AEI CONSULTANTS
ENVIRONMENTAL & ENGINEERING SERVICES

2500 Camino Diablo, Walnut Creek, CA 94597
tel 800-801-3224
fax 925-944-2895
www.aeiconsultants.com

February 13, 2008

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: **Quarterly Monitoring Report**
4th Quarter, 2007
245 8th Street
Oakland, California 94607
AEI Project No. 111783
ACHCSA Case No. RO0000202 / State ID 263

Dear Mr. Wickham:

Enclosed is one electronic copy of the recently completed Quarterly Monitoring Report (4th Quarter, 2007) prepared for the subject property.

Should you have any questions or comments, you may reach Peter McIntyre (925) 944-2899.

Sincerely,
AEI Consultants

Calvin Hee
Staff Engineer

February 13, 2008

QUARTERLY MONITORING REPORT
4th Quarter, 2007

245 8th Street
Oakland, California 94607

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

Prepared For

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

Prepared By

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

AEI

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February 13, 2008

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

Subject: **Quarterly Monitoring Report**
4th Quarter, 2007
245 8th Street
Oakland, California 94607
AEI Project No. 111783
ACEH No. RO0000202 / State ID 263

Dear Mr. Lum:

AEI Consultants (AEI) has prepared this report on behalf of Mr. Vic Lum of Vic's Automotive and documents the ongoing groundwater and soil gas investigation at the above-referenced property (Figure 1). This investigation was initiated by the property owner in accordance with the requirements of the Alameda County Environmental Health (ACEH) local oversight program. The purpose of this investigation is to monitor soil gas and groundwater associated with the release of fuel hydrocarbons from the former underground storage tank system. This report presents the findings of the 4th 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 of 1995. The first two episodes of monitoring revealed total petroleum hydrocarbons as gasoline (TPH-g) and Benzene up to 210,000 µg/L and 720 µg/L, respectively, in MW-2. Free phase gasoline product (LNAPL), was discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996. Additional investigation was conducted in August 1996; monitoring and LNAPL recovery occurring intermittently through 1998.

Monitoring wells (MW-3 and MW-4) were installed in May of 2001 following by additional onsite and offsite characterization in 2003 and 2005. A high vacuum dual phase extraction (HVDPE) pilot test was performed in July of 2005. Based on the favorable results of the test, a HVDPE system was installed and started up in 2007. The HVDPE system itself was installed in May 2007 with shakedown testing and system startup having taken place in June of 2007. The system was expanded to include MW-10, MW-11, and MW-12 as of November, 2007.

II. Summary of Groundwater Monitoring Activities

AEI performed monitoring activities in wells MW-1 through MW-7 and MW-10 through MW-12 on December 12, 2007. The HVDPE system was shutdown on December 10, 2007, two days prior to groundwater sampling activities. The well locations are shown in Figure 2. The depth from the top of the well casings was measured with an electric water level indicator prior to sampling. An oil-water interface meter was used to measure thickness of LNAPL in MW-1, MW-2, MW-6, MW-7, MW-10, MW-11, and MW-12. All wells with no measurable free product were purged of at least three well volumes of water with a submersible purge pump and sampled using disposable polyethylene bailers on December 12, 2007.

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 ten (10) groundwater samples were submitted for chemical analysis for analyses of TPH-g by Method SW8015Cm and Benzene, Toluene, Ethylbenzene, and total Xylenes and MTBE by Method SW8021B.

III. Field Results

No measurable thickness of free product was encountered in any of the monitoring wells. However, LNAPL sheen was noted in well MW-1, MW-6, MW-7, and MW-10.

Groundwater elevations for this monitoring event ranged from 13.10 (MW-11) to 15.60 (MW-6) feet above mean sea level (amsl). The groundwater elevations have likely been influenced by the dual-phase extraction remediation system. The historical groundwater flow direction is southerly.

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

IV. Summary of Soil Gas Sampling Activities

On December 12, 2007, soil gas samples were collected from nested 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 30 to 60 milliliter (mL) syringe connected via an on-off valve. 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 milliliters (mL), respectively. Three default purge volumes for the 5 and 10-foot probes are 48.3 and 82.8 mL, 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. A sampling manifold with a critical orifice flow controllers designed and provided by McCampbell Analytical Inc. was placed inline between the soil gas probe and Summa™ canister to ensure that it was filled at a constant rate of between 100 to 200 milliliters per minute (mL/min) as recommended by the ASGI. A new laboratory-certified clean sampling manifold was used at each sampling point. The presence of moisture was encountered in GP-2-10.

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 meet. 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 nine (9) soil gas samples, which included on field duplicate (GP-4-5D) were transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, Bay Point, California (Department of Health Services Certification #1644). Samples were analyzed for TPH-g by EPA Method Modified TO-3 and for select volatile organic compounds (VOCs) including BTEX, MTBE, Tetrachloroethene (PCE), 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 McCampbell Analytical, the analytical equipment was calibrated in conformance with the most current ASGI and the modified EPA Analytical Methods.

V. Groundwater Monitoring Results

For this monitoring event, the highest detected concentrations of fuel hydrocarbons were in MW-1, MW-6, MW-11, and MW-12. TPH-g, benzene, toluene, ethylbenzene, total xylenes, and MTBE were detected in these wells at concentrations up to 81,000 micrograms per liter (μg/L), 10,000 μg/L, 22,000 μg/L, 1,700 μg/L, 9,700 μg/L, and 6,700 μg/L, respectively. Lower but significant concentrations of TPH-g were detected in MW-2 (5,500 μg/L), MW-5 (8,200 μg/L), MW-7 (9,200 μg/L), and MW-10 (4,700 μg/L). Non-detectable concentrations at laboratory reporting limits of fuel hydrocarbons were detected in MW-3 and MW-4.

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

VI. Soil Gas Sampling Results

Concentrations of TPH-g were not detected at or above laboratory detection limits in all samples except for GP-4-10', which was detected at a concentration of 1,600 micrograms per cubic meter ($\mu g/m^3$). No additional analytes were detected at or above laboratory detection limits in all samples analyzed. Concentrations of PCE were not detected from GP-2-5' and GP-2-10' for the first time since soil gas sampling was undertaken.

VII. Summary and Upcoming Activities

This report presents the findings of the 4th Quarter, 2007 groundwater monitoring. The results of this groundwater monitoring episode are generally consistent with previous episodes. Significant LNAPL has been largely absent since HVPDE began operation, although elevated dissolved phase concentrations remain on and offsite.

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

- The 1st Quarter 2008 groundwater monitoring event is scheduled for early February 2008. Soil gas samples will be conducting if soils are sufficiently dry for sample collection.

