

**RECEIVED**

*12:06 pm, Jul 16, 2012*

Alameda County  
Environmental Health

August 31, 2009

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

**Subject: Perjury Statement and Report Transmittal  
Quarterly Site Monitoring Report (Second Quarter, 2009)**

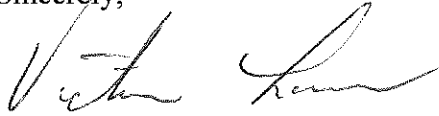
245 8<sup>th</sup> Street  
Oakland, California 94607  
AEI Project No. 116907  
ACEH RO#0000202

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. Ricky Bradford at AEI Consultants, (925) 746-6000 extension 148.

Sincerely,



Victor Lum  
Owner  
Vic's Automotive

RB/vl

Attachment

cc: Mr. Ricky Bradford, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

August 31, 2009

**QUATERLY SITE MONITORING REPORT  
(SECOND QUARTER, 2009)**

245 8<sup>th</sup> Street  
Oakland, California

AEI Project No. 116907  
ACHCSA RO#00000202

Prepared For:

Vic's Automotive  
245 8<sup>th</sup> Street  
Oakland, California 94607

Prepared By:

**AEI Consultants**  
2500 Camino Diablo, Suite 200  
Walnut Creek, California 94597  
(925) 944-2899

**AEI**

# TABLE OF CONTENTS

|  |           |
|--|-----------|
| <b>1.0 INTRODUCTION .....</b>  | <b>1</b>  |
| <b>2.0 SITE DESCRIPTION &amp; BACKGROUND.....</b>                                  | <b>1</b>  |
| <b>3.0 GEOLOGY AND HYDROGEOLOGY .....</b>  | <b>4</b>  |
| <b>4.0 HVDPE TECHNOLOGY AND PROCESS DESCRIPTION .....</b>                          | <b>4</b>  |
| 4.1 Technology Overview.....   | 4         |
| 4.2 Site, System, & Process Description.....                                       | 4         |
| <b>5.0 SUMMARY OF MONITORING ACTIVITIES .....</b>                                  | <b>6</b>  |
| 5.1 Quarterly Groundwater Monitoring.....  | 6         |
| 5.2 Quarterly Soil Gas Monitoring for Vapor Intrusion Evaluation .....             | 7         |
| 5.2.1 Routine Monitoring and Data Collection.....                                  | 7         |
| 5.2.2 Influent & Effluent Vapor Monitoring.....                                    | 7         |
| 5.2.3 Influent & Effluent Water Monitoring .....                                   | 8         |
| 5.2.4 Soil Gas Composition & Vacuum Influence Monitoring.....                      | 9         |
| 5.3 HVDPE System Operations & Maintenance .....                                    | 9         |
| 5.3.1 Routine Maintenance.....   | 9         |
| 5.3.2 Non-Routine Maintenance.....   | 10        |
| 5.3.3 System Modifications.....  | 10        |
| <b>6.0 RESULTS &amp; CONCLUSIONS .....</b>   | <b>11</b> |
| 6.1 Apparent LNAPL Thickness, Groundwater Elevations, and Hydraulic Gradient ..... | 11        |
| 6.2 Groundwater Sample Analytical Data.....  | 11        |
| 6.3 HVDPE System Process Monitoring .....  | 12        |
| 6.3.1 Influent & Effluent Vapor Sample Analytical Data .....                       | 12        |
| 6.3.2 Influent & Effluent Water Sample Analytical Data .....                       | 13        |
| 6.3.3 Influent Well Vapor and Water Flow Rates.....                                | 13        |
| 6.3.4 Mass Removal Rates.....  | 14        |
| 6.3.5 Soil Gas Composition and Vacuum Influence .....                              | 14        |
| <b>7.0 SUMMARY &amp; PLANNED ACTIVITIES.....</b>                                   | <b>15</b> |
| <b>8.0 REFERENCES .....</b>  | <b>17</b> |
| <b>9.0 REPORT LIMITATIONS AND SIGNATURES.....</b>                                  | <b>18</b> |

## FIGURES

- FIGURE 1 *SITE LOCATION MAP*
- FIGURE 2 *SITE PLAN*
- FIGURE 3 *SYSTEM LAYOUT PLAN*
- FIGURE 4 *GROUNDWATER ELEVATION DATA (05/05/09)*
- FIGURE 5 *GROUNDWATER SAMPLE ANALYTICAL DATA (05/05/09)*
- FIGURE 6 *EXTRACTION WELL INFLUENT CONCENTRATIONS OVER TIME*
- FIGURE 7 *COMBINED TPH-G INFLUENT CONCENTRATIONS OVER TIME*
- FIGURE 8 *HYDROCARBON MASS REMOVAL RATES BASED ON LAB DATA*
- FIGURE 9 *CUMULATIVE HYDROCARBON MASS REMOVED BASED ON LAB DATA*

## TABLES

- TABLE 1 *GROUNDWATER ELEVATION DATA*
- TABLE 2 *GROUNDWATER FLOW SUMMARY*
- TABLE 3 *GROUNDWATER SAMPLE ANALYTICAL DATA*
- TABLE 4 *SOIL GAS SAMPLE ANALYTICAL DATA*
- TABLE 5 *HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY*
- TABLE 6 *GROUNDWATER TREATMENT SYSTEM SAMPLE ANALYTICAL DATA*
- TABLE 7 *SOIL GAS FIELD DATA SCREENING SUMMARY ( TVH, CH<sub>4</sub>, O<sub>2</sub>, CO<sub>2</sub>)*
- TABLE 8 *WELLHEAD VACUUM & DROP TUBE DEPTH DATA SUMMARY*
- TABLE 9 *HVDPE PERFORMANCE & MASS REMOVAL DATA SUMMARY*
- TABLE 10 *THERMAL/CATALYTIC OXIDIZER PERFORMANCE & MASS REMOVAL DATA SUMMARY*
- TABLE 11 *AIR STRIPPER PERFORMANCE & MASS REMOVAL DATA SUMMARY*
- TABLE 12 *ACTIVATED CARBON ABSORBER PERFORMANCE & MASS REMOVAL DATA SUMMARY*
- TABLE 13 *HVDPE PROCESS MONITORING SCHEDULE*

## APPENDICES

- APPENDIX A *MONITORING WELL FIELD SAMPLING FORMS*
- APPENDIX B *SOIL GAS FIELD SAMPLING FORMS*
- APPENDIX C *LABORATORY ANALYTICAL REPORTS*
- APPENDIX D *REGULATORY CORRESPONDENCE*
- APPENDIX E *PROPOSED GROUNDWATER MONITORING SCHEDULE*

## 1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Mr. Victor Lum, owner and operator of Vic's Auto automotive repair and fuel service station located at 245 8<sup>th</sup> 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 ongoing investigation and mitigation of the release is being performed under the direction of the Alameda County Health Care Services Agency (ACHCSA). This report has been prepared to document the field activities and results of groundwater monitoring for the Second Quarter, 2009 as well as the high vacuum dual phase extraction (HVDPE) system processing monitoring and operations and maintenance (O&M) activities for the months of April and May of 2009.

The HVDPE system was installed and started up in June of 2007. The main purposes for installing and operating a HVDPE system onsite as interim corrective action include:

- Hydrocarbon mass removal by performing continuous HVDPE using existing monitoring/extraction wells for the removal, recovery, and treatment of light non-aqueous phase liquid (LNAPL), soil gas, and groundwater from the vadose zone, capillary fringe, and shallow saturated zone in accordance with state and local air and water quality permit requirements.
- Performing continuous HVDPE at the source and along the southwestern property boundary to the mitigate the potential for vapor intrusion into nearby residences situated above and in close proximity to the LNAPL and groundwater plumes by maintaining a low negative pressure (i.e., high vacuum) in the subsurface relative to the building foundations.

## 2.0 SITE DESCRIPTION & 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 8<sup>th</sup> Street, and is currently developed with a gasoline service station and automotive 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 with two bays used for automotive repair, two restrooms, and a cashier's office. The current UST hold and the dispenser island are located to the north of the building, along 8<sup>th</sup> Street. The former UST hold was located to the south of the building, along Alice Street. The remainder of the property is paved with asphalt and used for parking and staging vehicles for repairs.

- Between June of 1993 and August of 1994, AEI removed seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000-gallon gasoline tanks located in the sidewalk along Alice Street, two (2) 6,000-gallon gasoline tanks and one (1) 250-gallon waste oil tank. 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.

