



AEI Consultants

Environmental & Engineering Services

August 29, 2012

Soil Gas Investigation Workplan

Property Identification:

Vic's Auto
245 8th Street
Oakland, CA 94607

AEI Project No. 116907
ACEH RO#0000202
RWQCB #01-1244

Prepared for:

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

Prepared by:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
(925) 746-6000

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August 29, 2012

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

Subject: Perjury Statement and Report Transmittal
245 8th Street
Oakland, California 94607
AEI Project No. 116907
ACEH RO#0000202

Dear Mr. Wickham:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 832-9014, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,



Victor Lum
Owner
Vic's Automotive

SL/vl

Attachment

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 ABBREVIATED SITE HISTORY	1
3.0 SCOPE OF WORK	2
3.1 Pre-Field Activities.....	3
3.2 Health and Safety	3
3.3 Soil Gas Probe Installation	3
3.4 Sample Collection	4
3.5 Laboratory Analyses.....	4
3.6 Waste Storage and Disposal	4
4.0 REPORTING	5
5.0 SCHEDULE	5
6.0 CLOSING	6

FIGURES

FIGURE 1 SITE LOCATION MAP

FIGURE 2 SITE PLAN WITH PROPOSED SOIL GAS PROBES

FIGURE 3 GROUNDWATER ANALYTICAL DATA SUMMARY (05/04/12)

TABLES

TABLE 1 GROUNDWATER ANALYTICAL DATA SUMMARY

TABLE 2 SOIL GAS ANALYTICAL DATA SUMMARY



August 29, 2012

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Soil Gas Investigation Workplan
245 8th Street
Oakland, California 94607
AEI Project No. 116907

Dear Mr. Wickham:

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this workplan on behalf of Mr. Victor Lum, owner and operator of Vic's Auto automotive repair and former fuel service station located at 245 8th Street in the City of Oakland, Alameda County, California (Figure 1). AEI has been retained by Mr. Lum to provide environmental engineering and consulting services related to the release of gasoline fuel hydrocarbons from the former underground storage tank (UST) and dispensing system on the property. The investigation and remediation of the release is being performed under the direction of the Alameda County Environmental Health (ACEH) local oversight program.

This workplan was requested by the ACEH in a letter dated April 2, 2012. The letter was in response to the AEI's case closure consideration request in the first quarter groundwater monitoring report dated February 24, 2012. Although it was generally agreed that the site could be eligible for a low risk closure, investigation of soil gas conditions relating to the potential for vapor intrusion was required.

2.0 ABBREVIATED SITE HISTORY

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 an automotive repair facility (Figure 2).

A release was discovered in the mid-1990s during the removal of seven underground storage tanks (USTs) from the property. Light non-aqueous phase liquid (LNAPL) was observed on the water table. Since 1995, the site has undergone extensive characterization of soil, groundwater, and soil gas conditions. Following pilot testing, a High Vacuum Dual Phase Extraction (HVDPE) was installed in 2006 and 2007 to extract hydrocarbons from both on and off site wells; the system began operation in June 2007. Additional offsite characterization was performed with the installation of additional monitoring wells in March 2008 (MW-8, MW-9 and

MW-13) and in July 2009 (MW-14, MW-15, and MW-16). Air sparging was added to the HVDPE system in 2010. The system operated through June 2011 since which time post remediation rebound groundwater monitoring has been conducted.

Four (4) soil gas monitoring wells (GP-1 to GP-4) were installed in 2006 with sampling intervals at 5 and 10 feet below ground surface each (*Soil Gas Probe Installation & Sampling Report* dated September 29, 2006). GP-3 and GP-4 (offsite) were decommissioned in 2008 to allow the owner of that property to develop a building. Historical analytical data is summarized in Table 1.

Based on the logs of soil borings advanced on and offsite, the native soils generally consist of fine to medium grained sands with silt and clay present to at least 28 feet bgs, the deepest explored at the site. Typically, silty and clayey fine grained sand have been encountered to depths of 15 to 18 feet bgs. This is underlain by poorly graded, clean to slightly clayey and silty fine to medium sand. Both sand bodies represent a single hydro-geologic system. Sediments have been relatively uniform throughout the investigation area.

Groundwater depths have typically ranged from 14 to 19 feet bgs, corresponding to elevation of approximately 14 to 16 feet above mean sea level (msl). Annual groundwater levels fluctuate by approximately 3 to 4 feet. Groundwater has consistently flowed to the south, southeast, or southwest with a hydraulic gradient of approximately 0.010 ft/ft.

3.0 SCOPE OF WORK

The purpose of soil gas sampling is to assess whether there is a potential for vapor intrusion remaining as a result of residual petroleum hydrocarbons that may be present at and around the site. Soil gas sampling prior to remedial action indicated that there was very little volatile petroleum hydrocarbons present in the vapor phase; this sampling will be performed to investigate a larger area, including where significant gasoline range hydrocarbons or LNAPL were present in the soil or groundwater. Groundwater monitoring analytical data is included in Table 2 and most recent groundwater monitoring data on Figure 3.

The two remaining probes (GP-1-5' and GP-2-5') will be sampled along with five (5) new probes to be installed. Five (5) new probes (GP-5 to GP-9) will be installed in the locations shown on Figure 2. These locations were selected to be in areas where either LNAPL was historically present or within former source areas. Based on the prior soil gas sampling data which did not identify significantly elevated concentrations of volatile gasoline constituents (see Table 1), the proposed probe locations were selected to be in possible worst case areas.

Data will be compared to the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for both residential and commercial/industrial land use as a preliminary screening of the potential for vapor intrusion. Further analysis of the data and/or additional soil gas sampling may be recommended following the screening level data analysis.

3.1 Pre-Field Activities

Prior to initiating field work at the site, drilling activities will be scheduled and Underground Utility Services (USA North) will be notified to locate possible underground utilities in the area. A permit will be obtained from Alameda County Public Works Agency (ACPWA). In addition, each proposed boring location was cleared for underground utilities by a private utility survey company. ACEH will be notified of the probe installation and sampling schedule.

3.2 Health and Safety

AEI will update the site-specific health and safety plan (HASP) prior to mobilizing to the site. Prior to commencing field activities, a site safety meeting will be held at a designated command post near the working area. Emergency procedures will be outlined at this meeting, including an explanation of the hazards of the known or suspected chemicals of interest. All site personnel will be in Level D personal protection equipment, which is the anticipated maximum amount of protection needed. A working area will be established with cones, barricades, and caution tape to delineate the zone where hard hats, safety vests, and steel-toed shoes must be worn, and where unauthorized personnel will not be allowed. A site safety plan conforming to Part 1910.120 (i) (2) of 29 CFR will be on site at all times during the project.

3.3 Soil Gas Probe Installation

AEI will be advanced soil borings (GP-5 through GP-9) at the site and will be completed each of the vapor borings as a soil gas monitoring point. The borings will be advanced with hand auger equipment or an electric rotary hammer drill equipped with 1.25-inch diameter chromoly-steel drill rods. First, a 1.5-inch diameter hole will core through the asphalt. Next, the probe rods will be assembled with solid drive point at the end and driven to a depth of approximately 5 feet bgs. Upon reaching the target depth, the probe rods will be removed and the open borehole will be checked for collapse.

The soil gas probe will be constructed inside the open borehole. The probe will be constructed using an approximately 6-inch long stainless steel vapor implant. 0.25-inch outside diameter nylaflo nylon tubing or stainless steel tubing will be connected to the implant which will be lowered to the bottom of the borehole. First, a layer of clean #30 mesh Monterey sand will be poured into the bottom of the boring around the implant to a depth of 4.5 feet bgs. 0.5 feet of dry granular bentonite will be placed on top of the sand pack to a depth of approximately 4 feet bgs. Hydrated granular bentonite will then be placed in 0.5 foot lifts in the remainder of the borehole to grade. A 0.25-inch Swagelok® plug valve will be installed on the top of each soil gas probe to allow for a shut in test and the tubing will be connected to the laboratory supplied vapor sampling manifold. The probe will be finished at grade with waterproof flush mounted cap.