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

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

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

Richard J. Bradford
Project Engineer

Peter J. McIntyre, PG, REA
Senior Project Manager

REGISTERED GEOLOGIST
PETER J. MCINTYRE
EXP 3/10
No. 7702
STATE OF CALIFORNIA

Figures

Tables

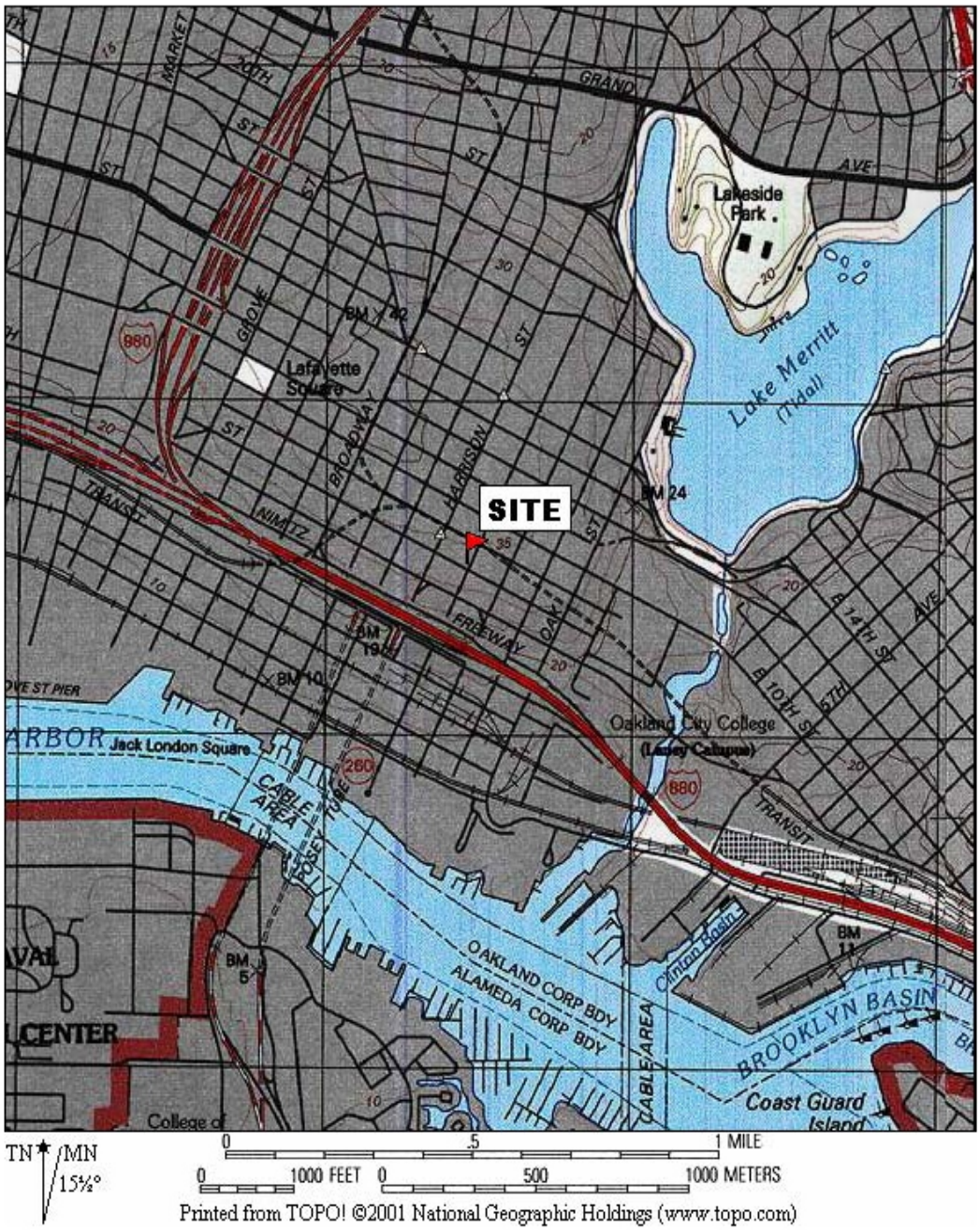
Report Distribution

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

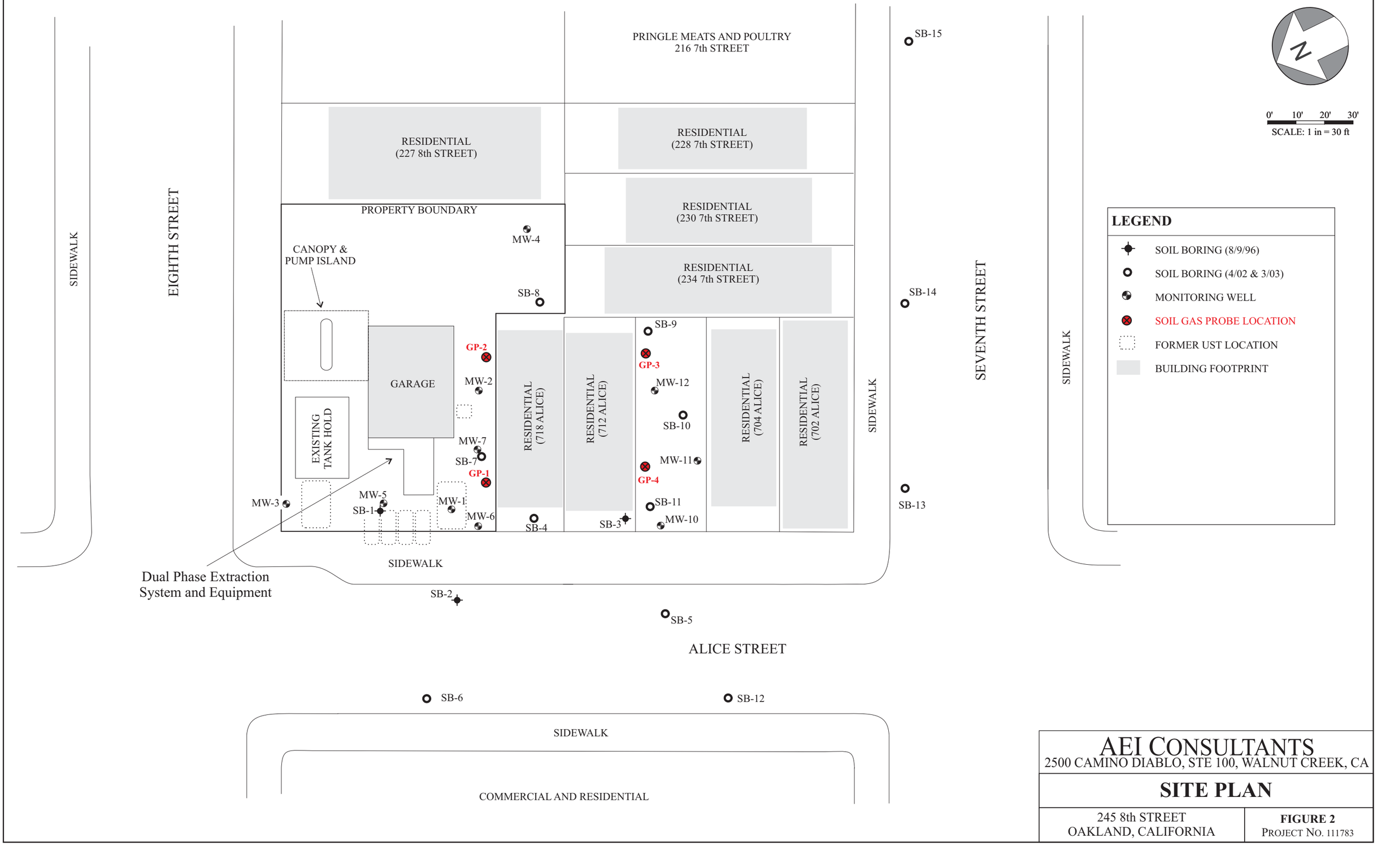
II) Mr. Jerry Wickham (electronic copy)
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

III) GeoTracker (electronic copy)

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



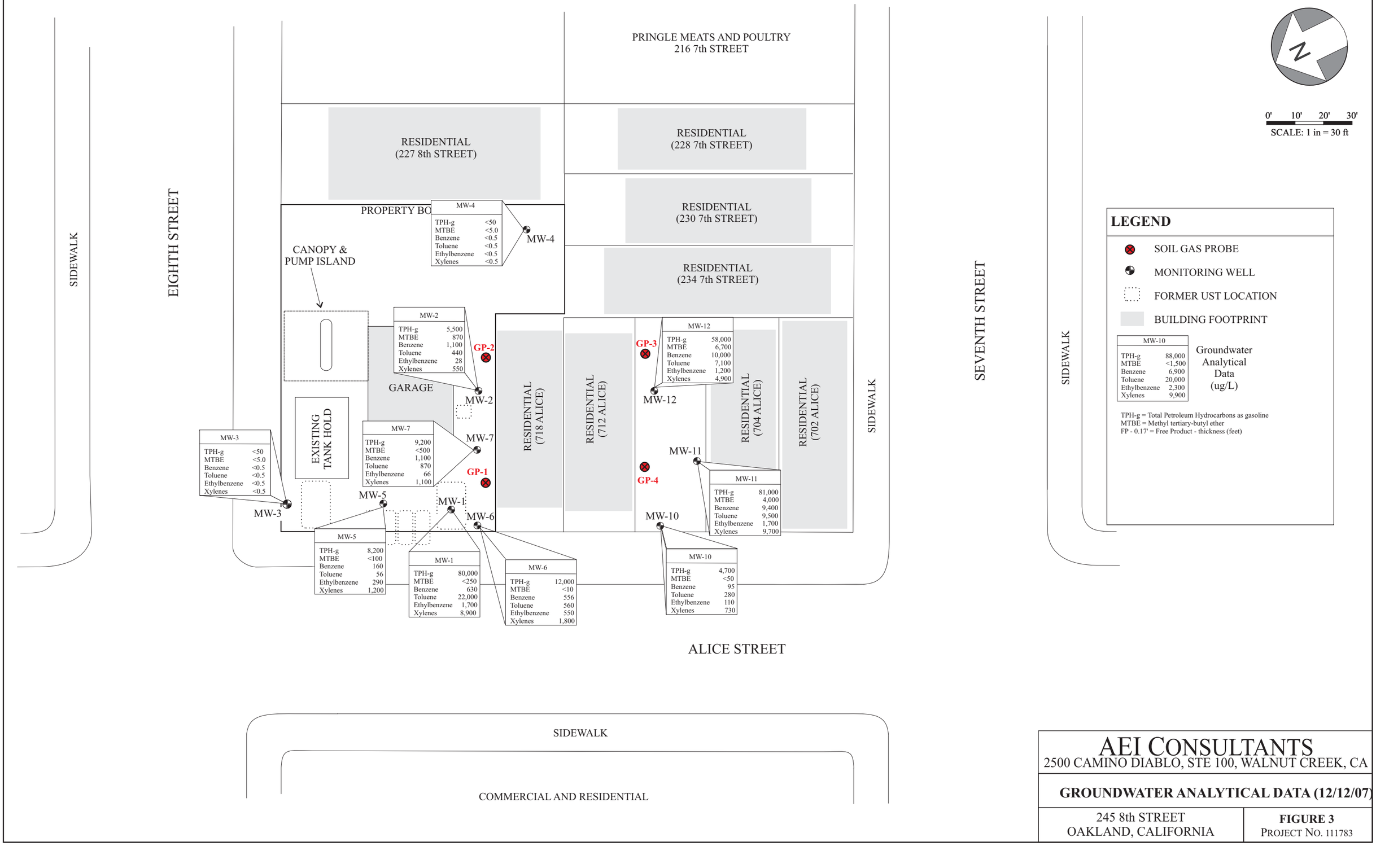
AEI CONSULTANTS

2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SITE PLAN

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 2
PROJECT NO. 111783



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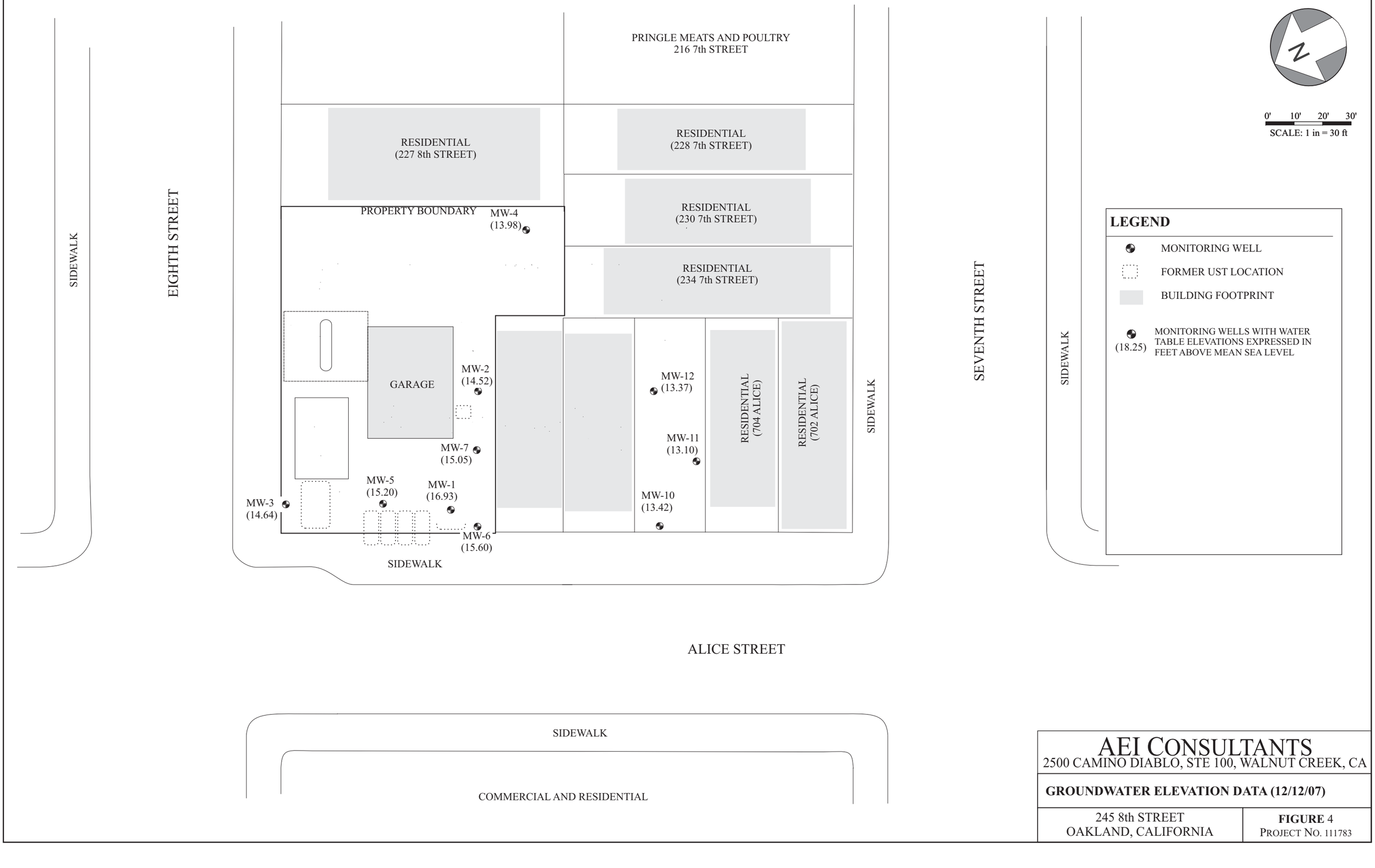
2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ANALYTICAL DATA (12/12/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 3
PROJECT NO. 111783