- In July of 1995, two (2) groundwater monitoring wells (MW-1 and MW-2) were installed onsite. Total petroleum hydrocarbons as gasoline (TPH-g) and benzene were detected in MW-2 at concentrations up to 210,000 µg/L and 720 µg/L, respectively during the first two monitoring episodes. Light non-aqueous phase liquid (LNAPL) or free phase gasoline was discovered in MW-1. The apparent LNAPL thickness in MW-1 ranged from 1.20 to 4.39 feet between December 1995 and March 1996.
- In August of 1996, AEI advanced three (3) soil borings (i.e., SB-1 through SB-3) onsite. TPH-g and benzene were detected in the groundwater samples from these borings at concentrations ranging from 120,000 to 140,000 µg/L, and from 12,000 to 19,000 µg/L, respectively. Methyl tertiary-butyl ether (MTBE) was also detected in all three samples at concentrations up to 27,000 µg/L. Although free phase product was not observed in the field, qualitative laboratory observations indicated an immiscible sheen was present in the samples.
- Manual bailing and pumping of LNAPL from MW-1 occurred intermittently from 1997 to 1998.
- In May of 2001, two (2) additional groundwater monitoring wells (MW-3 and MW-4) were installed onsite. In June of 2001, a free product recovery system was installed in MW-1. The free product recovery system removed several hundred gallons of LNAPL between 2001 and 2003.
- In April of 2003, AEI advanced twelve (12) additional soil borings (SB-4 to SB-15) onsite and offsite for the collection of soil, shallow groundwater, and soil vapor samples to further characterize the magnitude and lateral extent of the release.
- In January of 2005, AEI installed six (6) additional monitoring/extraction wells (MW-5, MW-6 and MW-7 were installed onsite and wells MW-10 to MW-12 were installed offsite at the 708 Alice Street property). Wells MW-8 and MW-9 were proposed for installation in the parking lane along 7<sup>th</sup> and Alice Streets; however, due to difficult insurance wording requirements imposed by the City of Oakland, these wells were not installed until March of 2008.
- From July 11 to July 27, 2005, a 16-day HVDPE pilot test was performed on wells MW-1, MW-2, MW-5, MW-6, and MW-7. Combined vapor influent flow rates ranged from approximately 170 to 190 standard cubic feet per minute (scfm) under a sustained vacuum of 16 to 17 inches of mercury (in-Hg). The average water flow rate was approximately 4.1 gallons per minute (gpm). A total of 80,740 gallons of groundwater was recovered, treated,

and discharged to the sanitary sewer under a short-term, limited volume groundwater discharge permit from the East Bay Municipal Utilities District (EBMUD). Significant drawdown and pressure (i.e., vacuum) response was observed in the vadose and saturated zone monitoring points. Approximately 5 pounds per day (lbs/day) of dissolved phase and 697 lbs/day of vapor phase hydrocarbons were recovered during the test. A total of 10,719 pounds or 1,716 gallons of gasoline was removed during this test. Based on the encouraging results of this pilot test, AEI recommended interim corrective action using HVDPE for 12 to 18 months using fixed equipment. Please refer to AEI's "HVDPE Event Report", dated December 14, 2005, for more information.

- In March of 2006, the ACHSA concurred with the implementation of HVDPE using fixed equipment and requested a system design, operations and maintenance, and monitoring plan. In this letter, the ACHSA also requested soil vapor sampling to evaluate the potential for vapor intrusion due to the elevated concentrations of fuel hydrocarbons detected in the soil and groundwater onsite and offsite.
- In May of 2006, a HVDPE system design, operations and maintenance, and monitoring plan and a separate soil gas investigation work plan were submitted to ACHSA for review and comment. Please refer to AEI's "High Vacuum Dual Phase Extraction System Design, Operations, and Maintenance Plan," dated May 24, 2006 and "Soil Gas Investigation Work Plan", dated May 12, 2006, for more information.
- In November of 2006, trenching and installation of the conveyance piping for HVDPE system was conducted. The system completion and delivery was scheduled for 1<sup>st</sup> Quarter 2007; however, the system was delivered in April 2007. The remaining infrastructure, such as the rotary phase converter, equipment, fence, and wellhead connections were installed in May of 2007 and the system was started up on June 26, 2007.
- On June 11, 2007, two (2) 55-gallon drums, or approximately 100 gallons of water containing about 50% LNAPL, was removed from MW-1 and MW-6 by operating the HVDPE system in product skimming mode.
- In November of 2007, additional HVDPE conveyance piping was installed above grade behind the onsite building to the rear of the property and the system was expanded to include monitoring/extraction wells MW-10, MW-11, and MW-12.
- In March of 2008, wells (MW-8, MW-9 and MW-13) were installed. Elevated concentrations of TPH-g, BTEX, and MTBE were detected in samples collected from MW-9. Low to none-detectable concentrations of TPH-g, BTEX, and MTBE were detected in MW-8 and MW-13. Elevated concentrations of MTBE were detected in MW-13.
- Between August 21 and 22, 2008, soil gas probes GP-3 and GP-4 was decommissioned by physical removal and three (3) horizontal HVDPE conveyance piping laterals were installed to MW-10, 11, and 12 so that these wells could continue to be used for dual phase extraction while the property was being developed.

### **3.0 GEOLOGY AND HYDROGEOLOGY**

The elevation of the site is approximately 27 to 29 feet above mean sea level (amsl). The site is flat; however, the topography of the area slopes gently to the southwest. The site is located between Lake Merritt and the Oakland Inner Harbor channel, approximately one-half mile from each. The near surface sediments are mapped as Holocene and Pleistocene Merritt Sand (Qms), which are further described as “fine-grained, well-sorted, well-drained, Aeolian sand deposits” (Helley and Graymer, 1997 and Graymer, 2000). Depth to the Franciscan Formation basement underlying the unconsolidated deposits is approximately 400 feet (Norfleet Consultants, 1998).

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 13 to 17 feet bgs, corresponding to elevation of approximately 10 to 14 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. Recent water levels have been affected by the groundwater extraction activities.

### **4.0 HVDPE TECHNOLOGY AND PROCESS DESCRIPTION**

#### **4.1 Technology Overview**

HVDPE is a proven and effective technology for a wide range of soil types and subsurface conditions. HVDPE is often also referred to as dual phase extraction (DPE), multi-phase extraction (MPE), two-phase extraction (TPE), and sometimes “bioslurping”. There are several variations of this technology, but a great majority of HVDPE systems use a water-sealed liquid-ring vacuum pump to simultaneously extract and recover LNAPL, groundwater, and soil gas through a single 1-inch diameter adjustable drop tube (also called a “stinger”) sealed within a 2 to 4-inch diameter extraction well. The application of high vacuum enhances soil vapor extraction (SVE) by lowering the water table and creating dewatered zones and exposing previously saturated soils to airflow. The airflow through the subsurface supplies oxygen needed to enhance in-situ aerobic biodegradation of fuel hydrocarbons, which is analogous to bioventing technology.

#### **4.2 Site, System, & Process Description**

Light non-aqueous phase liquid (LNAPL), soil gas and groundwater are simultaneously extracted through a single 1-inch diameter drop tube currently installed in eight (8) monitoring/extracting



wells (MW-1, MW-2, MW-5 to MW-7, and MW-10 to MW-12) using two (2) 15 horsepower water-sealed liquid ring pumps piped in parallel. These pumps can generate flows up to 140 cubic feet per minute (cfm) each (i.e., 280 cfm combined capacity) and high vacuums of up to 28 in-Hg, but normally operate in the range of 18 to 22 in-Hg.

The monitoring wellheads were modified for dual phase extraction by installing a 1-inch PVC ambient bleed air valve, two-hole cast iron wellhead pump seal, stinger and casing vacuum gauges, and 1-inch clear, flexible PVC stinger. The manifold and conveyance piping leading up to the manifold were constructed out of schedule 80 PVC. Recovered LNAPL, soil gas, and groundwater are separated by a knock-out tank. Because the LNAPL and other gasoline fuel hydrocarbons dissolved in the groundwater are volatilized under high vacuum (i.e., >20 in-Hg), an oil-water separator is not used. A progressive cavity pump transfers the groundwater from the knock-out tank to the top of the low-profile air stripping unit. Groundwater trickles-down through small holes in the air stripper trays, where nearly 99% of the remaining volatile fuel hydrocarbons are stripped from the groundwater. Groundwater is pumped from the air stripper reservoir to a single 1,000-pound activated carbon absorber, where its further treated and polished and then discharged to the onsite sanitary sewer under a wastewater discharge permit from the East Bay Municipal Utilities District (EBMUD).

The soil gas and off-gas from the air stripping unit is routed to a thermal/catalytic oxidizer operating in catalytic mode for direct thermal destruction. The catalytic oxidizer operates at 700 °F with a minimum destruction efficiency of 99% as required by permit. The treated off-gas is discharge through a stack located 15 feet above grade under a Bay Area Air Quality Management District (BAAQMD) air quality permit.

A Dwyer<sup>®</sup> Instruments (Model No. DS-300) averaging pitot tube combined with a dual-scale Magnehelic<sup>®</sup> differential pressure gauge is used to measure the well velocity and total velocity. The well velocity and total velocity are multiplied by the cross sectional area of the pipe (i.e., 0.0491 ft<sup>2</sup> for a 3-inch pipe) to obtain the actual flow rate. The difference between the well flow rate and total flow rate is the air stripper flow rate. All flow rates are corrected to standard temperature and pressure (i.e., 70°F and 1 atm or 29.92 in-Hg) using formulas provided by Dwyer<sup>®</sup>. The groundwater recovery volume is measured with a Neptune (Model T-10) cold water flow totalizer and recorded along with the equipment hour meter reading during each O&M visit. The flow totalizer and hour meter readings are used to estimate the average daily flow rate between sampling dates.