3.4 Sample Collection

The five foot interval of the two existing soil gas probes (GP-1 to GP-2) and the five newly installed probes (GP-5 through GP-9) will be sampled no less than 2 days after installation of the new probes.

Initially, the probe caps will be removed and the laboratory supplied canister and manifold will be connected to the vapor probes. Prior to collecting the samples, a shut in test will be performed by placing a vacuum on the sampling train above grade with the swage lock at the top of the probe in the closed position. The vacuum will be observed for approximately 1 minute and, if the vacuum had not changed, the above ground sampling train will be considered free of leaks.

Soil gas will then be purged from the probe. Due to the use of Summa canisters, an onsite purge volume test cannot be conducted; therefore approximately 3 purge volumes will be purged prior to collecting the sampling from the probe. The probes will be purged using a syringe or with a dedicated purge canister. Following purging of the sampling lines, a 1 liter Summa canister, which will be connected to the sampling manifold, will open and the initial vacuum will be recorded. Vapor samples will be collected through the regulator at approximately 167 mL/minute. After approximately seven to nine minutes (depending on the down hole vacuum), or -5 in Hg vacuum in the canister, the canister will be closed and removed from the sampling line. Samples will be appropriately labeled and enter onto chain of custody prior to shipping to the laboratory.

A duplicate sample will be collected from one of the probes.

During sampling, a leak check gas, isopropyl alcohol, will be used to confirm that the sample train and probe seal are tight and leak free.

3.5 Laboratory Analyses

The eight (8) soil gas samples will be shipped to McCampbell Analytical, Inc. of Pittsburg, California (DHS Certification #1644) for analysis under chain of custody protocol. The vapor samples were analyzed for BTEX, MBTE, and TPH-gasoline by EPA method TO-15 and for atmospheric gases oxygen (O₂), methane (CH₄), carbon dioxide (CO₂) and nitrogen (N₂) at the laboratory.

3.6 Waste Storage and Disposal

Investigation-derived wastes (IDWs) are expected to be minimal, however any soil cuttings and other debris generated during probe installation and sampling will be temporarily stored in DOT-approved 55-gallon steel drums. The drums will be sealed and labeled and secured on-site pending the results of the analyses and arrangements for off-site disposal. The IDWs will be handled and transported by a certified waste transporter to a waste disposal and/or recycling facility in accordance with all applicable state, location, and federal regulations.

4.0 REPORTING

Upon completion of field work, a technical report will be prepared. The report will include probe construction logs, field data sheets, copies of analytical reports, summary data tables, and figures along with a written description of the procedures and results. The results will be compared to the RWQCB ESLs for both commercial/industrial and residential land use scenarios as a preliminary data screen. Further data analysis or additional sample collection may be recommended, depending on the results and implications for case closure of the fuel leak.

The work and report will be prepared under the direction of a California professional geologist. Upon completion of the report, appropriate files will be uploaded to the GeoTraceker database and paper copies provided, if required.

5.0 SCHEDULE

Permits will be obtained from the ACPWA within 2 to 3 weeks of approval of this workplan. Field work is expected to occur within approximately 1 month. Laboratory analytical results will be obtained approximately 1 week after sample collection. The final report will be prepared and submitted to the client and the ACEH within approximately 1 month of receiving the analytical data and other necessary information.

6.0 CLOSING

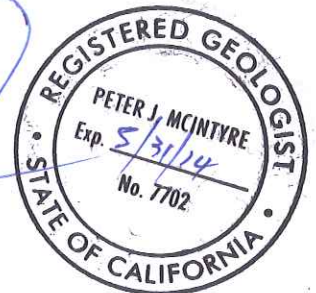
AEI has prepared this workplan on behalf of Vic's Automotive for the property located at 245 8th Street in the City of Oakland, Alameda County, California (Figure 1). AEI has been retained by to provide environmental engineering and consulting services relating to the unauthorized release of petroleum hydrocarbons from the former UST at the subject property. Material samples have been and or are proposed to be collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology that existed at the time and location of the work and performed under the direction of appropriate California registered professionals.

Should you have any questions or comments, or need any additional information, please contact either of the undersigned at (925) 746-6000.

Sincerely,
AEI Consultants


Stephen Lao
Project Engineer


Peter McIntyre, PG
Sr. Vice President



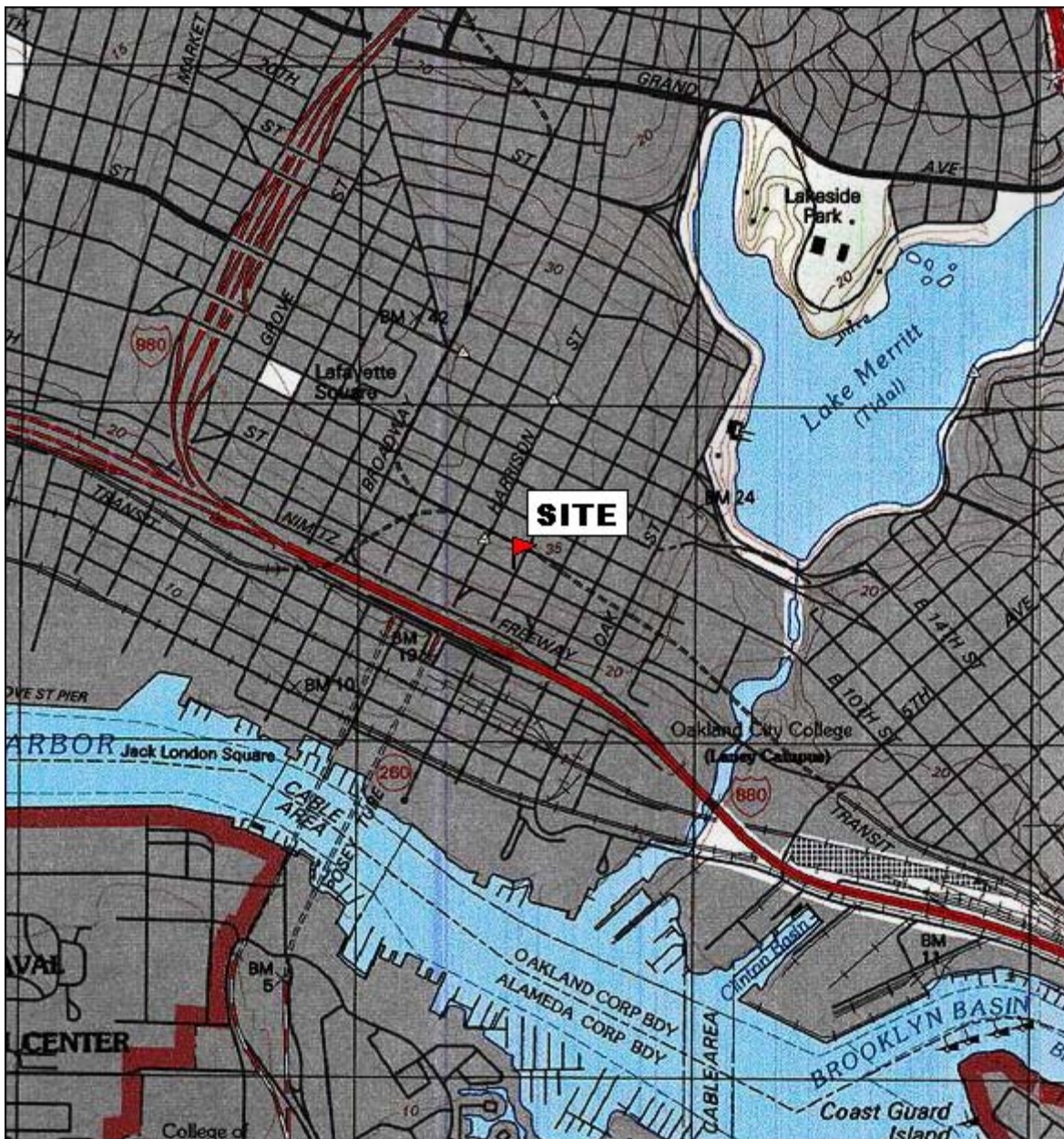
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Mr. Victor Lum
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Oakland, California 94607