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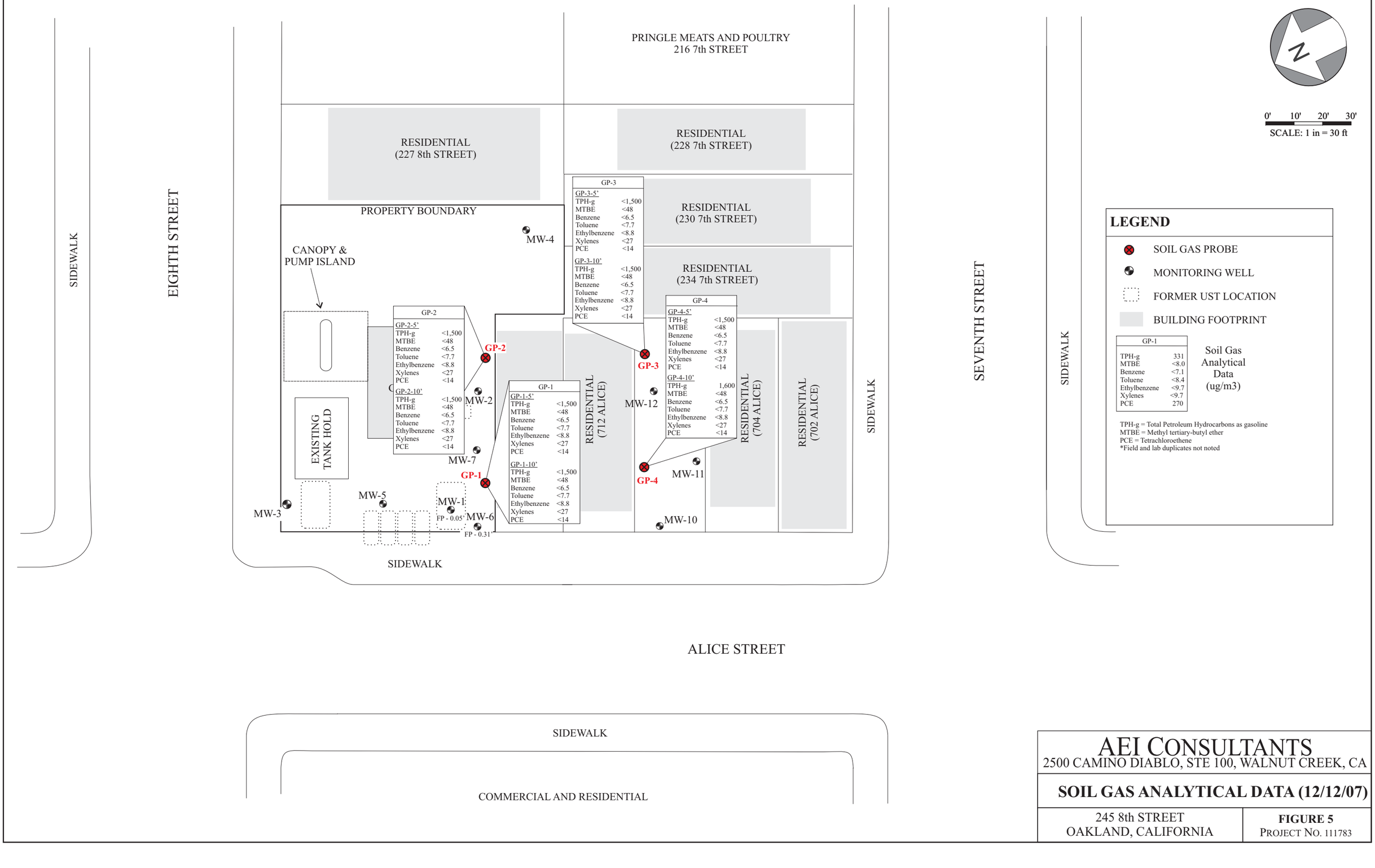
2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

GROUNDWATER ELEVATION DATA (12/12/07)

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 4
PROJECT NO. 111783



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2500 CAMINO DIABLO, STE 100, WALNUT CREEK, CA

SOIL GAS ANALYTICAL DATA (12/12/07)

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
	9/5/2007	32.55	16.33	16.22	-	Sheen
	12/12/2007	**32.55**	**17.62**	**14.93**	**-**	**Sheen**
MW-2	6/29/2001	28.16	16.14	12.02	-	-
(8-28)	10/10/2001	28.16	16.43	11.73	-	-
	1/9/2002	28.16	13.50	14.66	-	-
	4/24/2002	28.16	14.40	13.76	-	-
	7/24/2002	28.16	14.91	13.25	-	-
	11/5/2002	28.16	16.96	11.20	-	-
	2/4/2003	28.16	15.42	12.74	-	-
	5/2/2003	28.16	15.24	12.92	-	-
	8/4/2003	28.16	15.98	12.18	-	-
	11/3/2003	28.16	16.60	11.56	-	Sheen
	2/9/2004	28.16	15.22	12.94	-	Sheen
	5/10/2004	28.16	15.34	12.82	-	Sheen
	8/9/2004	28.16	15.92	12.24	-	Sheen
	11/9/2004	28.16	16.51	11.65	-	Sheen
	2/3/2005	33.24	14.44	18.80	-	Sheen
	5/9/2005	33.24	14.67	18.57	-	Sheen
	8/5/2005	33.24	16.27	16.97	-	Sheen
	11/9/2005	33.24	16.53	16.71	-	Sheen
	2/9/2006	33.24	14.36	18.88	-	Sheen
	5/4/2006	33.24	13.46	19.78	-	Sheen
	8/4/2006	33.24	15.95	17.29	-	Sheen
	11/8/2006	33.24	16.86	16.38	-	Sheen
	2/8/2007	33.24	17.13	16.11	-	Sheen
	5/29/2007	33.24	16.51	16.73	-	Sheen
	9/5/2007	33.24	17.48	15.76	-	-
	12/12/2007	**33.24**	**18.72**	**14.52**	**-**	**-**

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

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-3	6/29/2001	29.21	16.60	12.61	-	-
(10-25)	10/10/2001	29.21	16.92	12.29	-	-
	1/9/2002	29.21	14.20	15.01	-	-
	4/24/2002	29.21	15.07	14.14	-	-
	7/24/2002	29.21	16.40	12.81	-	-
	11/5/2002	29.21	16.47	12.74	-	-
	2/4/2003	29.21	16.92	12.29	-	-
	5/2/2003	29.21	15.45	13.76	-	-
	8/4/2003	29.21	16.46	12.75	-	-
	11/3/2003	29.21	17.15	12.06	-	-
	2/9/2004	29.21	15.78	13.43	-	-
	5/10/2004	29.21	15.77	13.44	-	-
	8/9/2004	29.21	16.45	12.76	-	-
	11/9/2004	29.21	17.26	11.95	-	-
	2/3/2005	34.25	15.92	18.33	-	-
	5/9/2005	34.25	15.03	19.22	-	-
	8/5/2005	34.25	16.59	17.66	-	-
	11/9/2005	34.25	16.82	17.43	-	-
	2/9/2006	34.25	14.65	19.60	-	-
	5/4/2006	34.25	13.61	20.64	-	-
	8/4/2006	34.25	16.28	17.97	-	-
	11/8/2006	34.25	17.28	16.97	-	-
	2/8/2007	34.25	17.68	16.57	-	-
	5/29/2007	34.25	17.37	16.88	-	-
	9/5/2007	34.25	18.53	15.72	-	-
	12/12/2007	**34.25**	**19.61**	**14.64**	**-**	**-**
MW-4	6/29/2001	29.38	17.71	11.67	-	-
(10-25)	10/10/2001	29.38	18.00	11.38	-	-
	1/9/2002	29.38	15.02	14.36	-	-
	4/24/2002	29.38	15.74	13.64	-	-
	7/24/2002	29.38	16.69	12.69	-	-
	11/5/2002	29.38	17.64	11.74	-	-
	2/4/2003	29.38	16.02	13.36	-	-
	5/2/2003	29.38	16.72	12.66	-	-
	8/4/2003	29.38	17.51	11.87	-	-
	11/3/2003	29.38	18.09	11.29	-	-
	2/9/2004	29.38	16.67	12.71	-	-
	5/10/2004	29.38	16.89	12.49	-	-
	8/9/2004	29.38	17.44	11.94	-	-
	11/9/2004	29.38	17.89	11.49	-	-
	2/3/2005	34.42	14.98	19.44	-	-
	5/9/2005	34.42	16.20	18.22	-	-
	8/5/2005	34.42	17.73	16.69	-	-
	11/9/2005	34.42	17.91	16.51	-	-
	2/9/2006	34.42	15.62	18.80	-	-
	5/4/2006	34.42	15.12	19.30	-	-
	8/4/2006	34.42	17.39	17.03	-	-
	11/8/2006	34.42	18.30	16.12	-	-
	2/8/2007	34.42	18.57	15.85	-	-
	5/29/2007	34.42	18.29	16.13	-	-
	9/5/2007	34.42	19.27	15.15	-	-
	12/12/2007	**34.42**	**20.44**	**13.98**	**-**	**-**