The field point names for the vapor influent sample ports are the monitoring well identification followed by the letter “S” (i.e., MW-1S, MW-2S, MW-5S, MW-6S, MW-7S and MW-10S to MW-12S). These sample ports are labeled and located along a common manifold inside the fenced equipment enclosure. Control valves are installed on each line to regulate the vacuum and flow. Clear sections of pipe are also installed on each line to observe the flow patterns and process streams.

The field point names for the vapor influent samples ports before dilution air, after dilution air, and from the air stripping unit and the stack gas effluent sample port are: PRED, POST, AS, and STACK.

The field point names for the water influent sample ports for the combined influent, after the air stripper, after the first carbon absorber, and after the last carbon absorber at the effluent: INF, POST-AS, POST-C1, and EFF.

The four (4) nested soil gas probes used for collecting soil gas samples and vacuum measurements are as follows: SG-1-5', SG-10', SG-2-5', SG-2-10', SG-3-5', SG-3-10', to SG-4-5' and SG-1-10'.

The location of the sample ports for the extraction wells are shown on Figure 3. The soil gas probe locations are shown on Figure 2.

## **5.0 SUMMARY OF MONITORING ACTIVITIES**

### **5.1 Quarterly Groundwater Monitoring**

The HVDPE system was shutdown on April 21, 2009, approximately two (2) weeks prior to this groundwater monitoring event. On May 5, 2009, the water levels were measured and groundwater samples were collected from all of the monitoring / dual-phase extraction wells, except for MW-10 through MW-12. Measuring the depth to water and sampling these wells is no longer feasible because the wellheads were removed and the wells were buried beneath a new residential construction in August of 2008. The well locations are shown in Figure 2.

The well caps and stingers, where applicable, were removed and depths from the top of the well casings were measured with an electronic water level indicator prior to sampling. Wells with historic free product (i.e., MW-1, MW-6, and MW-7) were checked with an oil-water interface meter. 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 clear plastic bailers.

Temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured while purging the wells and 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% of the static level, a water sample was collected.

The groundwater samples were collected with disposable bailers into 40-milliliter (mL) volatile organic analysis (VOA) vials and capped so that no head space or 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 Pittsburg, California (DHS Certification #1644). A total of ten (10) groundwater samples were submitted for chemical analysis for TPH-g by EPA Method SW8015C and MBTEX by EPA Method SW8021B. In addition, due to the

elevated detection limit for MTBE by EPA Method SW8021B, the samples collected from MW-2, MW-5, MW-7 and MW-9 were tested for MTBE only by EPA Method SW8260B.

## **5.2 Quarterly Soil Gas Monitoring for Vapor Intrusion Evaluation**

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

### **5.2.1 Routine Monitoring and Data Collection**

An AEI project engineer monitored the system using the remote monitoring system via email daily from the office. The system was also monitored and checked by a senior field technician weekly to biweekly and as needed to respond to system shutdowns. A Daily Field Report and O&M Field Logs were filled out during each site visit. Routine O&M visits ranged from approximately 2 to 4 hours per visit, depending upon the activities performed.

The following data was recorded on the Daily Field Report and/or O&M Field Log during each site visit:

- HVDPE System: current hour meter reading, PG&E meter reading (kilowatt-hours), system runtime (hours), system inlet vacuum (in-Hg), vacuum at the inlets of both liquid ring pumps (in-Hg), well velocity (fpm) and calculated well flow rate (cfm) by multiplying the well velocity by the cross-sectional area (ft<sup>2</sup>) of a 3-inch pipe, control valve initial and final positioning (% open), and cooling fan(s) status (on/off).
- HVDPE Wells: the stinger vacuum (in-Hg), casing vacuum (in-Hg), and drop tube depth (ft to c) data were collected monthly or as needed.
- Thermal/Catalytic Oxidizer: propane level (%), preheat controller temperature (°F), exhaust controller temperature (°F), total velocity (fpm) and calculated total flow rate (cfm) by multiplying the total velocity and by the cross-sectional area (ft<sup>2</sup>) of a 3-inch pipe.
- Air Stripper: variable frequency drive setting (Hz), outlet velocity (fpm) and calculated outlet flow rate (cfm) by subtracting the well flow rate from the total flow rate, air stripper tray backpressure (in-H<sub>2</sub>O), control valve positioning (% open).
- Activated Carbon Absorbers: inlet pressure (psig), outlet pressure (psig), flow totalizer reading (gallons), and whether or not the bag filter was change and/or carbon absorber backwashed.

### **5.2.2 Influent & Effluent Vapor Monitoring**

Influent and effluent vapor samples were collected on April 21 and May 19, 2009. Vapor samples were not collected in June because the system was shutdown after sampling on May 19, 2009 due

to declining recovery rates and for a three (3) month rebound evaluation as mentioned in Section 7.0 of AEI's "Quarterly Site Monitoring Report (First Quarter, 2009), dated April 30, 2009.

The extraction well and other process sample ports were continuously purged and sampled with a Gast® (Model DOA-P707-FB) 1/3 horsepower diaphragm vacuum / pressure pump, capable of up to 1.1 cfm free airflow and vacuums up to 25.5 in-Hg, using the "side-stream" purging and sampling method as described in Downey, et al., 2004 and Hinchee, et al., 1996. A 2-liter water separator device was used to collect vapor samples from the dual-phase air-water influent process stream.

TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> concentrations were continuously monitored with an RKI Instruments Eagle (Type 474-04) multi-gas detector using a sampling tee placed several feet downstream of the pump outlet. The hydrocarbon detector, which is a catalytic bead sensor, was calibrated with a 40% LEL (i.e., 4,400 ppmv) hexane gas standard. The methane, oxygen, and carbon dioxide detectors were also calibrated with the appropriate gas standards. Once the readings stabilized, they were recorded on the field data sheets and a vapor sample was collected into 1-liter Tedlar bag using the same sampling tee.

The Tedlar bags were stored in a cardboard box and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (DHS Certification No. 1644) on the day of collection. The samples were analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.

### ***5.2.3 Influent & Effluent Water Monitoring***

Influent and effluent process water samples were collected on April 21 and May 19, 2009. Process water samples were not collected in June because the system was shutdown for a three (3) month rebound evaluation.

The process water sample ports were purge of approximately 1-Liter of water prior to sample collection. Water was collected into three (3) 40-millileter (mL) volatile organic analysis (VOA) vials, or as required by the analysis, and capped so that no head space or air bubbles were present within the sample containers.

The water samples were placed in a pre-chilled cooler on a mixture of water and ice and transported under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (DHS Certification #1644) on the day of collection. The samples were analyzed for TPH-g by EPA Method SW8015C and MBTEX by EPA Method SW8021B.

#### **5.2.4 Soil Gas Composition & Vacuum Influence Monitoring**

On April 21 and May 1, 2009, nested soil gas probes (GP-1 and GP-2) were screened in the field for TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> and vacuum influence was measured. The soil gas probes were not screened nor was the vacuum influence measured during the month of June because the system was shutdown for a three (3) month rebound evaluation.

The vacuum influence was measured with a set of Magnehelic differential pressure gauges and recorded first. A 3/16-inch inside diameter clear vinyl or equivalent tubing was used to connect the Magnehelic<sup>®</sup> gage to the plug valve and soil gas probe. The following pressure ranges in inches of water were normally available: 0-0.2", 0-1", 0-5", 0-10", 0-20", 0-50", 0-100", and 0-150".

Then the soil gas probes were continuously purged and sampled with a Geotech (Model Geopump II) peristaltic pump, capable of vacuums up to 25 in-Hg, using the "side-stream" purging and sampling method as described in Downey, et al., 2004 and Hinchee, et al., 1996.

TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> concentrations were continuously monitored with an RKI Instruments Eagle (Type 474-04) multi-gas detector using a sampling tee placed several feet downstream of the pump outlet. The hydrocarbon detector, which is a catalytic bead sensor, was calibrated with a 40% LEL (i.e., 4,400 ppmv) hexane gas standard. The methane, oxygen, and carbon dioxide detectors were also calibrated with the appropriate gas standards. Once the readings stabilized, they were recorded on the field data sheets. Vapor samples were not collected into 1-liter tedlar bags for laboratory analysis.

### **5.3 HVDPE System Operations & Maintenance**

#### **5.3.1 Routine Maintenance**

Routine maintenance performed during this quarter included:

- Performed visual inspections of all major system components, including checking for signs of leaks, physical wear, and/or damage during each site visit.
- Checked the cooling blower filter, dilution air inlet filter, and air stripper blower filter. All three (3) filters were changed this quarter and are routinely changed on a quarterly basis or as needed based on a visual inspection of the filter elements.
- Checked the two (2) separator filters on Liquid Ring Pump #2 (LRP #2). Both filters were changed this quarter and are routinely changed on a quarterly basis or as needed based on the quality of the influent process water.

