-2-5	Modified TO-3	2.5 "Hg
03A	GP-2-10	Modified TO-3	1.0 "Hg
04A	GP-3-5	Modified TO-3	2.5 "Hg
05A	GP-3-10	Modified TO-3	3.5 "Hg
06A	GP-4-5	Modified TO-3	3.0 "Hg
07A	GP-3-5D	Modified TO-3	2.5 "Hg
08A	Lab Blank	Modified TO-3	NA
09A	LCS	Modified TO-3	NA

CERTIFIED BY: Linda D. Fruman DATE: 06/05/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-3
AEI Consultants, Inc.
Workorder# 0705491B

Seven 1 Liter Summa Canister samples were received on May 22, 2007. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-3***	***ATL Modifications***
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: GP-1-5

Lab ID#: 0705491B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.050	0.21	0.11	0.46

Client Sample ID: GP-2-5

Lab ID#: 0705491B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.055	0.22	0.14	0.56

Client Sample ID: GP-2-10

Lab ID#: 0705491B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.052	0.21	0.18	0.75

Client Sample ID: GP-3-5

Lab ID#: 0705491B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.055	0.22	0.14	0.56

Client Sample ID: GP-3-10

Lab ID#: 0705491B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.057	0.23	0.37	1.5

Client Sample ID: GP-4-5

Lab ID#: 0705491B-06A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.056	0.23	0.21	0.87

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: GP-3-5D

Lab ID#: 0705491B-07A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.055	0.22	0.14	0.58

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-1-5

Lab ID#: 0705491B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052418**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.02**	**Date of Analysis: 5/24/07 08:08 PM**	

Compound	**Rpt. Limit (ppmv)**	**Rpt. Limit (uG/L)**	**Amount (ppmv)**	**Amount (uG/L)**
TPH (Gasoline Range)	0.050	0.21	0.11	0.46

Container Type: 1 Liter Summa Canister

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	102	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-2-5

Lab ID#: 0705491B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052412**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 5/24/07 04:20 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.055	0.22	0.14	0.56

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	89	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-2-10

Lab ID#: 0705491B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052413**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.09**	**Date of Analysis: 5/24/07 04:57 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.052	0.21	0.18	0.75

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-5

Lab ID#: 0705491B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052414**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 5/24/07 05:40 PM**	

Compound	**Rpt. Limit (ppmv)**	**Rpt. Limit (uG/L)**	**Amount (ppmv)**	**Amount (uG/L)**
TPH (Gasoline Range)	0.055	0.22	0.14	0.56

Container Type: 1 Liter Summa Canister

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	96	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-10

Lab ID#: 0705491B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052415**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.29**	**Date of Analysis: 5/24/07 06:07 PM**	

Compound	**Rpt. Limit (ppmv)**	**Rpt. Limit (uG/L)**	**Amount (ppmv)**	**Amount (uG/L)**
TPH (Gasoline Range)	0.057	0.23	0.37	1.5

Container Type: 1 Liter Summa Canister

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	94	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-4-5

Lab ID#: 0705491B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052416**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 5/24/07 06:48 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.056	0.23	0.21	0.87

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: GP-3-5D

Lab ID#: 0705491B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052417**	**Date of Collection: 5/17/07**	
Dil. Factor:	**2.20**	**Date of Analysis: 5/24/07 07:25 PM**	

Compound	**Rpt. Limit (ppmv)**	**Rpt. Limit (uG/L)**	**Amount (ppmv)**	**Amount (uG/L)**
TPH (Gasoline Range)	0.055	0.22	0.14	0.58

Container Type: 1 Liter Summa Canister

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	94	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0705491B-08A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 09:44 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	82	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705491B-09A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**d052422**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 10:28 PM**	

Compound	**%Recovery**
TPH (Gasoline Range)	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	96	75-150