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

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-5	2/3/2005	33.33	14.23	19.10	-	-
(12-22)	5/9/2005	33.33	14.33	19.00	-	-
	8/5/2005	33.33	15.89	17.44	-	-
	11/9/2005	33.33	16.18	17.15	-	-
	2/9/2006	33.33	14.02	19.31	-	-
	5/4/2006	33.33	12.97	20.36	-	-
	8/4/2006	33.33	15.63	17.70	-	-
	11/8/2006	33.33	16.55	16.78	-	-
	2/8/2007	33.33	16.12	17.21	-	-
	5/29/2007	33.33	15.87	17.46	-	-
	9/5/2007	33.33	16.95	16.38	-	-
	12/12/2007	**33.33**	**18.13**	**15.20**	**-**	**-**
MW-6	2/3/2005	32.82	13.99	18.83	-	Sheen
(12-22)	5/9/2005	32.82	13.61	19.21	-	Sheen
	8/5/2005	32.82	15.50	17.32	15.13	0.37
	11/9/2005	32.82	15.87	16.95	15.50	0.37
	2/9/2006	32.82	13.93	18.89	13.22	0.71
	5/4/2006	32.82	12.88	19.94	12.13	0.75
	8/4/2006	32.82	15.22	17.60	14.81	0.41
	11/8/2006	32.82	16.16	16.66	15.78	0.38
	2/8/2007	32.82	15.48	17.34	15.14	0.34
	5/29/2007	32.82	15.35	17.47	15.04	0.31
	9/5/2007	32.82	15.55	17.27	-	-
	12/12/2007	**32.82**	**17.22**	**15.60**	**-**	**Sheen**
MW-7	2/3/2005	33.07	14.17	18.90	-	Sheen
(12-22)	5/9/2005	33.07	14.47	18.60	14.44	0.03
	8/5/2005	33.07	16.07	17.00	16.02	0.05
	11/9/2005	33.07	16.47	16.60	16.35	0.12
	2/9/2006	33.07	14.18	18.89	14.11	0.07
	5/4/2006	33.07	13.12	19.95	13.11	0.01
	8/4/2006	33.07	15.74	17.33	-	Sheen
	11/8/2006	33.07	16.59	16.48	-	Sheen
	2/8/2007	33.07	16.23	16.84	-	Sheen
	5/29/2007	33.07	16.13	16.94	-	Sheen
	9/5/2007	33.07	16.40	16.67	-	Sheen
	12/12/2007	**33.07**	**18.02**	**15.05**	**-**	**Sheen**
MW-10	2/3/2005	31.17	12.65	18.52	-	-
(12-22)	5/9/2005	31.17	13.09	18.08	-	-
	8/5/2005	31.17	14.68	16.49	-	-
	11/9/2005	31.17	14.94	16.23	-	-
	2/9/2006	31.17	12.82	18.35	-	-
	5/4/2006	31.17	12.11	19.06	-	-
	8/4/2006	31.17	14.38	16.79	-	-
	11/8/2006	31.17	15.32	15.85	-	-
	2/8/2007	31.17	15.59	15.58	-	-
	5/29/2007	31.17	15.27	15.90	-	-
	9/5/2007	31.17	16.25	14.92	-	-
	12/12/2007	**31.17**	**17.75**	**13.42**	**-**	**Sheen**
MW-11	2/3/2005	31.78	13.39	18.39	-	Sheen
(12-22)	5/9/2005	31.78	13.89	17.89	-	Sheen
	8/5/2005	31.78	15.47	16.31	-	Sheen
	11/9/2005	31.78	15.73	16.05	-	Sheen
	2/9/2006	31.78	13.53	18.25	-	Sheen

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

Well/Sample ID (screen interval)	Date Collected	TOC Well[1,2] Elevation (ft amsl)	Depth to Water (ft)	Groundwater[3] Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
	5/4/2006	31.78	12.73	19.05	-	Sheen
MW-11	8/4/2006	31.78	15.17	16.61	-	Sheen
Cont.	11/8/2006	31.78	16.15	15.63	-	-
	2/8/2007	31.78	16.36	15.42	-	Sheen
	5/29/2007	31.78	16.06	15.72	-	Sheen
	9/5/2007	31.78	17.03	14.75	-	Sheen
	12/12/2007	**31.78**	**18.68**	**13.10**	**-**	**-**
MW-12	2/3/2005	32.05	13.70	18.35	-	Sheen
(12-22)	5/9/2005	32.05	14.17	17.88	-	Sheen
	8/5/2005	32.05	15.69	16.36	-	Sheen
	11/9/2005	32.05	15.93	16.12	-	Sheen
	2/9/2006	32.05	13.78	18.27	-	Sheen
	5/4/2006	32.05	12.98	19.07	-	Sheen
	8/4/2006	32.05	15.39	16.66	-	Sheen
	11/8/2006	32.05	16.29	15.76	-	-
	2/8/2007	32.05	16.54	15.51	-	-
	5/29/2007	32.05	16.27	15.78	-	-
	9/5/2007	32.05	17.24	14.81	-	-
	12/12/2007	**32.02**	**18.65**	**13.37**	**-**	**-**

NOTES:

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

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

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

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

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

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

Episode #	Date	Average Groundwater Elevation[1] (ft amsl)	Change from Previous Episode (ft)	Flow direction (gradient)
1	6/29/2001	12.10	-	SSE (0.0074)
2	10/10/2001	11.80	-0.30	SSE (0.0071)
3	1/9/2002	14.68	2.88	SE (0.0054)
4	4/24/2002	13.85	-0.83	SSW (0.005)
5	7/24/2002	12.92	-0.93	NE (0.021)
6	11/5/2002	11.89	-1.02	SW (0.019)
7	2/4/2003	12.80	0.90	NNW (0.01)
8	5/2/2003	13.11	0.32	SSE (0.01)
9	8/4/2003	12.27	-0.85	SSE(0.007)
10	11/3/2003	11.64	-0.63	SSE (0.006)
11	2/9/2004	13.03	1.39	SSE (0.006)
12	5/10/2004	12.92	-0.11	SSE (0.008)
13	8/9/2004	12.31	-0.60	SSE (0.006)
14	11/9/2004	11.70	-0.62	SSE (0.004)
15	2/3/2005	18.75	-	W (0.007)
16	5/9/2005	18.53	-0.22	S (0.010)
17	8/5/2005	16.94	-1.59	S (0.010)
18	11/9/2005	16.65	-0.28	S (0.010)
19	2/9/2006	18.83	2.17	SSW (0.010)
20	5/4/2006	19.72	0.90	SSW (0.012)
21	8/4/2006	17.24	-2.48	SSW (0.010)
22	11/8/2006	16.32	-0.93	SSW(0.0007)
23	2/8/2007	16.25	-0.07	SSE (0.0009)
24	5/29/2007	16.60	0.35	SSE (0.0009)
25*	9/5/2007	15.77	-0.84	-
26*	**12/12/2007**	**14.38**	**-1.38**	**-**

NOTES:

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

- = not applicable

ft amsl = feet above mean sea level

* = Flow direcetion not calculated due to onsite operation of dual-phase extraction remediation system

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	-
	9/5/2007	Sheen	47,000	<500	4,200	11,000	1,100	6,400	-
	12/12/2007	**Sheen**	**80,000**	**<250**	**630**	**22,000**	**1,700**	**8,900**	-
MW-2	6/29/2001	0.0	69,000	4100/4400*	7,200	6,100	1,500	7,000	-
	10/10/2001	0.0	87,000	14,000	22,000	12,000	2,700	9,100	-
	1/9/2002	0.0	130,000	11,000	30,000	19,000	3,800	14,000	-
	4/24/2002	Sheen	210,000	32,000	38,000	23,000	4,600	19,000	-
	7/24/2002	Sheen	170,000	36,000	48,000	12,000	3,700	8,600	-
	11/5/2002	Sheen	190,000	36,000	45,000	25,000	4,600	16,000	-
	2/4/2003	Sheen	150,000	27,000	51,000	24,000	4,200	14,000	-
	5/2/2003	Sheen	150,000	35,000	39,000	11,000	3,800	9,900	-
	8/4/2003	Sheen	120,000	29,000	32,000	5,000	3,200	7,200	-
	11/3/2003	Sheen	120,000	24,000	33,000	4,300	3,200	5,400	-
	2/9/2004	Sheen	130,000	19,000	27,000	7,700	3,100	7,600	-
	5/10/2004	Sheen	67,000	13,000	20,000	3,000	2,300	4,100	-
	8/9/2004	Sheen	100,000	22,000	27,000	7,100	2,800	6,600	-
	11/9/2004	Sheen	100,000	23,000	27,000	6,100	3,000	5,600	-
	2/3/2005	Sheen	84,000	11,000	23,000	5,000	3,000	5,500	-
	5/9/2005	Sheen	74,000	14,000	21,000	4,200	2,300	3,300	-
	7/27/2005	Sheen	9,500	910	1,400	1,000	180	960	-
	8/5/2005	Sheen	74,000	4,000	8,800	11,000	1,300	7,600	-
	11/9/2005	Sheen	120,000	16,000	21,000	14,000	2,300	13,000	-
	2/9/2006	Sheen	120,000	10,000	18,000	16,000	2,200	13,000	-
	5/4/2006	Sheen	71,000	8,300	14,000	11,000	1,500	7,600	-
	8/4/2006	Sheen	160,000	14,000	22,000	14,000	2,400	11,000	-
	11/8/2006	Sheen	110,000	6,400	17,000	9,200	1,600	6,800	<MDL
	2/8/2007*	Sheen	68,000	5,400	11,000	7,800	1,500	7,700	-
	5/29/2007	Sheen	49,000	4,800	7,600	4,400	940	4,600	-
	9/5/2007	Sheen	25,000	1,000	3,300	3,400	490	2,800	-
	12/12/2007	**0.00**	**5,500**	**870**	**1,100**	**440**	**28**	**550**	-
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	-
	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		450	<5.0	<0.5	5.0	<0.5	0.77	-

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*
	5/2/2003	0.00	340	<5.0	7.3	10.0	2.5	7.3	-
	8/4/2003	0.00	170	<5.0	5.8	5.9	1.5	4.9	-
	11/3/2003	0.00	54	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/9/2004	0.00	190	<5.0	<0.5	3.6	<0.5	<0.5	-
	5/10/2004	0.00	280	<5.0	<0.5	3.4	<0.5	<0.5	-
	8/9/2004	0.00	290	<5.0	<0.5	3.8	<0.5	<0.5	-
	11/9/2004	0.00	220	<5.0	<0.5	4.0	<0.5	<0.5	-
	2/3/2005	0.00	160	<5.0	13	30	3	21	-
	5/9/2005	0.00	200	<5.0	<0.5	3.9	<0.5	<0.5	-
	8/5/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/9/2005	0.00	130	<5.0	<0.5	2.3	<0.5	<0.5	-
	2/9/2006	0.00	270	<5.0	<0.5	5.6	<0.5	<0.5	-
	5/4/2006	0.00	220	<5.0	<0.5	4.3	<0.5	<0.5	-
	8/4/2006	0.00	93	<5.0	<0.5	1.5	<0.5	<0.5	-
	11/8/2006	0.00	160	<5.0	<0.5	2.9	<0.5	<0.5	<MDL
	2/8/2007*	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/29/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	9/5/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/2007	**0.00**	**<50**	**<5.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
MW-4	6/29/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	10/10/2001	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	1/9/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	4/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	7/24/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/5/2002	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/4/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/2/2003	0.00	500	10	68	71	18	65	-
	8/4/2003	0.00	270	<5.0	30	29	9.2	32	-
	11/3/2003	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/10/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	8/9/2004	0.00	130	<5.0	14	13	5.3	17	-
	11/9/2004	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	2/3/2005	0.00	370	<5.0	<0.5	4.1	<0.5	0.64	-
	5/9/2005	0.00	840	<5.0	50	180	21	110	-
	7/27/2005	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	8/5/2005	0.00	310	<5.0	7.5	57	10	53	-
	11/9/2005	0.00	290	<5.0	12	61	8.8	49	-
	2/9/2006	0.00	250	<5.0	9.9	42	7.5	45	-
	5/4/2006	0.00	300	<5.0	37	76	7.8	42	-
	8/4/2006	0.00	270	<5.0	7.3	33	5.6	32	-
	11/8/2006	0.00	1,300	<5.0	75	230	31	160	<MDL
	2/8/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	5/29/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	9/5/2007	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/2007	**0.00**	**<50**	**<5.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
MW-5	2/3/2005	0.00	78,000	<1,000	7,600	13,000	2,200	9,600	-
	5/9/2005	0.00	60,000	<900	6,100	9,900	1,600	6,600	-
	7/27/2005	nm	120,000	1,100	10,000	19,000	2,100	13,000	-
	8/5/2005	0.00	59,000	<500	4,100	10,000	1,200	6,600	-
	11/9/2005	0.00	44,000	<500	3,300	7,400	1,100	4,900	-
	2/9/2006	0.00	110,000	<500	10,000	22,000	2,400	13,000	-
	5/4/2006	0.00	110,000	<250	11,000	22,000	2,900	15,000	-
	8/4/2006	0.00	73,000	<500	4,700	8,600	1,700	7,600	-
	11/8/2006	0.00	51,000	<500	3,700	7,200	1,400	6,700	<MDL
	2/8/2007	0.00	67,000	<800	5,100	10,000	1,800	10,000	-
	5/29/2007	0.00	86,000	<1000	6,200	12,000	2,000	11,000	-
	9/5/2007	0.00	36,000	<350	2,100	4,000	560	4,600	-
	12/12/2007	**0.00**	**8,200**	**<100**	**160**	**56**	**290**	**1,200**	**-**