- Formerly considered a non-routine maintenance item, the aluminum fins on the heat exchanger for LRP #2 were cleaned with compressed air during each O&M visit.
- No other routine maintenance was performed during this quarter.

### **5.3.2 Non-Routine Maintenance**

Non-routine maintenance performed during this quarter included:

- On April 21, 2009, the system was shutdown upon arrival because the main gas valve on the propane tank was inadvertently shutoff by Kamps Propane during a routine delivery on April 15, 2009.
- On April 27, 2009, Magdeburg was contacted to check on the status of repairs to Liquid Ring Pump #1 (LRP #1). Magdeburg stated that the parts were still on order from Germany and repairs should be completed by mid-May.
- On May 11, 2009, Magdeburg called to say that LRP #1 had been tested, is currently being painted, and should be ready for pick-up in a couple of days. LRP #1 was completely overhauled and the electric motor was re-wound.
- On May 14, 2009, LRP #1 was picked up from Magdeburg, brought back to the office, and re-assembled with the other components.
- On May 19, 2009, the well casing was checked for cracks due to a loss of stinger vacuum. No cracks were identified but the wellhead seal was loose and leaking. The wellhead seal was re-tightened and the vacuum leak was fixed.
- On May 19, 2009, the backup battery on the remote monitoring system was re-installed after charging it at the office. However, the remote monitoring system was still not operating and will require further investigation during the next quarter.
- No other none-routine maintenance was performed during this quarter.

### **5.3.3 System Modifications**

System modifications completed during this quarter included:

- No major system modifications were performed during this quarter.

## 6.0 RESULTS & CONCLUSIONS

### 6.1 Apparent LNAPL Thickness, Groundwater Elevations, and Hydraulic Gradient

The results of the apparent LNAPL thickness measurements, groundwater elevations, and hydraulic gradient for this monitoring episode are summarized below:

- LNAPL was not encountered, nor was a hydrocarbon sheen noted, in any of the monitoring wells, although elevated concentrations of dissolved hydrocarbons, including TPH-g, BTEX, and MTBE, remain onsite and offsite.
- Not including the recently installed wells MW-8, MW-9, and MW-13, groundwater elevations ranged from approximately 17.36 (MW-6) to 15.72 (MW-2) feet above mean sea level (msl). The elevations of MW-8, MW-9, and MW-13 relative to msl have not been surveyed pending the installation of two (2) additional monitoring wells (MW-15 and MW-16) in a parking lane along the southeastern side of 7<sup>th</sup> Street and installation of one (1) monitoring well (MW-14) along Alice Street.
- The groundwater elevations have been influenced by the HVDPE groundwater extraction activities. Therefore, groundwater elevation contours have not been included on Figure 4.
- The normal historical groundwater flow direction has been predominantly to the south with an average hydraulic gradient of approximately 0.010 ft/ft.

The historic and current groundwater elevation data is summarized in Table 1 with the current data shown on Figure 4. A summary of the current and historic average groundwater elevations and flow directions are presented in Table 2.

### 6.2 Groundwater Sample Analytical Data

The analytical results for the groundwater sample collected for this monitoring episode are summarized below:

- The highest concentrations of TPH-g were detected in MW-6, MW-1 and MW-9 at 58,000 µg/L, 44,000 µg/L, and 44,000 µg/L, respectively.
- The highest concentration of benzene was detected in MW-9 at 14,000 µg/L. The next highest concentrations of benzene were detected in MW-1, MW-7, and MW-6 at 1,300 µg/L, 1,200 µg/L and 560 µg/L, respectively.
- The highest concentration of MTBE was detected in MW-9 at 730 µg/L. The second highest concentration was detected in MW-7 at 77 µg/L.

- Elevated concentrations of TPH-g were detected in source area wells MW-2, MW-5, and MW-7 at 570 µg/L, 12,000 µg/L, and 7,200 µg/L, respectively.
- Very low to almost none-detectable levels of TPH-g, BTEX, and MTBE were detected in MW-3, MW-4, MW-8, and MW-13.
- LNAPL of any apparent measurable thickness has not been detected in MW-1, MW-6, and MW-7 since May of 2007.
- Dissolved hydrocarbons have been significantly reduced (by at least one order of magnitude) onsite and offsite by operating the HVDPE system, although rebound was observed particularly in source area wells MW-1 and MW-6.
- It is unknown at this time if the elevated concentrations of TPH-g and BTEX in MW-9 will be reduced by operating the HVDPE system.

A summary of the current and historic groundwater analytical data is summarized in Table 3 with current data shown on Figure 5. Refer to Appendix A for the monitoring well field sampling forms. The laboratory analytical report with chain of custody and quality assurance / quality control documentation is included in Appendix C.

## **6.3 HVDPE System Process Monitoring**

### ***6.3.1 Influent & Effluent Vapor Sample Analytical Data***

The analytical results of the monthly influent and effluent vapor samples are summarized below:

- On April 21, 2009, the highest concentrations of TPH-g were detected in MW-11S (460 ppmv), MW-10S (240 ppmv), MW-2S (130 ppmv), and MW-7S (53 ppmv). The highest concentrations of benzene were detected in MW-11S (32 ppmv), MW-12S (6.5 ppmv), MW-10S (4.4 ppmv), and MW-7S (2.7 ppmv). The highest levels of CO<sub>2</sub> were detected in wells MW-2S, MW-7S, MW-10S, and MW-11S at concentrations ranging from 1.0% in MW-10S to 1.4% in MW-2S.
- On May 19, 2009, the highest concentrations of TPH-g were detected in MW-7S (890 ppmv), MW-2S (460 ppmv), MW-5S (450 ppmv), and MW-10S (370 ppmv). The highest concentrations of benzene were detected in MW-7S (29 ppmv), MW-11S (5.1 ppmv), MW-10S (4.9 ppmv), and MW-12S (4.7 ppmv). The highest levels of CO<sub>2</sub> were detected in wells MW-2S, MW-7S, MW-10S, and MW-11S ranging from 1.5% in MW-11S to 5.2% in MW-7S.
- The pre-dilution (PRED) influent concentrations of TPH-g ranged from 58 ppmv to 190 ppmv.



- The air stripping system effluent concentrations of TPH-g remained at non-detect concentrations (less than 7.0 ppmv).
- Sampling the post-dilution (POSTD) process sample port was discontinued beginning in the Third Quarter, 2008 monitoring and reporting period because it does not provide any additional useful information above of beyond what data has already been collected. Refer to Note #10 on Table 10 for more information.
- TPH-g, BTEX, and MTBE were not detected in the STACK sample at or above the laboratory reporting limit of 7.0 ppmv.

A summary of the historic and current vapor influent and effluent sample analytical and field screening data is presented in Table 5. The laboratory analytical report with chain of custody and quality assurance / quality control documentation is included in Appendix C.

### ***6.3.2 Influent & Effluent Water Sample Analytical Data***

The results of the monthly influent and effluent water samples are summarized below:

- The concentrations of TPH-g and benzene detected in the combined water influent (INF) ranged from 590 to 1,100 µg/L and 31 to 53 µg/L, respectively.
- The concentrations of TPH-g and benzene detected in the water effluent from the air stripper (POST-AS) ranged from non-detect (less than 50 µg/L) to 57 µg/L and non-detect (less than 0.5 µg/L) to 2.3 µg/L.
- The average air stripper removal efficiency during this quarter was approximately 96.75%.
- TPH-g and BTEX were not detected in the effluent (EFF) at or above the laboratory reporting limits (less than 5.0 µg/L).

A summary of the historic and current water influent / effluent sample analytical data is presented in Table 6. The laboratory analytical report with chain of custody and quality assurance / quality control documentation is included in Appendix C.

### ***6.3.3 Influent Well Vapor and Water Flow Rates***

The total well influent vapor velocity ranged from approximately 1,250 to 1,400 feet per minute (fpm) and the total well influent flow rate ranged from approximately 61 to 69 standard cubic feet per minute (scfm). Average groundwater extraction rates ranged from 2,795 to 3,253 gallons per day or approximately 1.94 to 2.26 gallons per minute (gpm). Approximately 79,790 gallons of groundwater was recovered, treated, and discharged to the sanitary sewer between March 18, 2009 and May 20, 2009. A total of approximately 1,465,550 gallons have been recovered and treated since startup in June of 2007.

A summary of the historic and current well vapor and water flow rates is presented in Tables 9 and 12. The laboratory analytical report with chain of custody and quality assurance / quality control documentation is included in Appendix C.

#### **6.3.4 Mass Removal Rates**

Short-term and long-term vapor phase and dissolved phase mass removal rates in pounds per day (lbs/day) and gallons per day (gpd) were estimated using TPH-g concentrations based on lab data and the actual system runtime between sampling dates.