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Alameda, California 94502-6577

GeoTracker (electronic)

FIGURES



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15 1/4°



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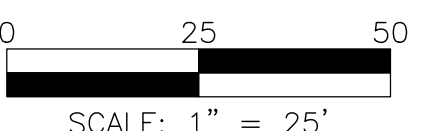
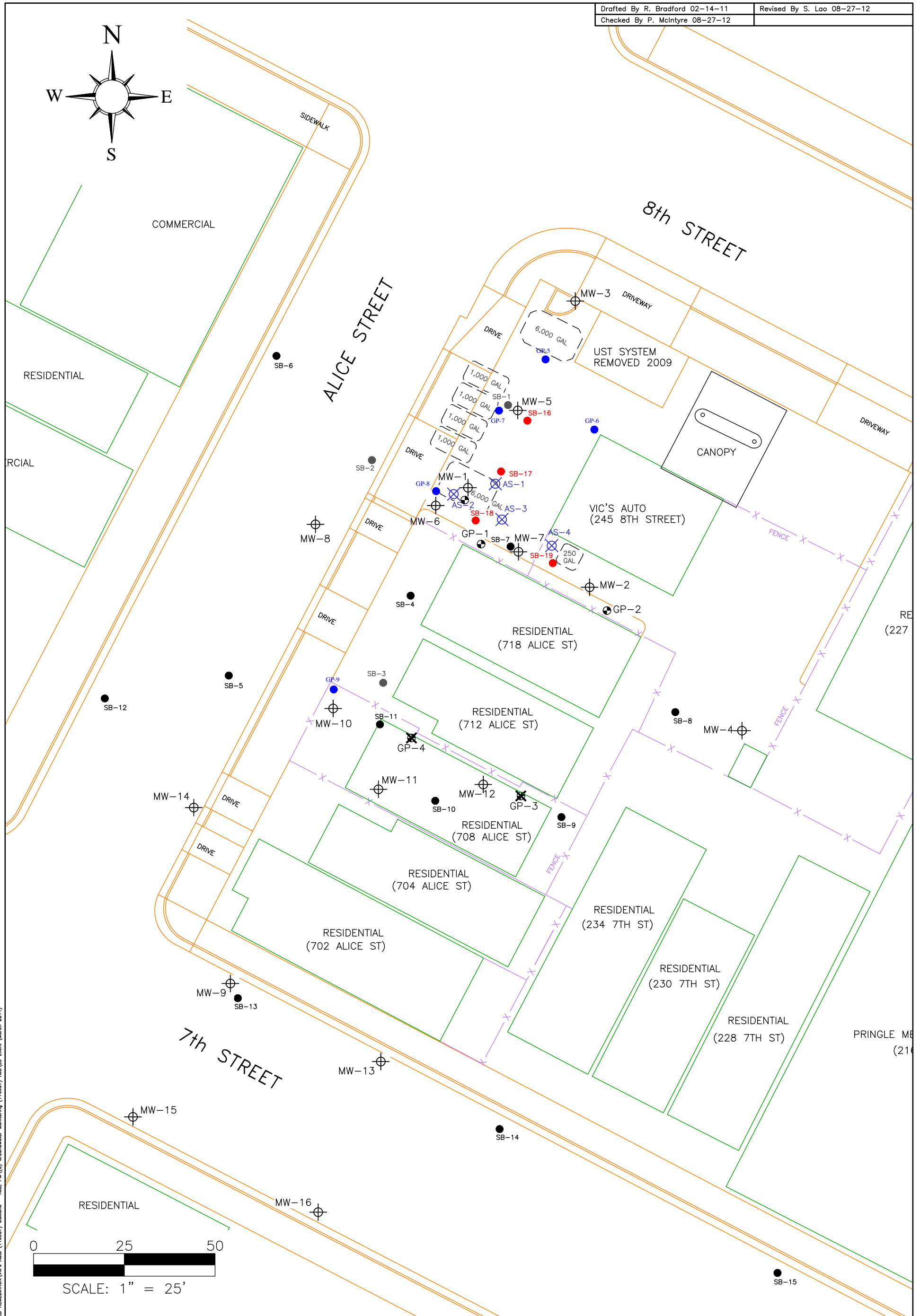
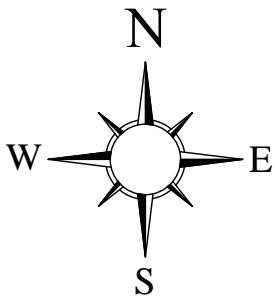
AEI CONSULTANTS

2500 CAMINO DIABLO BLVD, SUITE 200, WALNUT CREEK, CA

SITE LOCATION MAP

245 8th STREET
OAKLAND, CALIFORNIA

FIGURE 1
PROJECT No. 116907



X:\PROJECTS\CHARACTERIZATION & REMEDIATION\ADVANCED REMEDIATION\Vic's Auto (116907) Oakland - RJB, PM\G) Groundwater Monitoring (116907) RJB\39 E\mnt (March 2011)

LEGEND

- MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- SOIL GAS PROBE
- ABANDONED SOIL GAS PROBE
- SOIL BORING (2010)
- AIR SPARGE WELL (2010)
- PROPOSED GAS PROBE (2012)

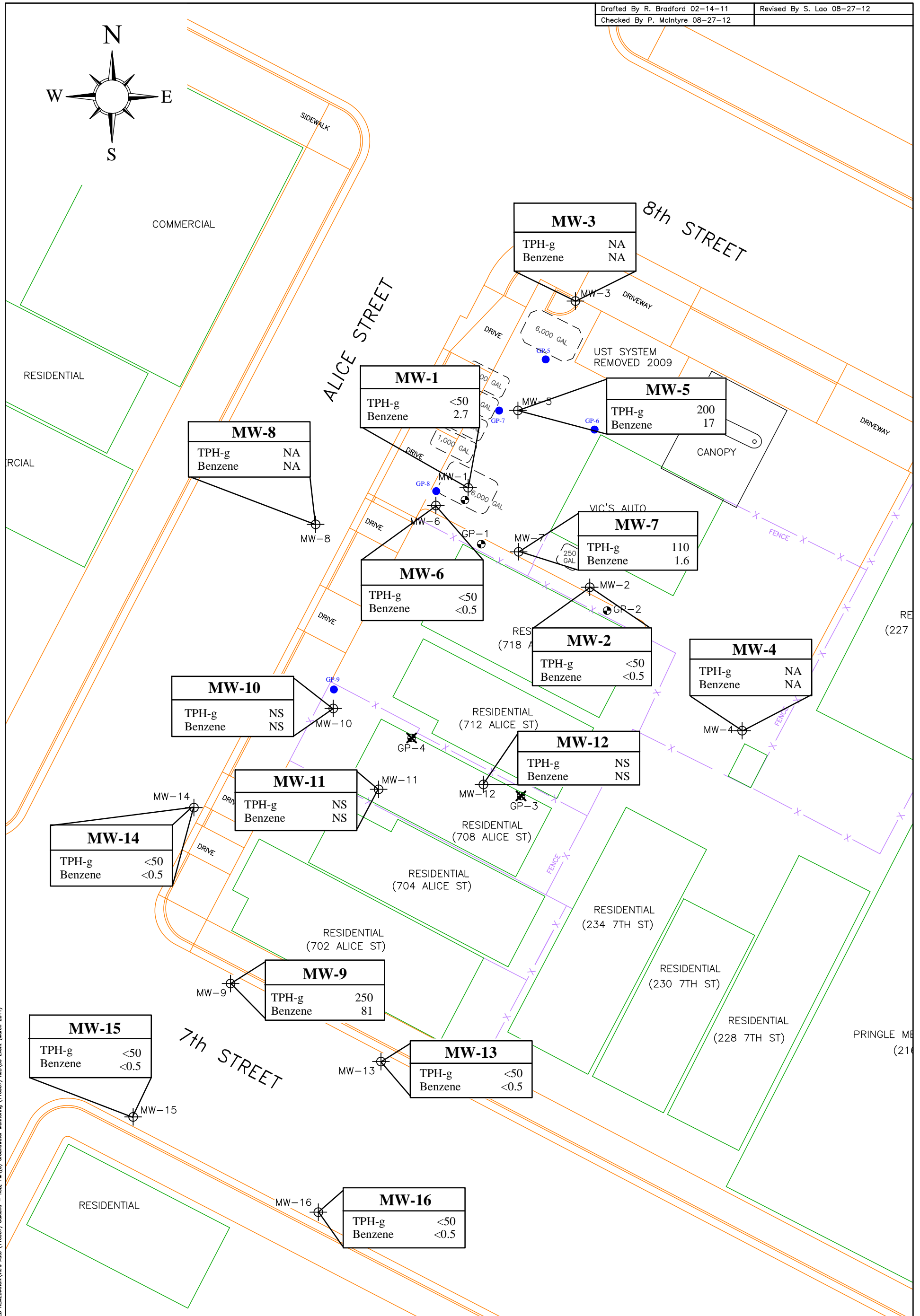
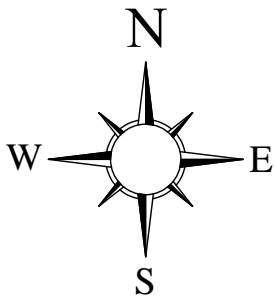


AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK, CALIFORNIA

SITE PLAN WITH PROPOSED SOIL GAS PROBES

245 8TH STREET
 OAKLAND, CALIFORNIA

FIGURE 2
 PROJECT NO. 116907



X:\PROJECTS\CHARACTERIZATION & REMEDIATION\ADVANCED REMEDIATION\Vic's Auto (116907) Oakland - RJB, PM\G\Groundwater Monitoring (116907) RJB\39 E\wnt (March 2011)

LEGEND

TPH-g = Total Petroleum Hydrocarbons as gasoline
 MTBE = Methyl tertiary-butyl ether
 NS = Not sampled / buried under a new building
 ND = Not detected at or above the reporting limit
 All groundwater sample analytical data in micrograms per liter (ug/L) or ppb
 *MTBE by EPA Method SW8260B

- MONITORING WELL
- SOIL GAS PROBE
- ABANDONED SOIL GAS PROBE
- PROPOSED GAS PROBE (2012)

FORMER UST LOCATION

AEI CONSULTANTS
 2500 CAMINO DIABLO, WALNUT CREEK, CALIFORNIA

GROUNDWATER ANALYTICAL DATA SUMMARY (05/04/12)

245 8TH STREET
 OAKLAND, CALIFORNIA

FIGURE 3
 PROJECT NO. 116907

TABLES

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)	
MW-1 (8-28)	06/29/01	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	10/10/01	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	01/09/02	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	04/24/02	<0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	07/24/02	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	11/05/02	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	02/04/03	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	05/02/03	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	08/04/03	0.23	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	11/03/03	1.27	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	02/09/04	0.18	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-	
	05/10/04	Obstructed	-	-	-	-	-	-	-	
	08/09/04	0.21	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/04	0.24	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/03/05	0.17	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/09/05	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/05/05	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	0.02	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/08/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/08/07	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/29/07	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	Sheen	47,000	<500	4,200	11,000	1,100	6,400	-	
	12/12/07	Sheen	80,000	<250	630	22,000	1,700	8,900	-	
	02/13/08	Sheen	22,000	<250	750	4,100	340	3,200	-	
	05/15/08	0.00	25,000	<600	580	9,200	970	4,200	-	
	08/05/08	0.00	110,000	<1,000	730	22,000	1,700	8,200	-	
	11/07/08	0.00	15,000	290	460	1,400	84	2,700	-	
	02/05/09	0.00	42,000	<1,000	1,100	8,500	880	4,500	-	
	05/05/09	0.00	44,000	<50*	1,300	6,500	1,300	6,800	-	
	08/21/09	0.00	63,000	<50*	1,900	15,000	1,200	7,600	-	
11/23/09	0.00	63,000	<17*	3,300	9,800	1,500	8,200	-		
02/26/10	0.00	62,000	<25*	3,500	14,000	1,600	9,300	-		
05/12/10	0.00	13,000	<5.0*	270	2,000	330	1,900	-		
Traditional	08/19/10	0.00	45,000	<25*	960	9,900	1,100	5,300	-	
Low-Flow	08/19/10	0.00	4,100	<110	520	540	190	290	-	
Low-Flow	12/22/10	0.00	12,000	<250	440	1,300	270	2,300	-	
Low-Flow	03/24/11	0.00	230	<5.0	<0.5	<0.5	<0.5	8.7	-	
Low-Flow	05/26/11	0.00	390	<5.0	4.6	5.2	15	97	-	
Low-Flow	08/22/11	0.00	890	<10	24	8.8	34	73	-	
Low-Flow	11/08/11	0.00	260	<5.0	21	2.9	16	9.4	-	
Low-Flow	02/03/12	0.00	220	<5.0	17	1.2	16	1.0	-	
Low-Flow	05/04/12	0.00	<50	<5.0	2.7	<0.5	<0.5	<0.5	-	