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

Well/Sample ID	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	HVOC
			Method SW8015Cm			*Method SW8021B*			*Method 8260*
MW-6	2/3/2005	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000	-
	5/9/2005	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000	-
	8/5/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2006	0.71	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/4/2006	0.75	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2006	0.41	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/8/2006	0.38	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/8/2007	0.34	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/29/2007	0.31	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	9/5/2007	0.00	74,000	<750	870	7,000	2,400	12,000	-
	12/12/2007	**Sheen**	**12,000**	**<10**	**556**	**560**	**550**	**1,800**	**-**
MW-7	2/3/2005	Sheen	220,000	18,000	45,000	44,000	3,500	18,000	-
	5/9/2005	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/5/2005	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	2/9/2006	0.07	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	5/4/2006	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	8/4/2006	Sheen	230,000	19,000	37,000	37,000	3,100	14,000	-
	11/8/2006	Sheen	240,000	13,000	41,000	39,000	3,000	14,000	<MDL
	2/8/2007	Sheen	230,000	15,000	41,000	37,000	3,700	20,000	-
	5/29/2007	Sheen	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	9/5/2007	Sheen	14,000	<450	41	210	99	1,600	-
	12/12/2007	**Sheen**	**9,200**	**<500**	**1,100**	**870**	**66**	**1,100**	**-**
MW-10	2/3/2005	0.00	36,000	<500	4,700	7,200	660	3,400	-
	5/9/2005	0.00	88,000	<1,500	6,900	20,000	2,300	9,900	-
	8/5/2005	0.00	88,000	<1,100	10,000	21,000	1,900	9,800	-
	11/9/2005	0.00	63,000	<1,100	5,400	13,000	1,900	7,900	-
	2/9/2006	0.00	100,000	<500	6,600	19,000	2,900	13,000	-
	5/4/2006	0.00	100,000	<500	8,500	25,000	3,000	13,000	-
	8/4/2006	0.00	190,000	<2,200	17,000	35,000	2,800	13,000	-
	11/8/2006	0.00	57,000	<500	2,500	7,600	1,600	5,700	<MDL
	2/8/2007	0.00	69,000	<1,000	4,400	14,000	2,200	8,800	-
	5/29/2007	0.00	100,000	<1,000	5,300	19,000	2,600	12,000	-
	9/5/2007	0.00	87,000	<1,000	6,100	20,000	2,400	12,000	-
	12/12/2007	**Sheen**	**4,700**	**<50**	**95**	**280**	**110**	**730**	**-**
MW-11	2/3/2005	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000	-
	5/9/2005	Sheen	210,000	3,500	29,000	40,000	3,400	16,000	-
	7/27/2005	Sheen	220,000	2,500	26,000	37,000	3,200	18,000	-
	8/5/2005	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000	-
	11/9/2005	Sheen	180,000	9,100	32,000	47,000	3,600	18,000	-
	2/9/2006	Sheen	210,000	10,000	33,000	39,000	3,800	20,000	-
	5/4/2006	Sheen	190,000	12,000	34,000	41,000	3,500	17,000	-
	8/4/2006	Sheen	290,000	11,000	33,000	43,000	3,300	15,000	-
	11/8/2006	0.00	240,000	14,000	34,000	44,000	3,300	16,000	<MDL
	2/8/2007	0.00	230,000	19,000	43,000	44,000	3,900	20,000	-
	5/29/2007	0.00	230,000	19,000	35,000	39,000	3,600	20,000	-
	9/5/2007	0.00	200,000	19,000	34,000	36,000	3,700	23,000	-
	12/12/2007	**0.00**	**81,000**	**4,000**	**9,400**	**9,500**	**1,700**	**9,700**	**-**
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	-

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*
	5/4/2006	Sheen	160,000	47,000	33,000	28,000	2,800	10,000	-
MW-12	8/4/2006	Sheen	240,000	55,000	40,000	24,000	3,200	12,000	-
	11/8/2006	0.00	190,000	33,000	40,000	23,000	2,700	13,000	<MDL
	2/8/2007	0.00	150,000	34,000	38,000	19,000	3,300	12,000	-
	5/29/2007	0.00	150,000	30,000	30,000	15,000	3,100	13,000	-
	9/5/2007	0.00	160,000	38,000	33,000	21,000	3,200	14,000	-
	12/12/2007	**0.00**	**58,000**	**6,700**	**10,000**	**7,100**	**1,200**	**4,900**	**-**

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-1-5	**12/12/2007**	**5**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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-1-10	**12/12/2007**	**10**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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-2-5	**12/12/2007**	**5**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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-2-10	**12/12/2007**	**10**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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-3-5	**12/12/2007**	**5**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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-3-10	**12/12/2007**	**10**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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
GP-4-5	**12/12/2007**	**5**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
GP-4-5$_f$	**12/12/2007**	**5**	**<1500**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**

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	-	-	-	-	-	-	-	-	-	-	-	-
GP-4-10	**12/12/2007**	**10**	**1,600**	**<48**	**<6.5**	**<7.7**	**<8.8**	**<27**	**<96**	**<14**	**-**	**-**	**-**	**<25**
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

APPENDIX A

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-1

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.55		
Depth of Well	28.00		
Depth to Water (from top of casing)	17.62		
Depth to Free Product (from top of casing)	Not detected		
Water Elevation (feet above msl)	14.93		
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)	**20.2**		
Actual Volume Purged (gallons)	21.0		
Appearance of Purge Water	Dark but fast clearing with sheen		
Free Product Present?	No	Thickness (ft):	Sheen

GROUNDWATER SAMPLES

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

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
10:08	1	19.61	7.53	846	0.57	-183.4	Clear
10:09	2	19.90	7.47	831	0.27	-167.6	Clear
10:13	3	20.05	7.39	816	0.20	-162.7	Clear
10:16	6	20.40	7.20	768	0.16	-152.4	Clear
10:19	9	20.23	7.04	705	0.36	-124.9	Clear
10:22	12	20.09	6.90	699	1.20	-95.1	Clear
10:24	15	20.03	6.89	717	1.37	-90.6	Clear
	18	20.01	6.89	724	1.57	-86.8	Clear
	21	20.01	6.88	724	1.84	-84.6	Clear

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

Dark with strong hydrocarbon odors. Fast clearing with sheen present in purge water

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-2

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.24		
Depth of Well	28.00		
Depth to Water (from top of casing)	18.72		
Water Elevation (feet above msl)	14.52		
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)	**4.4**		
Actual Volume Purged (gallons)	5.0		
Appearance of Purge Water	Slightly dark		
Free Product Present?		Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
8:50	1	18.40	6.80	961	1.30	-99.7	Slightly dark
8:51	2	18.50	6.73	961	0.70	-87.1	Clear
8:52	3	18.58	6.69	985	0.43	-75.9	Clear
8:53	4	18.67	6.69	934	0.34	-58.2	Clear
8:54	5	18.64	6.61	891	0.24	-43.6	Clear

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

Cloudy and dark with strong hydrocarbon odors. Clears by 1.5 gallons

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.25		
Depth of Well	25.00		
Depth to Water (from top of casing)	19.61		
Water Elevation (feet above msl)	14.64		
Well Volumes Purged	3		
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	**10.6**		
Actual Volume Purged (gallons)	11		
Appearance of Purge Water	Slightly brown, fast clearing		
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
7:06	1	19.78	6.44	885	1.89	151.0	Clear
7:07	2	20.03	6.48	834	1.17	144.0	Clear
7:08	3	20.12	6.47	838	0.97	61.1	Clear
7:10	4	20.16	6.46	849	0.86	10.1	Clear
7:12	5	20.20	6.47	858	0.80	-7.9	Clear
7:14	7	20.22	6.41	931	0.50	2.1	Clear
7:16	9	20.22	6.41	929	0.47	5.1	Clear
	11	20.23	6.40	937	0.47	8.7	Clear

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

Slightly brown with no hydrocarbon odors. Clears by 1 gallon

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-4

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	34.42		
Depth of Well	25.00		
Depth to Water (from top of casing)	20.44		
Water Elevation (feet above msl)	13.98		
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)	**8.8**		
Actual Volume Purged (gallons)	9.0		
Appearance of Purge Water	Brown towards end, but otherwise 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
8:17	1	17.99	6.48	633	6.00	82.5	Clear
8:18	2	18.27	6.40	572	5.23	99.2	Clear
8:19	3	18.37	6.38	557	5.35	106.0	Clear
8:20	4	18.42	6.36	557	5.26	103.7	Clear
8:21	5	18.43	6.36	554	5.19	103.9	Clear
8:22	6	18.38	6.39	608	4.66	110.9	Clear
8:23	7	18.36	6.40	619	4.40	104.6	Clear
	8	18.28	6.42	641	4.80	51.4	Brown
	9	18.35	6.35	582	4.59	87.7	Clear

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

Brown towards the end with no hydrocarbon odors. Fast clearing.

Well dried out at 7 gallons and recharged at 8:37 am.

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-5

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.33		
Depth of Well	22.00		
Depth to Water (from top of casing)	18.13		
Water Elevation (feet above msl)	15.20		
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)	**7.5**		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water	Dark gray, clears by 0.5 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
9:02	1	20.59	7.01	753	1.13	-151.9	Clear
9:03	2	21.01	6.91	714	0.59	-142.0	Clear
9:04	3	21.20	6.84	690	0.37	-124.7	Clear
9:05	4	21.08	6.84	694	0.29	-123.0	Clear
9:06	5	20.88	7.00	720	0.26	-131.5	Clear
9:25	6	20.89	6.83	666	1.39	-97.7	Clear
9:26	8	20.97	6.80	643	1.46	-86.9	Clear

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

Dark Grey with strong hydrocarbon odors. Clears at 0.5 gallons.