The vapor phase mass removal rates ranged from approximately 2 to 5 pounds per day (lbs/day) with an overall average of approximately 3.5 lbs/day during this reporting period. Approximately 49 pounds or 8 gallons of gasoline in the vapor phase was recovered and treated between March 18, 2009 and May 19, 2009. Approximately 26,479 pounds or 4,413 gallons of vapor phase gasoline have been removed since startup in June of 2007.

Although insignificant when compared with the vapor phase mass removal data, the dissolved phase mass removal rates ranged from approximately 0.01 to 0.03 lbs/day with an overall average of approximately 0.02 lbs/day. Approximately 0.4 pounds or 0.1 gallon of gasoline in the dissolved phase was recovered and treated between March 18, 2009 and May 20, 2009. Approximately 141.3 pounds or 23.5 gallons of dissolved phase gasoline has been removed since startup.

A summary of the historic and current vapor phase mass removal rates with assumptions, unit conversions, and sample calculations are presented in Tables 9 and 10 and shown on Figure 8. The dissolve phase mass removal rates are presented in Table 12. A cumulative vapor phase mass removal graph is shown on Figure 9.

#### **6.3.5 Soil Gas Composition and Vacuum Influence**

The results of the TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> field screening data and vacuum influence measurements collected on April 21 and May 1, 2009 are summarized below:

- On May 1, 2009 water was detected in GP-1 and GP-2 at 10-feet bgs but not at 5-feet bgs. Field screening and vacuum influence measurements were not collected from the probes because water was detected.
- Concentrations of total volatile hydrocarbons (TVH) were not detected in any of the soil gas probes at or above the detection limit of 5 ppmv.
- The concentration of O<sub>2</sub> in all probes screened at 5 and 10-feet bgs was nearly 20%.

- The concentrations of CO<sub>2</sub> in all probes screened at 5-feet bgs ranged from approximately 0.0 to 0.7%.
- The concentrations of CO<sub>2</sub> in only probe screened at 10-feet bgs was approximately 0.0 to 0.5%.
- Significant vacuum influence (i.e., greater than 0.1 inches of water – Hinchee, R.E., et al., 1996 and others) was measured at 0.5 in-H<sub>2</sub>O in GP-2 at 10-feet bgs on April 21, 2009.

A summary of the historic and current TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> soil gas field screening data and vacuum influence measurements are presented in Table 8.

## 7.0 SUMMARY & PLANNED ACTIVITIES

This report presented the findings of the Second Quarter, 2009 groundwater monitoring event and included a discussion of the field activities and results of the HVDPE system operations and maintenance and process monitoring. Quarterly soil gas sampling for vapor intrusion has been temporarily suspended during the operation of the HVDPE system.

The main results of this monitoring period are summarized below:

- The highest concentrations of TPH-g, BTEX, and MTBE were detected in MW-9. The second highest concentrations were detected in MW-6. Very low to non-detectable concentrations of TPH-g and BTEX were detected in MW-3, MW-8 and MW-13. MTBE has not been detected in MW-8 above the standard reporting limit of 5 µg/L.
- The results of this groundwater and soil gas monitoring event are generally consistent with previous episodes with a notable decrease in groundwater table elevation, which is likely a result of the groundwater extraction activities onsite and offsite.
- LNAPL has not been detected since the HVDPE system was installed and started up in June of 2007, although elevated dissolved phase concentrations remain onsite and offsite.
- Decreases in the overall concentrations of dissolved phase hydrocarbons in several wells onsite and offsite (most notably MW-1, 2, 5, 6, and 7) are the result of ongoing HVDPE remediation activities.
- An overall lower than historic but somewhat significant mass of volatile hydrocarbons is still being removed from the subsurface (up to 5 gallons per day). The influent vapor concentrations of hydrocarbons are within the range for catalytic oxidation, but may be still be too high for activated carbon to be a more cost-effective treatment option.
- Nearly ambient concentrations of oxygen indicate the HVDPE process is fully oxygenating the soils in the vadose zone, which can support and enhance aerobic biodegradation of hydrocarbons in the subsurface.

The following activities and system modifications are planned for the next quarter:

- Soil gas sampling has been temporarily suspended during the operation of the HVDPE system as approved by the ACHCSA in a letter dated October 3, 2008.
- The recently installed monitoring wells MW-8, MW-9, and MW-13 will continue to be sampled quarterly and analyzed for TPH-g by EPA Method 8015C and MBTEX by EPA Method 8021B.
- Due the elevated reporting limit for MTBE by EPA Method 8021B in certain monitoring wells, AEI recommends testing all wells with elevated reporting limits for MTBE by EPA Method 8260B during the next and subsequent groundwater monitoring events as needed.
- Between July 21 and 22, 2009, two (2) additional groundwater monitoring wells (MW-15 and MW-16) were installed in a parking lane along the southeastern side of 7<sup>th</sup> Street and one (1) monitoring well (MW-14) was installed along Alice Street as proposed and shown on Figure 12 of AEI's "Monitoring Well Installation & Quarterly Site Monitoring Report (Second Quarter, 2008), dated August 1, 2008. The well installation, development, and sampling will be reported in the next Site Monitoring Report (Third Quarter, 2009).
- The newly installed monitoring wells (MW-14 to MW-16) and previously installed monitoring wells (MW-8, MW-9, and MW-13) will be surveyed and a new map and coordinates will be uploaded GeoTracker as required.
- Complete the three (3) month rebound data evaluation and continue operation of the HVPDE system until the influent vapor concentrations and recovery rates decline to unproductive levels, including monthly O&M and process monitoring, evaluation and optimization of the system performance, and conducting air and water discharge compliance sampling and reporting as required by permit.
- Contact ACHCSA to discuss the advancement of several continuous soil borings within the source area and at the fringe of the source area to evaluate the significance, magnitude, and extent of a residual soil source that may delay reaching groundwater cleanup goals. Also discuss the current effectiveness of the HVDPE system and potential alternatives if a significant residual adsorbed phase fuel hydrocarbon source is identified.
- Continue to screen the soil gas probes for TVH, CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> with the RKI Eagle gas detector on a quarterly rather than monthly basis. The soil gas probes will be screened according to the methods described in Downey, et al., 2004.
- While there is no room to reinstall soil gas probe GP-3 at 708 Alice Street, soil gas probe GP-4 will be reinstalled once the building construction activities have been completed, most likely during the Third or Fourth Quarter of 2009.

## 8.0 REFERENCES

Department of Toxic Substances Control (DTSC) & Los Angeles Regional Water Quality Control Board, 2003. "Advisory – Active Soil Gas Investigations", issued January 28, 2003.

Downey, D., Miller, R.N., and Dragoo, T., 2004. "Procedures for Conducting Bioventing Pilot Tests and Long-Term Monitoring of Bioventing Systems", prepared for the United States Air Force Center for Environmental Excellence by Parsons, Inc, Denver, Colorado.

DTSC, 2004. "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air", Interim-Final, California Environmental Protection Agency, Sacramento, California, issued December 15, 2004, revised February 7, 2005.

Graymer, R.W., 2000. "Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties, California", U.S. Geologic Survey, Miscellaneous Field Studies MF2342, Online Version 1.0, includes 1 geologic map and 33 page pamphlet.

Helley, E.J. and Graymer, R.W., 1997. "Quaternary Geology of Alameda County, and parts of Contra Costa, Santa Clara, San Mateo, San Francisco, Stanislaus, and San Joaquin counties, California: A Digital Database", U.S. Geological Survey, Open-File Report 97-97, includes 1 geologic map, 1 map explanation sheet, and 9 page discussion booklet.

Hinchee, R.E., et al., 1992. "Test Plan and Technical Protocol for a Field Treatability Test for Bioventing", prepared for United States Air Force Center for Environmental Excellence by the Battelle, Columbus, Ohio.

Miller, R.N., et al., 1995. "Test Plan and Technical Protocol for a Field Treatability Test for POL Free Product Recovery – Evaluating the Feasibility of Traditional and Bioslurping Technologies", prepared for the United States Air Force Center for Environmental Excellence by the Battelle, Columbus, Ohio.

Norfleet Consultants, 1998. "Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, California", prepared for the Friends of the San Francisco Estuary, P.O. Box 791, Oakland, California, and dated June 15, 1998.

Place, M.C., Coonfare, C.T., Chen, A., Hoeppel, R.E., and Rosansky, S.H., 2001. "Principles and Practices of Bioslurping", Battelle Press, Columbus, Ohio

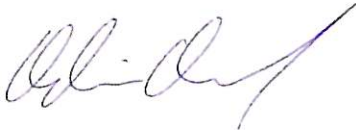
United States Army Core of Engineers, 1999. "Multi-Phase Extraction Engineer Manual", EM 1110-1-4010, Washington, DC.

## 9.0 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.

Should you have any questions or comments, or need any additional information, please contact Mr. Bradford (925) 944-2899, ext. 148 or Mr. McIntyre at (925) 944-2899, ext. 104.