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-2 (8-28)	06/29/01	0.00	69,000	4,100/4,400*	7,200	6,100	1,500	7,000	-
	10/10/01	0.00	87,000	14,000	22,000	12,000	2,700	9,100	-
	01/09/02	0.00	130,000	11,000	30,000	19,000	3,800	14,000	-
	04/24/02	Sheen	210,000	32,000	38,000	23,000	4,600	19,000	-
	07/24/02	Sheen	170,000	36,000	48,000	12,000	3,700	8,600	-
	11/05/02	Sheen	190,000	36,000	45,000	25,000	4,600	16,000	-
	02/04/03	Sheen	150,000	27,000	51,000	24,000	4,200	14,000	-
	05/02/03	Sheen	150,000	35,000	39,000	11,000	3,800	9,900	-
	08/04/03	Sheen	120,000	29,000	32,000	5,000	3,200	7,200	-
	11/03/03	Sheen	120,000	24,000	33,000	4,300	3,200	5,400	-
	02/09/04	Sheen	130,000	19,000	27,000	7,700	3,100	7,600	-
	05/10/04	Sheen	67,000	13,000	20,000	3,000	2,300	4,100	-
	08/09/04	Sheen	100,000	22,000	27,000	7,100	2,800	6,600	-
	11/09/04	Sheen	100,000	23,000	27,000	6,100	3,000	5,600	-
	02/03/05	Sheen	84,000	11,000	23,000	5,000	3,000	5,500	-
	05/09/05	Sheen	74,000	14,000	21,000	4,200	2,300	3,300	-
	07/27/05	Sheen	9,500	910	1,400	1,000	180	960	-
	08/05/05	Sheen	74,000	4,000	8,800	11,000	1,300	7,600	-
	11/09/05	Sheen	120,000	16,000	21,000	14,000	2,300	13,000	-
	02/09/06	Sheen	120,000	10,000	18,000	16,000	2,200	13,000	-
	05/04/06	Sheen	71,000	8,300	14,000	11,000	1,500	7,600	-
	08/04/06	Sheen	160,000	14,000	22,000	14,000	2,400	11,000	-
	11/08/06	Sheen	110,000	6,400	17,000	9,200	1,600	6,800	<DL
	02/08/07 ¹	Sheen	68,000	5,400	11,000	7,800	1,500	7,700	-
	05/29/07	Sheen	49,000	4,800	7,600	4,400	940	4,600	-
	09/05/07	Sheen	25,000	1,000	3,300	3,400	490	2,800	-
	12/12/07	0.00	5,500	870	1,100	440	28	550	-
	02/13/08	0.00	5,700	250	440	290	43	1,000	-
	05/15/08	0.00	490	68	110	11	0.90	42	-
	08/05/08	0.00	520	<25	26	57	7.6	70	-
	11/07/08	0.00	680	72	110	38	3.1	75	-
	02/05/09	0.00	1,000	82	130	50	15	120	-
	05/05/09	0.00	570	8.6*	22	33	9.2	73	-
08/21/09	0.00	660	<10	13	41	13	48	-	
11/23/09	0.00	400	23*	20	10	1.0	33	-	
02/26/10	0.00	1,400	17*	56	83	18	230	-	
05/12/10	0.00	350	88	63	7.0	3.0	18	-	
Traditional	08/19/10	0.00	260	<10	4.6	1.1	0.93	3.4	-
Low-Flow	08/19/10	0.00	580	<15	18	4.4	4.4	25	-
Low-Flow	12/22/10	0.00	1,700	130	230	140	33	290	-
Low-Flow	03/24/11	0.00	65	81	<0.5	<0.5	<0.5	1.1	-
Low-Flow	05/26/11	0.00	140	51	<0.5	<0.5	<0.5	1.9	-
Low-Flow	08/22/11	0.00	1,500	<50	69	33	10	220	-
Low-Flow	11/08/11	0.00	410	<5.0	18	4.8	5.3	83	-
Low-Flow	02/03/12	0.00	170	<5.0	3.1	1.7	1.5	6.2	-
Low-Flow	05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-3 (10-25)	06/29/01	0.00	550	<5.0	<0.5	3.1	3.2	1.2	-
	10/10/01	0.00	470	<5.0	0.77	5.3	3.3	5.9	-
	01/09/02	0.00	1,000	<5.0	0.90	7.6	7.8	25	-
	04/24/02	0.00	1,500	<5.0	0.64	7.2	12	14	-
	07/24/02	0.00	1,200	<5.0	10	17.0	11	25	-
	11/05/02	0.00	1,800	<25	33	43.0	18	31	-
	02/04/03	0.00	450	<5.0	<0.5	5.0	<0.5	0.77	-
	05/02/03	0.00	340	<5.0	7.3	10.0	2.5	7.3	-
	08/04/03	0.00	170	<5.0	5.8	5.9	1.5	4.9	-
	11/03/03	0.00	54	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/09/04	0.00	190	<5.0	<0.5	3.6	<0.5	<0.5	-
	05/10/04	0.00	280	<5.0	<0.5	3.4	<0.5	<0.5	-
	08/09/04	0.00	290	<5.0	<0.5	3.8	<0.5	<0.5	-
	11/09/04	0.00	220	<5.0	<0.5	4.0	<0.5	<0.5	-
	02/03/05	0.00	160	<5.0	13	30	3	21	-
	05/09/05	0.00	200	<5.0	<0.5	3.9	<0.5	<0.5	-
	08/05/05	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/09/05	0.00	130	<5.0	<0.5	2.3	<0.5	<0.5	-
	02/09/06	0.00	270	<5.0	<0.5	5.6	<0.5	<0.5	-
	05/04/06	0.00	220	<5.0	<0.5	4.3	<0.5	<0.5	-
	08/04/06	0.00	93	<5.0	<0.5	1.5	<0.5	<0.5	-
	11/08/06	0.00	160	<5.0	<0.5	2.9	<0.5	<0.5	<DL
	02/08/07 ¹	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/29/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	09/05/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/13/08	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/15/08	0.00	<50	<5.0	<0.5	0.99	<0.5	<0.5	0.68
08/05/08	0.00	91	<5.0	<0.5	2.0	8.0	1.3	8.0	
11/07/08	0.00	150	<5.0	<0.5	0.70	6.5	1.3	26	
02/05/09	0.00	<50	<5.0	<0.5	1.7	<0.5	<0.5	<0.5	
05/05/09	0.00	<50	<5.0	<0.5	<0.5	0.76	<0.5	<0.5	
08/21/09	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	<0.5	
11/23/09	0.00	<50	<5.0	<0.5	0.90	<0.5	0.59	1.2	
02/26/10	-	-	-	-	-	-	-	-	
05/12/10	-	-	-	-	-	-	-	-	
08/19/10	-	-	-	-	-	-	-	-	
Low-Flow	12/22/10	0.00	<50	<5.0	<0.5	<0.5	<0.5	1.7	-
	03/24/11	-	-	-	-	-	-	-	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-4 (10-25)	06/29/01	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	10/10/01	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	01/09/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	04/24/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	07/24/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	11/05/02	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/04/03	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/02/03	0.00	500	10	68	71	18	65	-
	08/04/03	0.00	270	<5.0	30	29	9.2	32	-
	11/03/03	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/09/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/10/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	08/09/04	0.00	130	<5.0	14	13	5.3	17	-
	11/09/04	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	02/03/05	0.00	370	<5.0	<0.5	4.1	<0.5	0.64	-
	05/09/05	0.00	840	<5.0	50	180	21	110	-
	07/27/05	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	08/05/05	0.00	310	<5.0	7.5	57	10	53	-
	11/09/05	0.00	290	<5.0	12	61	8.8	49	-
	02/09/06	0.00	250	<5.0	9.9	42	7.5	45	-
	05/04/06	0.00	300	<5.0	37	76	7.8	42	-
	08/04/06	0.00	270	<5.0	7.3	33	5.6	32	-
	11/08/06	0.00	1,300	<5.0	75	230	31	160	<DL
	02/08/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/29/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	09/05/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	12/12/07	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
02/13/08	0.00	75	<5.0	2.4	8.3	1.2	14	-	
05/15/08	0.00	<50	<5.0	0.65	<0.5	<0.5	0.52	-	
08/05/08	0.00	76	<5.0	1.2	8.1	1.5	9.7	-	
11/07/08	0.00	100	<5.0	2.8	7.7	1.1	15	-	
02/05/09	0.00	140	<5.0	0.87	19	3.9	29	-	
05/05/09	0.00	85	<5.0	1.2	8.0	2.5	19	-	
08/21/09	0.00	390	<5.0	14	58	11	73	-	
11/23/09	0.00	<50	<5.0	2.6	<0.5	1.5	2.3	-	
02/26/10	-	-	-	-	-	-	-	-	
05/12/10	-	-	-	-	-	-	-	-	
08/19/10	-	-	-	-	-	-	-	-	
Low-Flow	12/22/10	0.00	<50	<5.0	<0.5	<0.5	<0.5	1.2	-
	03/24/11	-	-	-	-	-	-	-	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-5 (12-22)	02/03/05	0.00	78,000	<1,000	7,600	13,000	2,200	9,600	-
	05/09/05	0.00	60,000	<900	6,100	9,900	1,600	6,600	-
	07/27/05	nm	120,000	1,100	10,000	19,000	2,100	13,000	-
	08/05/05	0.00	59,000	<500	4,100	10,000	1,200	6,600	-