Well went dry at 5.5 gallons and recharged at 9:24am

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-6

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.82		
Depth of Well	22.00		
Depth to Water (from top of casing)	17.22		
Depth to Free Product (from top of casing)	None		
Water Elevation (feet above msl)	15.60		
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)	**9.3**		
Actual Volume Purged (gallons)	10.0		
Appearance of Purge Water	Light gray, fast clearing with light sheen		
Free Product Present?	No	Thickness (ft):	Light 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
10:54	1	19.74	6.60	725	0.82	-60.9	Clear
10:55	2	20.02	6.53	722	0.44	-60.1	Clear
10:56	3	20.18	6.50	685	0.31	-62.5	Clear
10:57	4	20.09	6.54	670	0.29	-64.9	Clear
10:58	5	20.05	6.54	669	0.27	-64.7	Clear
	6	19.83	6.55	741	0.26	-70.5	Clear
	8	19.76	6.59	756	0.30	-74.3	Clear
	10	19.71	6.59	758	0.33	-74.8	Clear

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

Light grey, strong hydrocarbon odors present with light sheen on water. Fast clearing. Drop tub at 20'

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-7

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	33.07		
Depth of Well	22.00		
Depth to Water (from top of casing)	18.02		
Depth to Free Product (from top of casing)	NONE		
Water Elevation (feet above msl)	15.05		
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)	**7.7**		
Actual Volume Purged (gallons)	8.0		
Appearance of Purge Water	Clear		
Free Product Present?		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
9:34	1	18.95	6.77	1,110	1.11	-113.7	Clear
9:35	2	19.20	6.76	1,120	0.70	-112.2	Clear
9:36	3	19.34	6.73	1,105	0.36	-107.9	Clear
9:37	4	19.11	6.81	863	0.85	-93.2	Clear
10:00	5	18.94	6.83	851	2.00	-75.0	Clear
10:01	6	19.02	6.84	848	1.60	-76.2	Clear
10:02	8	19.07	6.84	852	1.26	-76.9	Clear

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

Amost clear with strong hydrocarbon odors present. Sheen observed in purge water. Well went dry at 4 gallons and recharged at 10:00 am. Tube at 20'

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-10

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.17		
Depth of Well	22.00		
Depth to Water (from top of casing)	17.75		
Water Elevation (feet above msl)	13.42		
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)	**8.2**		
Actual Volume Purged (gallons)	9		
Appearance of Purge Water	Milky gray with sheen, fast clearing		
Free Product Present?	No	Thickness (ft):	sheen

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
11:47	1	19.00	6.64	464	1.15	-44.2	Clear
11:48	2	19.12	6.60	456	0.56	-42.1	Clear
11:49	3	19.24	6.56	447	0.40	-42.5	Clear
11:50	4	19.24	6.56	444	0.36	-43.3	Clear
11:51	5	19.24	6.56	444	0.31	-44.4	Clear
11:52	6	19.22	6.58	444	0.27	-46.6	Clear
11:53	7	19.18	6.61	443	0.21	-50.2	Clear
	9	19.13	6.66	453	0.23	-54.6	Clear

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

Milky grey with strong hydrocarbon odors sheen present in purged water, fast clearing.

Dropped tube at 18'

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-11

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	31.78		
Depth of Well	22.00		
Depth to Water (from top of casing)	18.68		
Water Elevation (feet above msl)	13.10		
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)	**6.4**		
Actual Volume Purged (gallons)	7.0		
Appearance of Purge Water	Dark, clears by 1.0 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
11:36	1	18.09	6.54	835	2.08	-39.7	Clear
	2	18.42	6.52	744	1.38	-29.9	Clear
	3	18.49	6.49	744	1.56	-22.2	Clear
	4	18.50	6.51	814	0.51	-36.1	Clear
	5	18.49	6.53	823	0.47	-40.7	Clear
	6	18.48	6.59	819	0.46	-44.1	Clear
11:42	7	18.45	6.62	820	0.46	-46.0	Clear

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

Dark with strong hydrocarbon odors. Clears at 1 gallon. Dropped tube at 19'

AEI CONSULTANTS

GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-12

Project Name:	Vic's Automotive	Date of Sampling:	12/12/2007
Job Number:	116907	Name of Sampler:	A Nieto
Project Address:	245 8th Street, Oakland		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	4		
Wellhead Condition	OK		
Elevation of Top of Casing (feet above msl)	32.05		
Depth of Well	22.00		
Depth to Water (from top of casing)	18.65		
Water Elevation (feet above msl)	13.40		
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)	**6.5**		
Actual Volume Purged (gallons)	7.0		
Appearance of Purge Water	Clear		
Free Product Present?	No	Thickness (ft):	

GROUNDWATER SAMPLES

Number of Samples/Container Size: 3 VOAs

Time	Vol Removed (gal)	Temperature (deg C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (meV)	Comments
11:58	1	18.23	6.58	808	0.85	-32.2	Clear
11:59	2	18.28	6.58	805	0.52	-32.1	Clear
12:00	3	18.33	6.56	811	0.40	-29.1	Clear
12:01	4	18.30	6.51	837	0.31	-26.9	Clear
12:02	5	18.35	6.48	947	0.27	-26.2	Clear
12:03	6	18.31	6.52	898	0.27	-31.8	Clear
12:04	7	18.34	6.65	878	0.24	-40.0	Clear

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

Clear with strong hydrocarbon odors. Dropped tube at 19'

AEI CONSULTANTS

SOIL GAS SAMPLING FIELD FORM

Soil Gas Probe Number: GP-1-5

Project Name:	Vic's Automotive	Date of Sampling:	12/11/07
Job Number:	116907	Start Time:	11:47
Project Address:	245 8th Street, Oakland	End Time:	11:52
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-26
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**48.8**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1263
Flow Controller Number	MAN316-666
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

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:	12/11/07
Job Number:	116907	Start Time:	11:41
Project Address:	245 8th Street, Oakland	End Time:	11:45
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-27
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**82.8**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1267
Flow Controller Number	MAN316-663
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

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:	12/11/07
Job Number:	116907	Start Time:	10:40
Project Address:	245 8th Street, Oakland	End Time:	10:50
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-28
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**48.3**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1261
Flow Controller Number	MAN316-675
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

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:	12/11/07
Job Number:	116907	Start Time:	11:00
Project Address:	245 8th Street, Oakland	End Time:	11:06
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-26
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**82.8**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	Possibility
Moisture Present in Tubing?	Yes

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1268
Flow Controller Number	MAN316-682
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Rained on December 6, 2007

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:	12/11/07
Job Number:	116907	Start Time:	1:39
Project Address:	245 8th Street, Oakland	End Time:	1:43
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-29
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**48.3**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1264
Flow Controller Number	MAN316-672
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

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:	12/11/07
Job Number:	116907	Start Time:	1:47
Project Address:	245 8th Street, Oakland	End Time:	1:52
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-29
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**82.8**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1265
Flow Controller Number	MAN316-681
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

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:	12/11/07
Job Number:	116907	Start Time:	12:36
Project Address:	245 8th Street, Oakland	End Time:	12:44
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-28
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**48.3**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1266
Flow Controller Number	MAN316-679
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Field duplicate collected. Canister #1460

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:	12/11/07
Job Number:	116907	Start Time:	12:52
Project Address:	245 8th Street, Oakland	End Time:	12:56
		Name of Sampler:	R. Bradford

SOIL GAS PROBE DATA

Starting Vacuum (in. Hg)	-25
Ending Vacuum (in. Hg)	-5
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)	**3**
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)	**82.8**
Purge Time (sec): formula assumes full length of soil gas probe tubing (5 or 10ft) plus 2ft above ground for sampling	
Appreciable Amount of Rain (>1/2") in Last Five Days?	
Moisture Present in Tubing?	No

SOIL GAS SAMPLES

Number of Samples / Container Size and Type	One (1) 1-Liter Summa Canister
Canister Number	1262
Flow Controller Number	MAN316-688
Leak Check Compound	Isopropyl Alcohol (i.e., Rubbing Alcohol)

NOTES & COMMENTS

Back pressure was at -6.0

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

APPENDIX B

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: # 116907; Vic's Automotive	Date Sampled: 12/12/07
		Date Received: 12/12/07
	Client Contact: Ricky Bradford	Date Reported: 12/18/07
	Client P.O.:	Date Completed: 12/18/07

WorkOrder: 0712370

December 18, 2007

Dear Ricky:

Enclosed within are:

1) The results of the **10** analyzed samples from your project: **# 116907; Vic's Automotive,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0712370

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 #: 116907	Project Name: Vic's Automotive
Project Location: 245 8th Street, Oakland	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO_3	Other	Analysis Request: MBTEX & TPH as Gas 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	Other	Comments
MW-1		12/12/07	10:37	3	Voas	X					X	X			X																
MW-2			9:18			X					X	X			X																
MW-3			9:35			X					X	X			X																
MW-4			12:30			X					X	X			X																
MW-5			9:50			X					X	X			X																
MW-6			11:25			X					X	X			X																
MW-7			10:50			X					X	X			X																
MW-10			12:20			X					X	X			X																
MW-11			12:15			X					X	X			X																
MW-12			12:35			X					X	X			X																

Relinquished By:	Date:	Time:	Received By:
	12/12/07	5:00	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

	VOAS	O&G	METALS	OTHER
PRESERVATION				

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

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0712370 **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) 283-6000 FAX: (925) 944-2895
ProjectNo: # 116907; Vic's Automotive
PO:

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **12/12/2007**
Date Printed: **12/12/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0712370-001	MW-1	Water	12/12/2007	☐	A	A										
0712370-002	MW-2	Water	12/12/2007	☐	A											
0712370-003	MW-3	Water	12/12/2007	☐	A											
0712370-004	MW-4	Water	12/12/2007	☐	A											
0712370-005	MW-5	Water	12/12/2007	☐	A											
0712370-006	MW-6	Water	12/12/2007	☐	A											
0712370-007	MW-7	Water	12/12/2007	☐	A											
0712370-008	MW-10	Water	12/12/2007	☐	A											
0712370-009	MW-11	Water	12/12/2007	☐	A											
0712370-010	MW-12	Water	12/12/2007	☐	A											

Test Legend:

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

Prepared by: Kimberly Burks

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: **12/12/2007 5:06:37 PM**

Project Name: **# 116907; Vic's Automotive**

Checklist completed and reviewed by: Kimberly Burks

WorkOrder N°: **0712370** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

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

Client contacted: Date contacted: Contacted by:

Comments:

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: # 116907; Vic's Automotive	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/12/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/15/07-12/18/07
	Client P.O.:	Date Analyzed 12/15/07-12/18/07

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0712370

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	80,000,a	ND<250	630	22,000	1700	8900	50	107
002A	MW-2	W	5500,a	870	1100	440	28	550	10	98
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	113
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	105
005A	MW-5	W	8200,a	ND<100	160	56	290	1200	20	104
006A	MW-6	W	12,000,a	ND<10	56	560	550	1800	10	110
007A	MW-7	W	9200,a	ND<500	1100	870	66	1100	10	98
008A	MW-10	W	4700,a	ND<50	95	280	110	730	10	102
009A	MW-11	W	81,000,a	4000	9400	9500	1700	9700	50	99
010A	MW-12	W	58,000,a	6700	10,000	7100	1200	4900	50	94