Sincerely,  
**AEI Consultants**



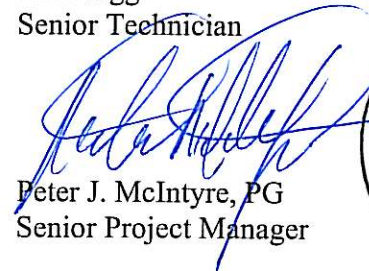
Adrian M. Angel  
Project Geologist



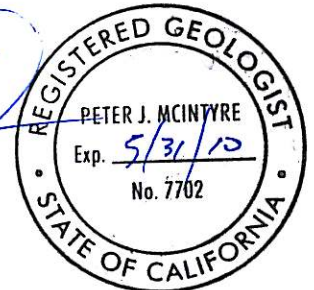
Richard J. Bradford  
Project Engineer



John Sigg  
Senior Technician



Peter J. McIntyre, PG  
Senior Project Manager



**Distribution List:**

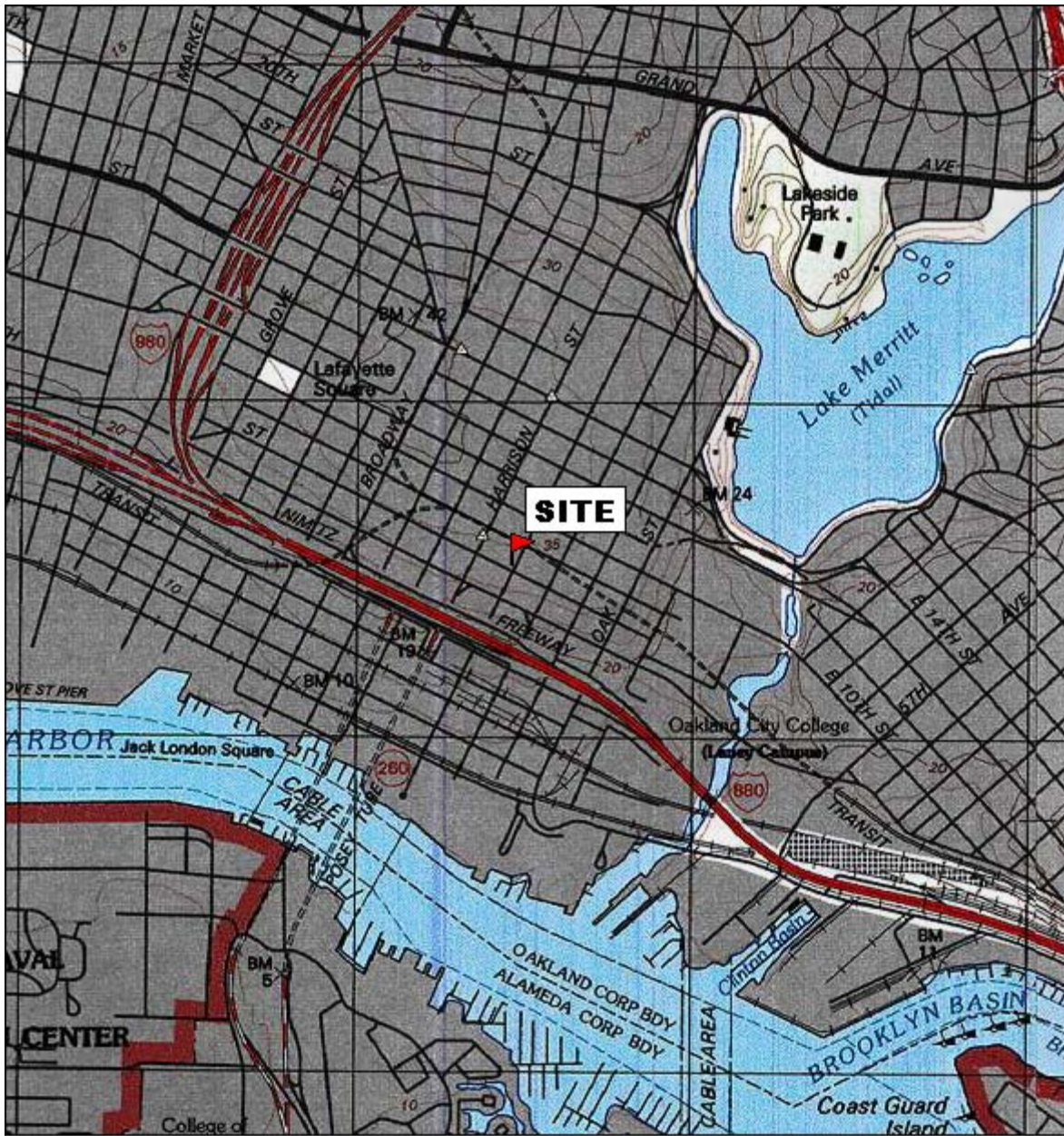
Mr. Victor Lum (1 copy)  
Vic's Automotive  
245 8<sup>th</sup> Street  
Oakland, California 94607

Attn. Mr. Jerry Wickham (electronic)  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

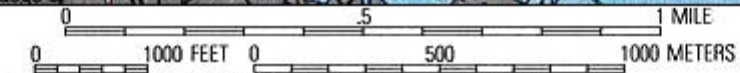
SWRCB's GeoTracker Information System (electronic)