	11/09/05	0.00	44,000	<500	3,300	7,400	1,100	4,900	-
	02/09/06	0.00	110,000	<500	10,000	22,000	2,400	13,000	-
	05/04/06	0.00	110,000	<250	11,000	22,000	2,900	15,000	-
	08/04/06	0.00	73,000	<500	4,700	8,600	1,700	7,600	-
	11/08/06	0.00	51,000	<500	3,700	7,200	1,400	6,700	<DL
	02/08/07	0.00	67,000	<800	5,100	10,000	1,800	10,000	-
	05/29/07	0.00	86,000	<1000	6,200	12,000	2,000	11,000	-
	09/05/07	0.00	36,000	<350	2,100	4,000	560	4,600	-
	12/12/07	0.00	8,200	<100	160	56	290	1,200	-
	02/13/08	0.00	4,600	<50	77	440	41	1,300	-
	05/15/08	0.00	3,000	<10	59	330	47	670	-
	08/05/08	0.00	4,500	<50	64	490	46	1,100	-
	11/07/08	0.00	5,000	<17	66	400	29	1,200	-
	02/05/09	0.00	2,800	<0.5*	49	120	22	570	-
	05/05/09	0.00	12,000	<5.0*	360	1,300	250	2,000	-
	08/21/09	0.00	11,000	<1.0*	450	610	400	2,300	-
	11/23/09	0.00	1,700	<0.5*	47	100	29	240	-
	02/26/10	0.00	3,100	<1.0*	55	220	27	520	-
	05/12/10	0.00	1,300	<5.0	55	190	13	180	-
Traditional	08/19/10	0.00	3,600	<75	140	50	130	370	-
Low-Flow	08/19/10	0.00	3,600	<25	180	180	170	550	-
Low-Flow^	08/19/10	0.00	5,400	<25	210	230	230	660	-
Low-Flow	12/22/10	0.00	9,000	<100	300	1,100	180	1,700	-
Low-Flow	03/24/11	0.00	4,500	<50	120	600	12	900	-
Low-Flow	05/26/11	0.00	830	<10	33	27	16	170	-
Low-Flow	08/22/11	0.00	2,700	<50	120	130	70	490	-
Low-Flow	11/08/11	0.00	940	<25	91	36	33	230	-
Low-Flow	02/03/12	0.00	1,400	<25	100	6.7	91	35	-
	05/04/12	0.00	200	<5.0	17	0.98	12	2.6	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-6 (12-22)	02/03/05	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000	-
	05/09/05	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000	-
	08/05/05	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.71	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.75	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	0.41	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/08/06	0.38	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/08/07	0.34	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/29/07	0.31	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	0.00	74,000	<750	870	7,000	2,400	12,000	-
	12/12/07	Sheen	12,000	<10	556	560	550	1,800	-
	02/13/08	Sheen	27,000	<250	700	4,900	620	5,300	<DL
	05/15/08	0.00	25,000	<150	410	2,500	1,000	3,700	-
	08/05/08	0.00	33,000	<350	480	5,500	1,400	6,800	-
	11/07/08 ²	0.00	54,000	<5.0	610	7,000	1,700	8,900	-
	02/05/09	0.00	92,000	<50*	1,100	8,600	2,800	14,000	-
	05/05/09	0.00	58,000	<50*	560	4,300	2,400	13,000	-
	08/21/09	0.00	53,000	<5.0*	1,800	8,100	1,200	12,000	-
	11/23/09	0.00	28,000	<10*	270	710	1,200	5,500	-
02/26/10	0.00	21,000	<10*	84	<5.0	800	3,900	-	
05/12/10	0.00	19,000	<12*	350	1,100	1,000	3,300	-	
Traditional	08/20/10	0.00	64,000	<50*	2,000	12,000	1,600	8,300	-
Low-Flow	08/20/10	0.00	1,900	<5.0	13	98	62	350	-
Low-Flow	12/22/10	0.00	21,000	<100	180	1,300	520	4,900	-
Low-Flow	03/24/11	0.00	6,500	<90	74	510	220	1,700	-
Low-Flow	05/26/11	0.00	4,400	<50	52	400	200	1,300	-
Low-Flow	08/22/11	0.00	4,100	<50	13	150	120	820	-
Low-Flow	11/08/11	0.00	3,800	<25	9.3	78	150	840	-
Low-Flow	02/03/12	0.00	600	<15	2.5	3.1	2.7	21	-
	05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-7 (12-22)	02/03/05	Sheen	220,000	18,000	45,000	44,000	3,500	18,000	-
	05/09/05	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/05/05	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	11/09/05	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	02/09/06	0.07	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	05/04/06	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	08/04/06	Sheen	230,000	19,000	37,000	37,000	3,100	14,000	-
	11/08/06	Sheen	240,000	13,000	41,000	39,000	3,000	14,000	<DL
	02/08/07	Sheen	230,000	15,000	41,000	37,000	3,700	20,000	-
	05/29/07	Sheen	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	-
	09/05/07	Sheen	14,000	<450	41	210	99	1,600	-
	12/12/07	Sheen	9,200	<500	1,100	870	66	1,100	-
	02/13/08	0.00	17,000	590	2,800	2,700	300	1,900	-
	05/15/08	0.00	10,000	230	1,700	1,900	200	950	-
	08/05/08	0.00	6,100	<150	1,100	1,100	120	740	-
	11/07/08	0.00	4,200	<50	580	570	44	400	-
	02/05/09	0.00	7,800	26*	1,100	810	190	690	-
	05/05/09	0.00	7,200	77*	1,200	1,200	150	860	-
	08/21/09	0.00	28,000	390*	6,200	3,200	450	3,100	-
	11/23/09	0.00	17,000	32*	430	1,600	730	2,800	-
02/26/10	0.00	21,000	29*	1,500	1,500	870	3,300	-	
05/12/10	0.00	18,000	51*	1,300	2,700	540	3,100	-	
Traditional	08/19/10	0.00	11,000	<300	2,100	590	270	2,000	-
Low-Flow	08/19/10	0.00	24,000	<500	3,700	2,200	510	4,800	-
Low-Flow^	08/19/10	0.00	23,000	<300	3,300	2,000	520	3,900	-
Low-Flow	12/22/10	0.00	16,000	<200	1,600	1,700	250	2,800	-
Low-Flow	03/24/11	0.00	110	18	<0.5	<0.5	0.57	<0.5	-
Low-Flow	05/26/11	0.00	460	<10	25	6.8	4.9	93	-
Low-Flow	08/22/11	0.00	1,500	<10	47	28	12	210	-
Low-Flow	11/08/11	0.00	1,200	<10	55	10	19	180	-
Low-Flow	02/03/12	0.00	710	<5.0	19	4.0	19	43	-
	05/04/12	0.00	110	<5.0	1.6	0.88	1.7	11	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)	
MW-8 (12-22)	05/15/08	0.00	90	<5.0	0.62	2.4	<0.5	1.0	-	
	08/05/08	0.00	81	<5.0	0.66	7.2	1.2	9.1	-	
	11/07/08	0.00	430	<5.0	2.9	26	6.1	86	-	
	02/05/09	0.00	<50	<5.0	0.98	1.3	<0.5	<0.5	-	
	05/05/09	0.00	94	<5.0	0.91	7.1	2.2	17	-	
	08/21/09	0.00	480	<5.0	30	100	17	130	-	
	11/23/09	0.00	62	<5.0	5.3	2.0	2.4	3.3	-	
	02/26/10	-	-	-	-	-	-	-	-	
	05/12/10	-	-	-	-	-	-	-	-	
	08/19/10	-	-	-	-	-	-	-	-	
	Low-Flow	12/22/10	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
		03/24/11	-	-	-	-	-	-	-	-
	MW-9 (12-22)	05/15/08	0.00	60,000	960	14,000	410	1,500	3,500	-
08/05/08		0.00	42,000	<1,200	13,000	400	1,800	4,800	-	
11/07/08 ²		0.00	53,000	400	13,000	350	1,800	3,100	-	
02/05/09		0.00	32,000	360*	11,000	310	1,600	2,700	-	
05/05/09		0.00	44,000	730*	14,000	520	1,900	3,400	-	
08/21/09		0.00	48,000	900*	15,000	550	2,000	3,300	-	
11/23/09		0.00	39,000	750	11,000	390	1,800	2,400	-	
02/26/10		0.00	44,000	760*	12,000	360	1,900	3,800	-	
05/12/10		0.00	34,000	390*	6,800	320	1,700	3,600	-	
Traditional		08/19/10	0.00	35,000	<1,200	9,600	220	2,300	3,600	-
Low-Flow		08/19/10	0.00	30,000	<1,200	8,400	140	1,800	2,800	-
Low-Flow		12/22/10	0.00	15,000	<300	3,600	47	870	730	-
Low-Flow		03/24/11	0.00	2,100	<90	850	5.0	100	7.3	-
Low-Flow		05/26/11	0.00	4,100	<250	1,700	11	120	9.9	-
Low-Flow		08/22/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
Low-Flow		11/08/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
Low-Flow		02/03/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	05/04/12	0.00	250	<15	81	<0.5	1.1	<0.5	-	