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0712370

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 32488	Spiked Sample ID: 0712356-019A

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	91.1	108	16.6	85.4	98.5	14.2	70 - 130	30	70 - 130	30
MTBE	ND	10	114	111	2.51	102	95.7	6.53	70 - 130	30	70 - 130	30
Benzene	ND	10	92.8	95.4	2.76	89.7	94.1	4.79	70 - 130	30	70 - 130	30
Toluene	ND	10	90.3	93.7	3.72	89.6	94.1	4.91	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	102	107	4.63	101	107	5.22	70 - 130	30	70 - 130	30
Xylenes	ND	30	100	107	6.45	96.7	107	9.84	70 - 130	30	70 - 130	30
%SS:	111	10	96	96	0	102	99	2.10	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 32488 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712370-001A	12/12/07 10:37 AM	12/15/07	12/15/07 10:33 AM	0712370-001A	12/12/07 10:37 AM	12/16/07	12/16/07 2:08 AM
0712370-002A	12/12/07 9:18 AM	12/18/07	12/18/07 8:09 AM	0712370-003A	12/12/07 8:35 AM	12/15/07	12/15/07 12:58 PM
0712370-004A	12/12/07 12:30 PM	12/15/07	12/15/07 1:28 PM	0712370-005A	12/12/07 9:50 AM	12/15/07	12/15/07 11:42 AM
0712370-006A	12/12/07 11:25 AM	12/15/07	12/15/07 4:56 PM	0712370-007A	12/12/07 10:40 AM	12/15/07	12/15/07 5:31 PM
0712370-008A	12/12/07 12:20 PM	12/15/07	12/15/07 8:22 PM	0712370-009A	12/12/07 12:15 PM	12/16/07	12/16/07 3:57 PM
0712370-010A	12/12/07 12:35 PM	12/16/07	12/16/07 7:01 PM				

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.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Reported: 12/20/07
	Client P.O.:	Date Completed: 12/20/07

WorkOrder: 0712399

December 20, 2007

Dear Ricky:

Enclosed within are:

1) The results of the **9** analyzed samples from your project: **#116907; Vic's,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0712399

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
www.main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

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

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Ricky Bradford	Bill To: SAME
Company: AEI Consultants	
2500 Camino Diablo	
Walnut Creek, CA	E-Mail: rbartletta
Tele: (925) 944-2899	Fax: (925) 944-2895
Project #: 116907	Project Name: Vic's
Project Location:	
Sampler Signature:	

Lab Use Only

Pressurized By	Date	Pressurization Gas	
		N2	He

Notes:

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
GP-1-5	12/12	11:52	~~1264~~ 1263		TPH-g (TO-3) / MBTEX, Ethanol, PCE, 2-Propanol (TO-15)		X	-30	-5		
GP-1-10	12/12	11:45	1267 (Can Labled GP-2-10)				X	-30	-5		
GP-2-5	12/12	~~11:50~~	1261				X	-30	-5		
GP-210	12/12	11:06	1268				X	-30	-5		
GP-3-5	12/12	1:43	1264				X	-30	-5		
GP-3-10	12/12	1:52	1265				X	-30	-5		
GP-4-5	12/12	12:44	1266				X	-30	-5		
GP-4-10	12/12	12:56	1262				X	-30	-5		
GP-4-5-D	12/12	12:44	1460								

Relinquished By:	Date:	Time:	Received By:
[signature]	12/13	8:30	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C): _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0712399 **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) 283-6000 FAX: (925) 944-2895
ProjectNo: #116907; Vic's
PO:

Bill to:
Denise Mockel
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
dmockel@aeiconsultants.com

Requested TAT: 5 days

Date Received: **12/13/2007**
Date Printed: **12/13/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0712399-001	GP-1-5	Soil Vapor	12/12/07 1:52:00	☐	A	A										
0712399-002	GP-1-10	Soil Vapor	12/12/07 11:45:00	☐	A	A										
0712399-003	GP-2-5	Soil Vapor	12/12/07 10:50:00	☐	A	A										
0712399-004	GP-2-10	Soil Vapor	12/12/07 11:06:00	☐	A	A										
0712399-005	GP-3-5	Soil Vapor	12/12/07 1:43:00	☐	A	A										
0712399-006	GP-3-10	Soil Vapor	12/12/07 1:52:00	☐	A	A										
0712399-007	GP-4-5	Soil Vapor	12/12/07 12:44:00	☐	A	A										
0712399-008	GP-4-10	Soil Vapor	12/12/07 12:56:00	☐	A	A										
0712399-009	GP-4-5-D	Soil Vapor	12/12/07 12:44:00	☐	A	A										

Test Legend:

1	TO15_SOIL(UG/M3)	2	TO3_SOILGAS	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A contain testgroup.

Prepared by: Maria Venegas

Comments:

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

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Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **12/13/07 8:35:30 AM**

Project Name: **#116907; Vic's**

Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **0712399** Matrix Soil Vapor

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		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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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

Lab ID	0712399-001A	0712399-002A	0712399-003A	0712399-004A	Reporting Limit for DF =1	
Client ID	GP-1-5	GP-1-10	GP-2-5	GP-2-10		
Matrix	Air	Air	Air	Air		
Initial Pressure	11.62	11.84	12.41	11.57		
Final Pressure	23.19	23.64	24.78	23.11	S	A
Compound	**Concentration**				ug/kg	µg/m³
Benzene	ND	ND	ND	ND	NA	6.5
Ethanol	ND	ND	ND	ND	NA	96
Ethylbenzene	ND	ND	ND	ND	NA	8.8
Isopropyl Alcohol	ND	ND	ND	ND	NA	25
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	48
Tetrachloroethene	ND	ND	ND	ND	NA	14
Toluene	ND	ND	ND	ND	NA	7.7
Xylenes	ND	ND	ND	ND	NA	27
Surrogate Recoveries (%)						
%SS1:	85	88	85	87		
%SS2:	96	100	97	100		
%SS3:	96	99	97	100		
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

DHS ELAP Certification N° 1644

_____ Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

Lab ID	0712399-005A	0712399-006A	0712399-007A	0712399-008A	Reporting Limit for DF =1	
Client ID	GP-3-5	GP-3-10	GP-4-5	GP-4-10		
Matrix	Air	Air	Air	Air		
Initial Pressure	13.12	12.66	12.59	12.12		
Final Pressure	26.24	25.32	25.14	24.23	S	A
Compound	**Concentration**				ug/kg	µg/m³
Benzene	ND	ND	ND	ND	NA	6.5
Ethanol	ND	ND	ND	ND	NA	96
Ethylbenzene	ND	ND	ND	ND	NA	8.8
Isopropyl Alcohol	ND	ND	ND	ND	NA	25
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	48
Tetrachloroethene	ND	ND	ND	ND	NA	14
Toluene	ND	ND	ND	ND	NA	7.7
Xylenes	ND	ND	ND	ND	NA	27
Surrogate Recoveries (%)						
%SS1:	86	87	86	90		
%SS2:	98	99	100	100		
%SS3:	98	98	99	100		
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

DHS ELAP Certification N° 1644

_____ Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

					Reporting Limit for DF =1	
Lab ID	0712399-009A					
Client ID	GP-4-5-D					
Matrix	Air					
Initial Pressure	12.58					
Final Pressure	25.07				S	A
Compound	**Concentration**				ug/kg	µg/m³
Benzene	ND				NA	6.5
Ethanol	ND				NA	96
Ethylbenzene	ND				NA	8.8
Isopropyl Alcohol	ND				NA	25
Methyl-t-butyl ether (MTBE)	ND				NA	48
Tetrachloroethene	ND				NA	14
Toluene	ND				NA	7.7
Xylenes	ND				NA	27
Surrogate Recoveries (%)						
%SS1:	84					
%SS2:	97					
%SS3:	97					
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

Lab ID	0712399-001A	0712399-002A	0712399-003A	0712399-004A	Reporting Limit for DF =1	
Client ID	GP-1-5	GP-1-10	GP-2-5	GP-2-10		
Matrix	Air	Air	Air	Air		
Initial Pressure	11.62	11.84	12.41	11.57		
Final Pressure	23.19	23.64	24.78	23.11	S	A
Compound	**Concentration**				ug/kg	nL/L
Benzene	ND	ND	ND	ND	NA	2.0
Ethanol	ND	ND	ND	ND	NA	50
Ethylbenzene	ND	ND	ND	ND	NA	2.0
Isopropyl Alcohol	ND	ND	ND	ND	NA	10
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	13
Tetrachloroethene	ND	ND	ND	ND	NA	2.0
Toluene	ND	ND	ND	ND	NA	2.0
Xylenes	ND	ND	ND	ND	NA	6.0
Surrogate Recoveries (%)						
%SS1:	85	88	85	87		
%SS2:	96	100	97	100		
%SS3:	96	99	97	100		
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

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AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

Lab ID	0712399-005A	0712399-006A	0712399-007A	0712399-008A	Reporting Limit for DF =1	
Client ID	GP-3-5	GP-3-10	GP-4-5	GP-4-10		
Matrix	Air	Air	Air	Air		
Initial Pressure	13.12	12.66	12.59	12.12		
Final Pressure	26.24	25.32	25.14	24.23	S	A
Compound	**Concentration**				ug/kg	nL/L
Benzene	ND	ND	ND	ND	NA	2.0
Ethanol	ND	ND	ND	ND	NA	50
Ethylbenzene	ND	ND	ND	ND	NA	2.0
Isopropyl Alcohol	ND	ND	ND	ND	NA	10
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	13
Tetrachloroethene	ND	ND	ND	ND	NA	2.0
Toluene	ND	ND	ND	ND	NA	2.0
Xylenes	ND	ND	ND	ND	NA	6.0
Surrogate Recoveries (%)						
%SS1:	86	87	86	90		
%SS2:	98	99	100	100		
%SS3:	98	98	99	100		
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

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AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/18/07
	Client P.O.:	Date Analyzed: 12/18/07

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0712399

					Reporting Limit for DF =1	
Lab ID	0712399-009A					
Client ID	GP-4-5-D					
Matrix	Air					
Initial Pressure	12.58					
Final Pressure	25.07				S	A
Compound	**Concentration**				ug/kg	nL/L
Benzene	ND				NA	2.0
Ethanol	ND				NA	50
Ethylbenzene	ND				NA	2.0
Isopropyl Alcohol	ND				NA	10
Methyl-t-butyl ether (MTBE)	ND				NA	13
Tetrachloroethene	ND				NA	2.0
Toluene	ND				NA	2.0
Xylenes	ND				NA	6.0
Surrogate Recoveries (%)						
%SS1:	84					
%SS2:	97					
%SS3:	97					
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) this compound was analyzed by 8260B.