## **FIGURES**





TN  $\star$  MN  
15 1/4°



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

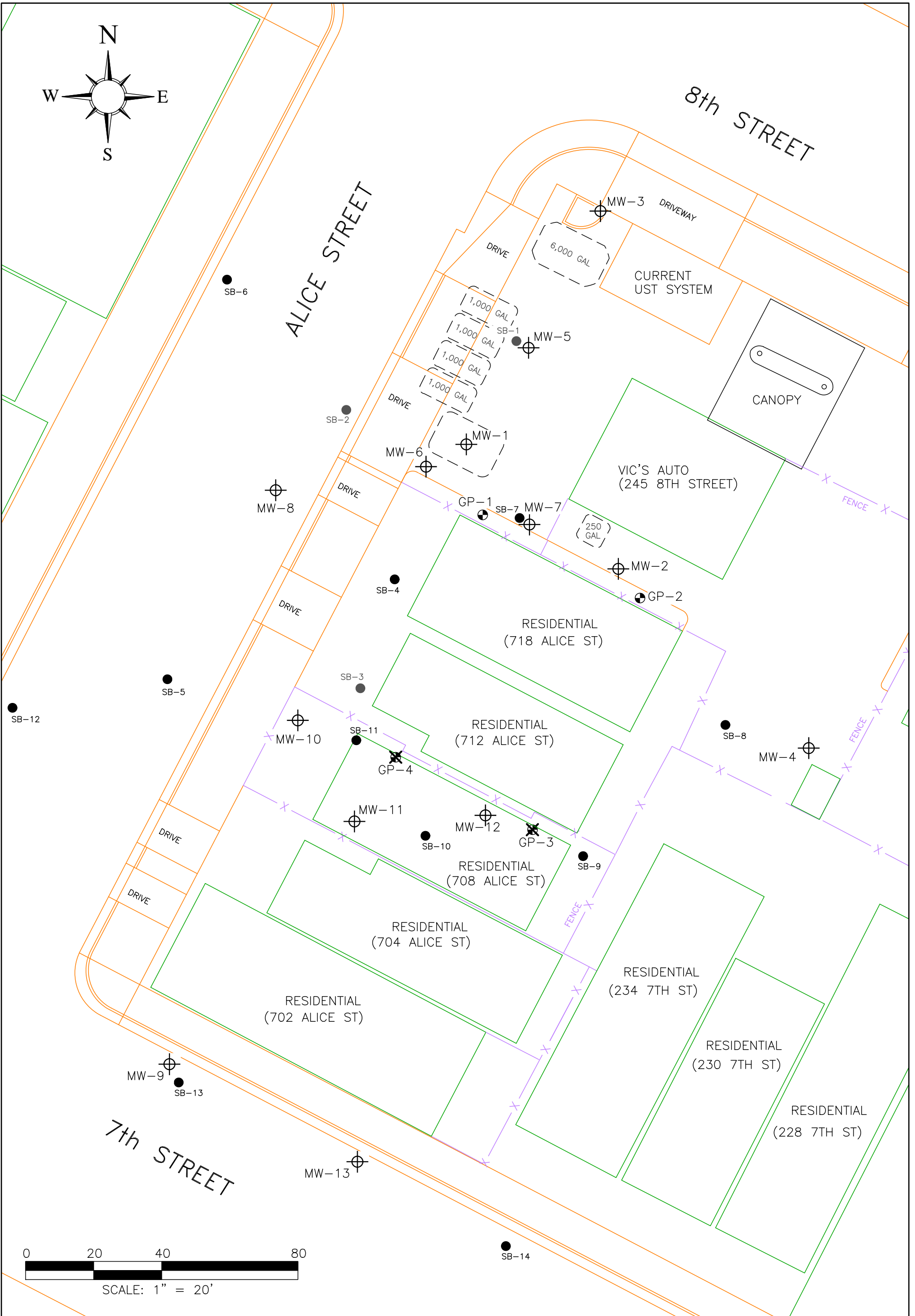
# AEI CONSULTANTS

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






## SITE LOCATION MAP

245 8<sup>th</sup> STREET  
OAKLAND, CALIFORNIA

**FIGURE 1**  
PROJECT No. 116907



**LEGEND**

-  MONITORING WELL
-  SOIL BORING (8/9/96)
-  SOIL BORING (04/02 & 03/03)
-  SOIL GAS PROBE
-  ABANDONED SOIL GAS PROBE

DRAFTED BY RJB 10-01-07  
 REVISED BY RJB 02-28-09

  
 FORMER UST  
 LOCATION

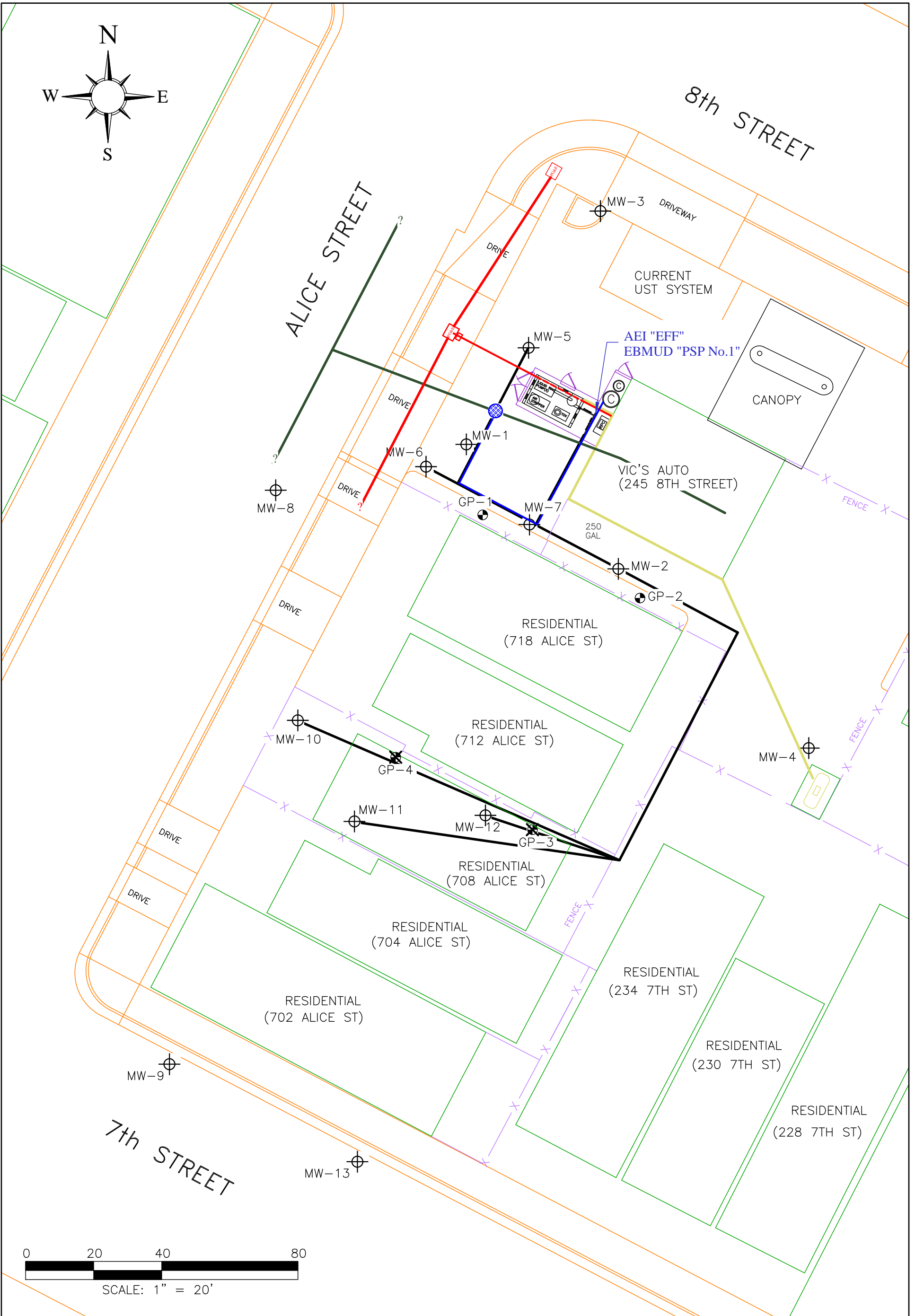
**AEI CONSULTANTS**  
 2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

**SITE PLAN**

245 8TH STREET  
 OAKLAND, CALIFORNIA

**FIGURE 2**  
 PROJECT NO. 116907





**LEGEND**

- ⊕ MONITORING WELL
- SOIL BORING (8/9/96)
- SOIL BORING (04/02 & 03/03)
- ⊙ SOIL GAS PROBE
- ⊗ ABANDONED SOIL GAS PROBE

- HVDPPE CONVEYANCE PIPING (~18 - 24" BGS)
- WATER DISCHARGE (~24" BGS)
- SANITARY SEWER (~36 - 48" BGS)
- TEMPORARY POWER SERVICE (~24" BGS)
- PROPANE LINE (~18 - 24" BGS)

DRAFTED BY RJB 10-01-07  
 REVISED BY RJB 02-28-09



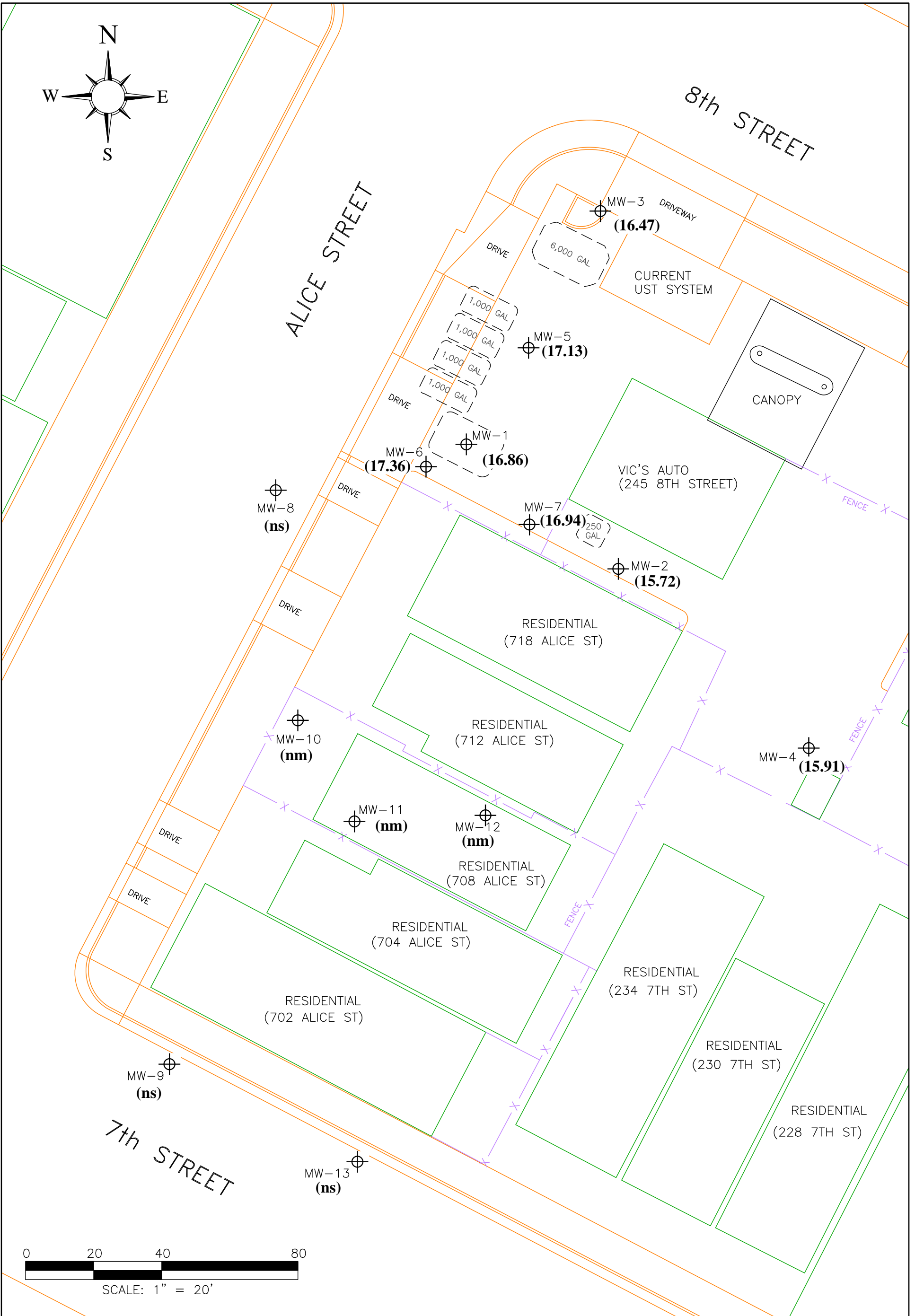
**AEI CONSULTANTS**

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK


**SYSTEME LAYOUT PLAN**

245 8TH STREET  
 OAKLAND, CALIFORNIA

**FIGURE 3**  
 PROJECT NO. 116907



**LEGEND**

 MONITORING WELL  
 MW-1  
**(15.00)** = feet above mean sea level  
 Contour Interval = n/a  
 Contours plotted with Surfer V.7.0