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-10 (12-22)	02/03/05	0.00	36,000	<500	4,700	7,200	660	3,400	-
	05/09/05	0.00	88,000	<1,500	6,900	20,000	2,300	9,900	-
	08/05/05	0.00	88,000	<1,100	10,000	21,000	1,900	9,800	-
	11/09/05	0.00	63,000	<1,100	5,400	13,000	1,900	7,900	-
	02/09/06	0.00	100,000	<500	6,600	19,000	2,900	13,000	-
	05/04/06	0.00	100,000	<500	8,500	25,000	3,000	13,000	-
	08/04/06	0.00	190,000	<2,200	17,000	35,000	2,800	13,000	-
	11/08/06	0.00	57,000	<500	2,500	7,600	1,600	5,700	<DL
	02/08/07	0.00	69,000	<1,000	4,400	14,000	2,200	8,800	-
	05/29/07	0.00	100,000	<1,000	5,300	19,000	2,600	12,000	-
	09/05/07	0.00	87,000	<1,000	6,100	20,000	2,400	12,000	-
	12/12/07	Sheen	4,700	<50	95	280	110	730	-
	02/13/08	0.00	4,500	<250	190	370	65	880	-
	05/15/08	0.00	4,800	<50	130	320	110	710	-
	08/05/08	0.00	3,500	<120	230	180	74	190	-
11/07/08 ³	Well now located beneath a new residential building. Impossible to sample.								-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-11 (12-22)	02/03/05	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000	-
	05/09/05	Sheen	210,000	3,500	29,000	40,000	3,400	16,000	-
	07/27/05	Sheen	220,000	2,500	26,000	37,000	3,200	18,000	-
	08/05/05	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000	-
	11/09/05	Sheen	180,000	9,100	32,000	47,000	3,600	18,000	-
	02/09/06	Sheen	210,000	10,000	33,000	39,000	3,800	20,000	-
	05/04/06	Sheen	190,000	12,000	34,000	41,000	3,500	17,000	-
	08/04/06	Sheen	290,000	11,000	33,000	43,000	3,300	15,000	-
	11/08/06	0.00	240,000	14,000	34,000	44,000	3,300	16,000	<DL
	02/08/07	0.00	230,000	19,000	43,000	44,000	3,900	20,000	-
	05/29/07	0.00	230,000	19,000	35,000	39,000	3,600	20,000	-
	09/05/07	0.00	200,000	19,000	34,000	36,000	3,700	23,000	-
	12/12/07	0.00	81,000	4,000	9,400	9,500	1,700	9,700	-
	02/13/08	0.00	36,000	4,200	5,700	4,000	560	5,300	-
	05/15/08	0.00	15,000	2,300	2,800	1,400	120	1,900	-
08/05/08	0.00	12,000	1,100	1,800	760	98	630	-	
11/07/08 ³	Well now located beneath a new residential building. Impossible to sample.								-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-12 (12-22)	02/03/05	Sheen	250,000	100,000	52,000	41,000	3,400	15,000	-
	05/09/05	Sheen	210,000	91,000	44,000	28,000	3,300	13,000	-
	08/05/05	Sheen	170,000	52,000	38,000	28,000	3,000	12,000	-
	11/09/05	Sheen	180,000	52,000	39,000	25,000	2,900	12,000	-
	02/09/06	Sheen	170,000	34,000	40,000	23,000	3,500	15,000	-
	05/04/06	Sheen	160,000	47,000	33,000	28,000	2,800	10,000	-
	08/04/06	Sheen	240,000	55,000	40,000	24,000	3,200	12,000	-
	11/08/06	0.00	190,000	33,000	40,000	23,000	2,700	13,000	<DL
	02/08/07	0.00	150,000	34,000	38,000	19,000	3,300	12,000	-
	05/29/07	0.00	150,000	30,000	30,000	15,000	3,100	13,000	-
	09/05/07	0.00	160,000	38,000	33,000	21,000	3,200	14,000	-
	12/12/07	0.00	58,000	6,700	10,000	7,100	1,200	4,900	-
	02/13/08	0.00	17,000	3,000	3,600	2,300	440	1,800	-
	05/15/08	0.00	7,800	1,900	2,000	500	130	640	-
	08/05/08	0.00	3,900	800	730	130	61	200	-
11/07/08 ³	Well now located beneath a new residential building. Impossible to sample.								-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)	
MW-13 (12-22)	05/15/08	0.00	<250	6,700	18	<2.5	<2.5	<2.5	-	
	08/05/08	0.00	<250	3,400	<2.5	5.7	<2.5	4.3	-	
	11/07/08	0.00	61	380	2.8	1.4	0.55	0.87	-	
	02/05/09	0.00	<50	14	<0.5	<0.5	<0.5	<0.5	-	
	05/05/09	0.00	<50	<5.0	0.53	3.2	1.1	7.5	-	
	08/21/09	0.00	85	<5.0	2.0	10	2.2	13	-	
	11/23/09	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-	
	02/26/10	0.00	500	<5.0	9.8	58	20	110	-	
	05/12/10	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-	
	08/19/10	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-	
	Low-Flow	12/22/10	0.00	<50	<5.0	1.1	<0.5	<0.5	0.63	-
	Low-Flow	03/24/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	05/26/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	08/22/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	11/08/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	02/03/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
		05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
MW-14 (12 - 22)	08/21/09	0.00	3,000	<1.0*	11	41	92	40	-	
	11/23/09	0.00	1,600	<5.0	6.1	16	33	4.9	-	
	02/26/10	0.00	1,800	<5.0	4.7	24	18	11	-	
	05/12/10	0.00	970	16	0.63	14	5.3	0.57	-	
	08/19/10	0.00	890	<30	1.3	16	2.6	1.3	-	
	Low-Flow	12/22/10	0.00	290	<5.0	<0.5	7.6	<0.5	0.52	-
	Low-Flow	03/24/11	0.00	93	<5.0	<0.5	1.8	<0.5	<0.5	-
	Low-Flow	05/26/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	08/22/11	0.00	140	<5.0	<0.5	5.7	<0.5	<0.5	-
	Low-Flow	11/08/11	0.00	350	<5.0	<0.5	13	<0.5	<0.5	-
	Low-Flow	02/03/12	0.00	200	<5.0	<0.5	7.0	<0.5	<0.5	-
		05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
MW-15 (12 - 22)	08/21/09	0.00	190	23	23	15	6.6	25	-	
	11/23/09	0.00	280	19	65	4.6	20	28	-	
	02/26/10	0.00	96	27	9.9	3.7	3.1	9.2	-	
	05/12/10	0.00	<50	20	<0.5	<0.5	<0.5	<0.5	-	
	08/19/10	0.00	<50	33	<0.5	<0.5	<0.5	<0.5	-	
	Low-Flow	12/22/10	0.00	<50	12	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	03/24/11	0.00	<50	6.2	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	05/26/11	0.00	<50	7.3	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	08/22/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	11/08/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow	02/03/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
		05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-