DHS ELAP Certification N° 1644

_____ Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/19/07
	Client P.O.:	Date Analyzed 12/19/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline in µg/m³*

Extraction method: TO3 Analytical methods: TO3 Work Order: 0712399

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	TPH(g)	DF	% SS
001A	GP-1-5	A	11.62	23.19	ND	1	N/A
002A	GP-1-10	A	11.84	23.64	ND	1	N/A
003A	GP-2-5	A	12.41	24.78	ND	1	N/A
004A	GP-2-10	A	11.57	23.11	ND	1	N/A
005A	GP-3-5	A	13.12	26.24	ND	1	N/A
006A	GP-3-10	A	12.66	25.32	ND	1	N/A
007A	GP-4-5	A	12.59	25.14	ND	1	N/A
008A	GP-4-10	A	12.12	24.23	1600	1	N/A
009A	GP-4-5-D	A	12.58	25.07	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A			1500	µg/m³
	S			NA	NA

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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?) g) strongly aged gasoline or diesel range compounds are significant; j) sample diluted due to high organic content; k) this compound's reporting limit does not meet the ESL for residential soil gas; m) no recognizable pattern.j) sample diluted due to high organic content.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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AEI Consultants	Client Project ID: #116907; Vic's	Date Sampled: 12/12/07
2500 Camino Diablo, Ste. #200		Date Received: 12/13/07
Walnut Creek, CA 94597	Client Contact: Ricky Bradford	Date Extracted: 12/19/07
	Client P.O.:	Date Analyzed 12/19/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline in nL/L*

Extraction method: TO3 Analytical methods: TO3 Work Order: 0712399

Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	TPH(g)	DF	% SS
001A	GP-1-5	A	11.62	23.19	ND	1	N/A
002A	GP-1-10	A	11.84	23.64	ND	1	N/A
003A	GP-2-5	A	12.41	24.78	ND	1	N/A
004A	GP-2-10	A	11.57	23.11	ND	1	N/A
005A	GP-3-5	A	13.12	26.24	ND	1	N/A
006A	GP-3-10	A	12.66	25.32	ND	1	N/A
007A	GP-4-5	A	12.59	25.14	ND	1	N/A
008A	GP-4-10	A	12.12	24.23	540	1	N/A
009A	GP-4-5-D	A	12.58	25.07	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A			500	nL/L
	S			NA	NA

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

j) sample diluted due to high organic content.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Air QC Matrix: Air WorkOrder: 0712399

EPA Method: TO15 **Extraction: TO15** **BatchID: 32519** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acrylonitrile	N/A	25	N/A	N/A	N/A	97.9	101	3.23	N/A	N/A	70 - 130	30
tert-Amyl methyl ether (TAME)	N/A	25	N/A	N/A	N/A	100	103	3.09	N/A	N/A	70 - 130	30
Benzene	N/A	25	N/A	N/A	N/A	87.2	90.1	3.25	N/A	N/A	70 - 130	30
Benzyl chloride	N/A	25	N/A	N/A	N/A	105	106	0.808	N/A	N/A	70 - 130	30
Bromodichloromethane	N/A	25	N/A	N/A	N/A	116	120	3.02	N/A	N/A	70 - 130	30
Bromoform	N/A	25	N/A	N/A	N/A	126	128	1.32	N/A	N/A	70 - 130	30
Carbon Disulfide	N/A	25	N/A	N/A	N/A	94.5	96	1.62	N/A	N/A	70 - 130	30
Carbon Tetrachloride	N/A	25	N/A	N/A	N/A	106	110	3.38	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	25	N/A	N/A	N/A	105	104	0.282	N/A	N/A	70 - 130	30
Chloroethane	N/A	25	N/A	N/A	N/A	117	127	7.87	N/A	N/A	70 - 130	30
Chloroform	N/A	25	N/A	N/A	N/A	104	105	1.44	N/A	N/A	70 - 130	30
Chloromethane	N/A	25	N/A	N/A	N/A	86.4	107	21.3	N/A	N/A	70 - 130	30
Dibromochloromethane	N/A	25	N/A	N/A	N/A	127	127	0	N/A	N/A	70 - 130	30
1,2-Dibromo-3-chloropropane	N/A	25	N/A	N/A	N/A	126	129	1.80	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	109	109	0	N/A	N/A	70 - 130	30
1,3-Dichlorobenzene	N/A	25	N/A	N/A	N/A	92.6	92.7	0.0777	N/A	N/A	70 - 130	30
1,4-Dichlorobenzene	N/A	25	N/A	N/A	N/A	125	126	0.825	N/A	N/A	70 - 130	30
Dichlorodifluoromethane	N/A	25	N/A	N/A	N/A	91.1	87.4	4.24	N/A	N/A	70 - 130	30
1,1-Dichloroethane	N/A	25	N/A	N/A	N/A	104	105	1.07	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	99	100	1.39	N/A	N/A	70 - 130	30
cis-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	98.6	99.3	0.697	N/A	N/A	70 - 130	30
trans-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	96.4	98.2	1.89	N/A	N/A	70 - 130	30
1,2-Dichloropropane	N/A	25	N/A	N/A	N/A	99.5	102	2.66	N/A	N/A	70 - 130	30
cis-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	123	123	0	N/A	N/A	70 - 130	30
trans-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	120	120	0	N/A	N/A	70 - 130	30
1,2-Dichloro-1,1,2,2-tetrafluoroethan	N/A	25	N/A	N/A	N/A	97.2	104	6.83	N/A	N/A	70 - 130	30
Diisopropyl ether (DIPE)	N/A	25	N/A	N/A	N/A	103	105	2.17	N/A	N/A	70 - 130	30
1,4-Dioxane	N/A	25	N/A	N/A	N/A	98.4	103	4.51	N/A	N/A	70 - 130	30
Ethyl acetate	N/A	25	N/A	N/A	N/A	101	103	1.96	N/A	N/A	70 - 130	30
Ethyl tert-butyl ether (ETBE)	N/A	25	N/A	N/A	N/A	105	108	2.57	N/A	N/A	70 - 130	30
Ethylbenzene	N/A	25	N/A	N/A	N/A	106	107	1.12	N/A	N/A	70 - 130	30
4-Ethyltoluene	N/A	25	N/A	N/A	N/A	105	100	4.45	N/A	N/A	70 - 130	30

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Air QC Matrix: Air WorkOrder: 0712399

EPA Method: TO15 **Extraction: TO15** **BatchID: 32519** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Freon 113	N/A	25	N/A	N/A	N/A	100	102	1.59	N/A	N/A	70 - 130	30
Hexachlorobutadiene	N/A	25	N/A	N/A	N/A	117	118	0.658	N/A	N/A	70 - 130	30
4-Methyl-2-pentanone (MIBK)	N/A	25	N/A	N/A	N/A	96.6	98.2	1.71	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	101	102	1.30	N/A	N/A	70 - 130	30
Methylene chloride	N/A	25	N/A	N/A	N/A	91	92.6	1.77	N/A	N/A	70 - 130	30
Naphthalene	N/A	25	N/A	N/A	N/A	128	129	0.859	N/A	N/A	70 - 130	30
Styrene	N/A	25	N/A	N/A	N/A	104	104	0	N/A	N/A	70 - 130	30
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	116	118	1.88	N/A	N/A	70 - 130	30
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	97.7	97.9	0.235	N/A	N/A	70 - 130	30
Tetrachloroethene	N/A	25	N/A	N/A	N/A	99.6	101	1.30	N/A	N/A	70 - 130	30
Tetrahydrofuran	N/A	25	N/A	N/A	N/A	95.6	97	1.41	N/A	N/A	70 - 130	30
Toluene	N/A	25	N/A	N/A	N/A	96	96.2	0.142	N/A	N/A	70 - 130	30
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	128	128	0	N/A	N/A	70 - 130	30
1,1,1-Trichloroethane	N/A	25	N/A	N/A	N/A	108	113	4.10	N/A	N/A	70 - 130	30
1,1,2-Trichloroethane	N/A	25	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30
Trichloroethene	N/A	25	N/A	N/A	N/A	98.5	101	2.80	N/A	N/A	70 - 130	30
Trichlorofluoromethane	N/A	25	N/A	N/A	N/A	115	117	1.81	N/A	N/A	70 - 130	30
1,2,4-Trimethylbenzene	N/A	25	N/A	N/A	N/A	92.4	94	1.68	N/A	N/A	70 - 130	30
1,3,5-Trimethylbenzene	N/A	25	N/A	N/A	N/A	98	102	4.42	N/A	N/A	70 - 130	30
Vinyl Chloride	N/A	25	N/A	N/A	N/A	106	127	18.4	N/A	N/A	70 - 130	30
Xylenes	N/A	75	N/A	N/A	N/A	98.7	98.7	0	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	87	91	3.44	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	99	101	2.02	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	100	101	0.896	N/A	N/A	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

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Air QC Matrix: Air WorkOrder: 0712399

EPA Method: TO15 **Extraction: TO15** **BatchID: 32519** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD

BATCH 32519 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712399-001A	12/12/07 1:52 PM	12/13/07	12/18/07 4:56 PM	0712399-002A	12/12/07 11:45 AM	12/13/07	12/18/07 5:37 PM
0712399-003A	12/12/07 10:50 AM	12/13/07	12/18/07 6:18 PM	0712399-004A	12/12/07 11:06 AM	12/13/07	12/18/07 10:59 PM
0712399-005A	12/12/07 1:43 PM	12/13/07	12/18/07 7:05 PM	0712399-006A	12/12/07 1:52 PM	12/13/07	12/18/07 7:52 PM
0712399-007A	12/12/07 12:44 PM	12/13/07	12/18/07 8:40 PM	0712399-008A	12/12/07 12:56 PM	12/13/07	12/18/07 9:26 PM
0712399-009A	12/12/07 12:44 PM	12/13/07	12/18/07 10:11 PM				

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR TO3

W.O. Sample Matrix: Air QC Matrix: Air WorkOrder: 0712399

EPA Method TO3	Extraction TO3				BatchID: 32528			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(g)	N/A	1250	N/A	N/A	N/A	103	103	0	N/A	N/A	70 - 130	20

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

NONE

BATCH 32528 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712399-001A	12/12/07 1:52 PM	12/13/07	12/19/07 3:03 PM	0712399-002A	12/12/07 11:45 AM	12/13/07	12/19/07 3:39 PM
0712399-003A	12/12/07 10:50 AM	12/13/07	12/19/07 4:16 PM	0712399-004A	12/12/07 11:06 AM	12/13/07	12/19/07 4:55 PM
0712399-005A	12/12/07 1:43 PM	12/13/07	12/19/07 5:31 PM	0712399-006A	12/12/07 1:52 PM	12/13/07	12/19/07 6:08 PM
0712399-007A	12/12/07 12:44 PM	12/13/07	12/19/07 6:44 PM	0712399-008A	12/12/07 12:56 PM	12/13/07	12/19/07 7:20 PM
0712399-009A	12/12/07 12:44 PM	12/13/07	12/19/07 8:02 PM				

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.