TABLE 1: GROUNDWATER ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID (screen interval)	Date Collected	Apparent LNAPL Thickness (ft)	TPH-g (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes (µg/L)	HVOC (µg/L)
MW-16 (12 - 22)	08/21/09	0.00	860	20	80	110	26	130	-
	11/23/09	0.00	870	31	280	13	46	63	-
	02/26/10	0.00	240	21	46	28	16	59	-
	05/12/10	0.00	<50	15	2.3	0.62	<0.5	0.79	-
	08/19/10	0.00	<50	15	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow 12/22/10	0.00	<50	10	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow 03/24/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow 05/26/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow 08/22/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
	Low-Flow 11/08/11	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-
Low-Flow 02/03/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-	
	05/04/12	0.00	<50	<5.0	<0.5	<0.5	<0.5	<0.5	-

NOTES:

- not sampled/analyzed

ft = feet

ns/fp = not sampled / free product present

µg/L = micrograms per liter or parts per billion (ppb)

TPH-g by EPA Method SW8015Cm

BTEX & MTBE by EPA Method SW8021B

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

HVOC= halogenated volatile organic compounds (e.g., PCE, TCE, DCE, VC)

DL = detection limit

* = MTBE by EPA Method 8260

^ = Duplicate sample analyzed from different VOA

1) Analytical results for MW-2 and MW-3 reversed from lab data based on historical concentration trends observed

2) Groundwater sample re-analyzed for MTBE-only by EPA Method SW8260B

3) Wellheads removed and wells now located ~4' below grade beneath new residential construction; routine sampling is no longer possible

TABLE 2: SOIL GAS ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well 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)	2-propanol (µg/m3)
GP-1-5	08/04/06	5	331	<8.0	<7.1	<8.4	<9.7	<9.7	<17	17	23
GP-1-5D ₁	08/04/06	5	-	<8.0	<7.1	<8.4	<9.7	<9.7	<17	18	23
GP-1-5	11/08/06	5	1,100	<4.6	<4.0	<4.8	<5.5	<5.5	<9.5	12	<12
GP-1-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-1-5	05/17/07	5	457	<3.6	<3.2	<3.8	<4.4	<4.4	<7.6	14	<9.9
GP-1-5D ₁	05/17/07	5	-	<3.6	<3.2	<3.8	<4.4	<4.4	<7.6	14	<9.9
GP-1-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-1-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	<96	<14	<10,000
GP-1-5	05/08/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-1-5	08/15/08	5	<1800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-1-5 ²	11/07/08	5	-	-	-	-	-	-	-	-	-
GP-1-10	08/04/06	10	493	<4.1	<3.6	<4.3	<5.0	<5.0	<8.6	20	<11
GP-1-10	11/08/06	10	950	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-1-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-1-10	05/17/07^	10	-	-	-	-	-	-	-	-	-
GP-1-10	12/12/07	10	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-1-10	02/14/08	10	<1,800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-1-10	05/08/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-1-10	08/15/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-1-10 ²	11/07/08	10	-	-	-	-	-	-	-	-	-
GP-2-5	08/04/06	5	493	<4.4	<3.9	6.9	<5.4	10	<9.3	600	<12
GP-2-5	11/08/06	5	1,100	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	240	<11
GP-2-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-2-5	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	<8.3	420	<11
GP-2-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-2-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	<14	<14	<10,000
GP-2-5	05/08/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-2-5	08/15/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	39	<10,000
GP-2-5 ²	11/07/08	5	-	-	-	-	-	-	-	-	-
GP-2-10	08/04/06	10	352	<10	<9.0	18	<12	<12	<21	270	<28
GP-2-10	11/08/06	10	910	<3.9	<3.4	<4.1	<4.7	<4.7	<8.1	450	<11
GP-2-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-2-10	05/17/07	10	748	<3.8	<3.3	<3.9	<4.5	<4.5	<7.9	440	<10
GP-2-10	12/12/07	10	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-2-10	02/14/08	10	<1,800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-2-10	05/08/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-2-10	08/15/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	48	<10,000
GP-2-10 ²	11/07/08	10	-	-	-	-	-	-	-	-	-

TABLE 2: SOIL GAS ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well 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)	2-propanol (µg/m3)
GP-3-5	08/04/06	5	<240	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-3-5	11/08/06	5	930	<4.4	<3.9	<4.6	<5.2	<5.2	<9.1	<8.2	<12
GP-3-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-3-5	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	17	<7.5	<11
GP-3-5D _f	05/17/07	5	582	<4.0	<3.5	<4.1	<4.8	<4.8	<8.3	16	<11
GP-3-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-3-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-5	05/08/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-3-5	08/15/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-5 ^{1,2}	11/07/08	5	-	-	-	-	-	-	-	-	-
GP-3-10	08/04/06	10	564	<4.2	<3.7	<4.4	<5.0	<5.0	<8.8	<7.9	<11
GP-3-10	11/08/06	10	1,800	<4.0	<3.6	<4.2	<4.9	<4.9	<8.4	<7.6	<11
GP-3-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-3-10	05/17/07	10	1,538	<4.1	<3.6	<4.3	<5.0	<5.0	18	<7.8	12
GP-3-10	12/12/07	10	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	-
GP-3-10	02/14/08	10	<1,800	<48	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-10	05/08/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-3-10	08/15/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-3-10 ^{1,2}	11/07/08	10	-	-	-	-	-	-	-	-	-
GP-4-5	08/04/06	5	705	<4.4	5.4	<4.6	<5.4	<5.4	<9.3	<8.4	<12
GP-4-5D ₁	08/04/06	5	599	-	-	-	-	-	-	-	-
GP-4-5	11/08/06	5	540	<4	<3.5	<4.1	<4.8	<4.8	<8.3	<7.5	<11
GP-4-5D _f	11/08/06	5	610	<7.7	<6.8	<8.0	<9.2	<9.2	<16	<14	<21
GP-4-5	03/06/07*	5	-	-	-	-	-	-	-	-	-
GP-4-5	05/17/07	5	873	<4	<3.6	<4.2	<4.9	<4.9	15	<7.6	<11
GP-4-5	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-5D _f	12/12/07	5	<1,500	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-5	02/14/08	5	<1,800	<48	<6.5	<7.7	<8.8	<27	<96	<14	<10,000
GP-4-5	05/08/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-4-5	08/15/08	5	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-4-5 ^{1,2}	11/07/08	5	-	-	-	-	-	-	-	-	-
GP-4-10	08/04/06	10	564	<4.1	6.1	17	5.7	16	12	<7.8	<11
GP-4-10D _f	08/05/06	10	529	<3.8	4.2	18	<4.6	17	18	<7.2	<10
GP-4-10	11/08/06	10	900	<4.0	<3.5	4.1	<4.8	5.2	<8.3	<7.5	<11
GP-4-10D ₁	11/08/06	10	880	<1.8	<1.6	<1.9	<2.2	<2.2	<3.8	<3.4	<4.9
GP-4-10	03/06/07*	10	-	-	-	-	-	-	-	-	-
GP-4-10	05/17/07^	10	-	-	-	-	-	-	-	-	-
GP-4-10	12/12/07	10	1,600	<48	<6.5	<7.7	<8.8	<27	<96	<14	<25
GP-4-10	02/14/08	10	-	-	-	-	-	-	-	-	-
GP-4-10	05/08/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<25
GP-4-10	08/15/08	10	<1,800	<7.3	<6.5	<7.7	<8.8	<27	-	<14	<10,000
GP-4-10 ^{1,2}	11/07/08	10	-	-	-	-	-	-	-	-	-

TABLE 2: SOIL GAS ANALYTICAL DATA SUMMARY

Vic's Auto, 245 8th Street, Oakland, California

Well ID	Date Collected	Sample Depth (ft bgs)	TPH-g (µg/m3)	MTBE (µg/m3)	Benzene (µg/m3)	Toluene (µg/m3)	Ethyl-benzene (µg/m3)	Xylenes (µg/m3)	Ethanol (µg/m3)	PCE (µg/m3)	2-propanol (µg/m3)
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NOTES:

- not sampled/analyzed

2-propanol (i.e., isopropyl alcohol) 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

ESLs = Environmental Screening Levels - for residential land use

CHHSLs = California Human Health Screening Levels

pp = CHHSL postponed

* = Sampling not possible due to seasonal wet soil conditions

^ = No sample analysis due to presence of free moisture in sample tubing

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

TPH-g by modified EPA Method TO-3

BTEX, MTBE, Ethanol, PCE, 2-propanol by modified EPA Method TO-15

1) On August 21, 2008, GP-3 and GP-4 were decommissioned during the installation of the HVDPE conveyance piping laterals

2) Per concurrence from ACHCSA in a letter dated October 3, 2008, quarterly soil gas sampling has been temporarily suspended during operation of the HVDPE system