ns = well elevation has not been surveyed  
 nm = depth to water not measured

DRAFTED BY RJB 10-01-07  
 REVISED BY RJB 02-28-09

  
 FORMER UST  
 LOCATION

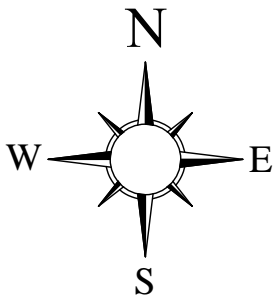
**AEI CONSULTANTS**

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

**GROUNDWATER ELEVATION DATA (05/05/09)**

245 8TH STREET  
OAKLAND, CALIFORNIA

**FIGURE 4**  
PROJECT NO. 116907



| MW-3         |      |
|--------------|------|
| TPH-g        | <50  |
| MTBE         | <5.0 |
| Benzene      | <0.5 |
| Toluene      | 0.76 |
| Ethylbenzene | <0.5 |
| Xylene       | <0.5 |

| MW-5         |        |
|--------------|--------|
| TPH-g        | 12,000 |
| MTBE         | <5.0   |
| Benzene      | 360    |
| Toluene      | 1,300  |
| Ethylbenzene | 250    |
| Xylene       | 2,000  |

| MW-1         |        |
|--------------|--------|
| TPH-g        | 44,000 |
| MTBE         | <50    |
| Benzene      | 1,300  |
| Toluene      | 6,500  |
| Ethylbenzene | 1,300  |
| Xylene       | 6,800  |

| MW-8         |      |
|--------------|------|
| TPH-g        | 94   |
| MTBE         | <5.0 |
| Benzene      | 0.91 |
| Toluene      | 7.1  |
| Ethylbenzene | 2.2  |
| Xylene       | 17   |

| MW-7         |       |
|--------------|-------|
| TPH-g        | 7,200 |
| MTBE         | 77    |
| Benzene      | 1,200 |
| Toluene      | 1,200 |
| Ethylbenzene | 150   |
| Xylene       | 860   |

| MW-6         |        |
|--------------|--------|
| TPH-g        | 58,000 |
| MTBE         | <50    |
| Benzene      | 560    |
| Toluene      | 4,300  |
| Ethylbenzene | 2,400  |
| Xylene       | 13,000 |

| MW-10        |   |
|--------------|---|
| TPH-g        | - |
| MTBE         | - |
| Benzene      | - |
| Toluene      | - |
| Ethylbenzene | - |
| Xylene       | - |

| MW-2         |     |
|--------------|-----|
| TPH-g        | 570 |
| MTBE         | 8.6 |
| Benzene      | 22  |
| Toluene      | 33  |
| Ethylbenzene | 9.2 |
| Xylene       | 73  |

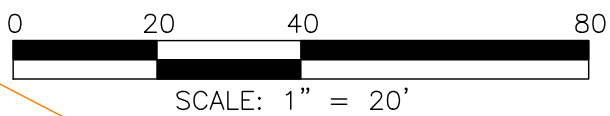
| MW-4         |      |
|--------------|------|
| TPH-g        | 85   |
| MTBE         | <5.0 |
| Benzene      | 1.2  |
| Toluene      | 8.0  |
| Ethylbenzene | 2.5  |
| Xylene       | 19   |

| MW-11        |   |
|--------------|---|
| TPH-g        | - |
| MTBE         | - |
| Benzene      | - |
| Toluene      | - |
| Ethylbenzene | - |
| Xylene       | - |

| MW-12        |   |
|--------------|---|
| TPH-g        | - |
| MTBE         | - |
| Benzene      | - |
| Toluene      | - |
| Ethylbenzene | - |
| Xylene       | - |

| MW-9         |        |
|--------------|--------|
| TPH-g        | 44,000 |
| MTBE         | 730    |
| Benzene      | 14,000 |
| Toluene      | 520    |
| Ethylbenzene | 1,900  |
| Xylene       | 3,400  |

| MW-13        |      |
|--------------|------|
| TPH-g        | <50  |
| MTBE         | <5.0 |
| Benzene      | 0.53 |
| Toluene      | 3.2  |
| Ethylbenzene | 1.1  |
| Xylene       | 7.5  |



**LEGEND**

MONITORING WELL

All groundwater sample analytical data in micrograms per liter (ug/L) or ppb

TPH-g = Total Petroleum Hydrocarbons as gasoline  
 MTBE = Methyl tertiary-butyl ether  
 NS/FP= not sampled / free product present

DRAFTED BY RJB 10-01-07  
 REVISED BY RJB 02-28-09

FORMER UST LOCATION

**AEI CONSULTANTS**

2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

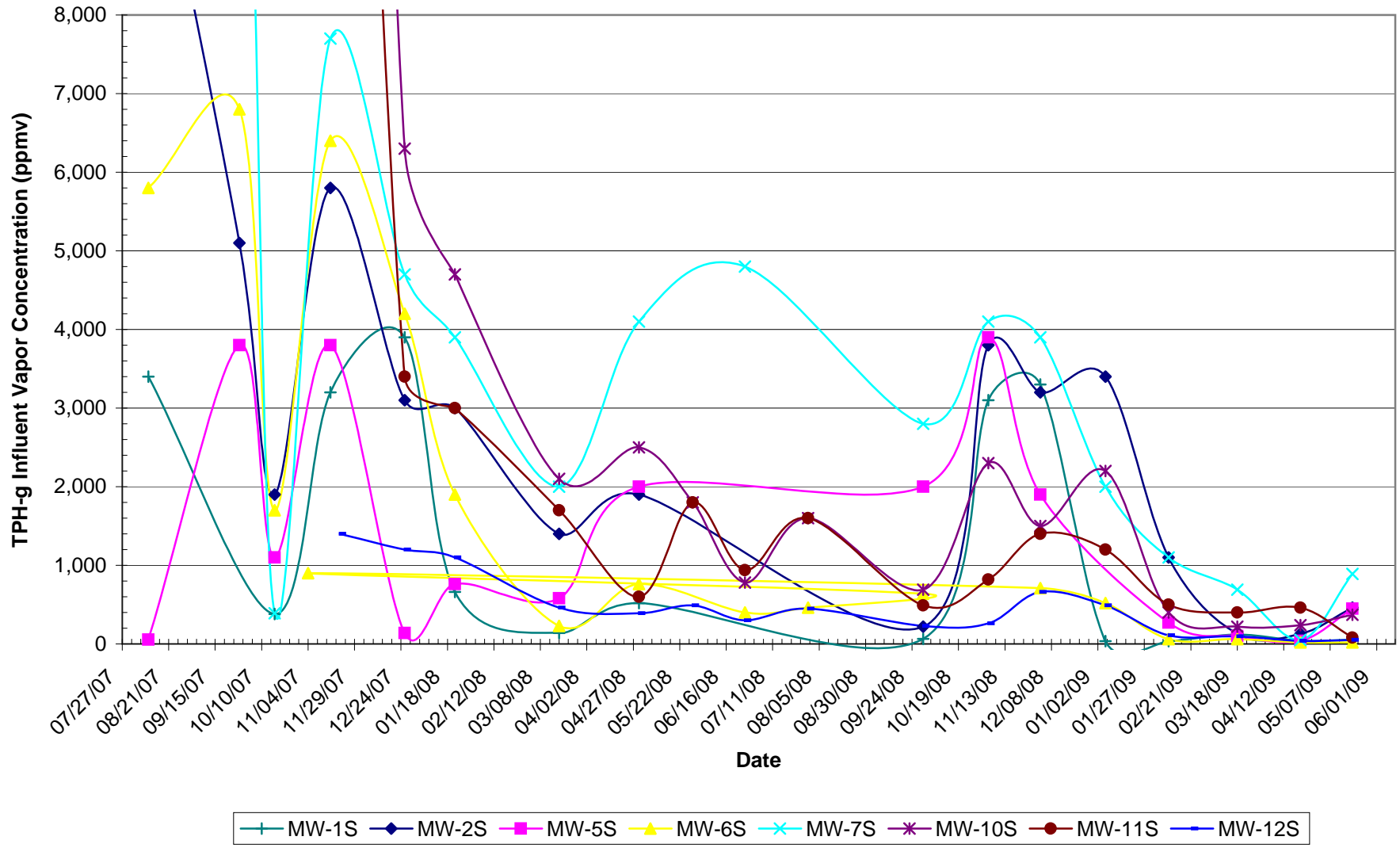
**GROUNDWATER SAMPLE ANALYTICAL DATA (05/05/09)**

245 8TH STREET  
 OAKLAND, CALIFORNIA

**FIGURE 5**  
 PROJECT NO. 116907

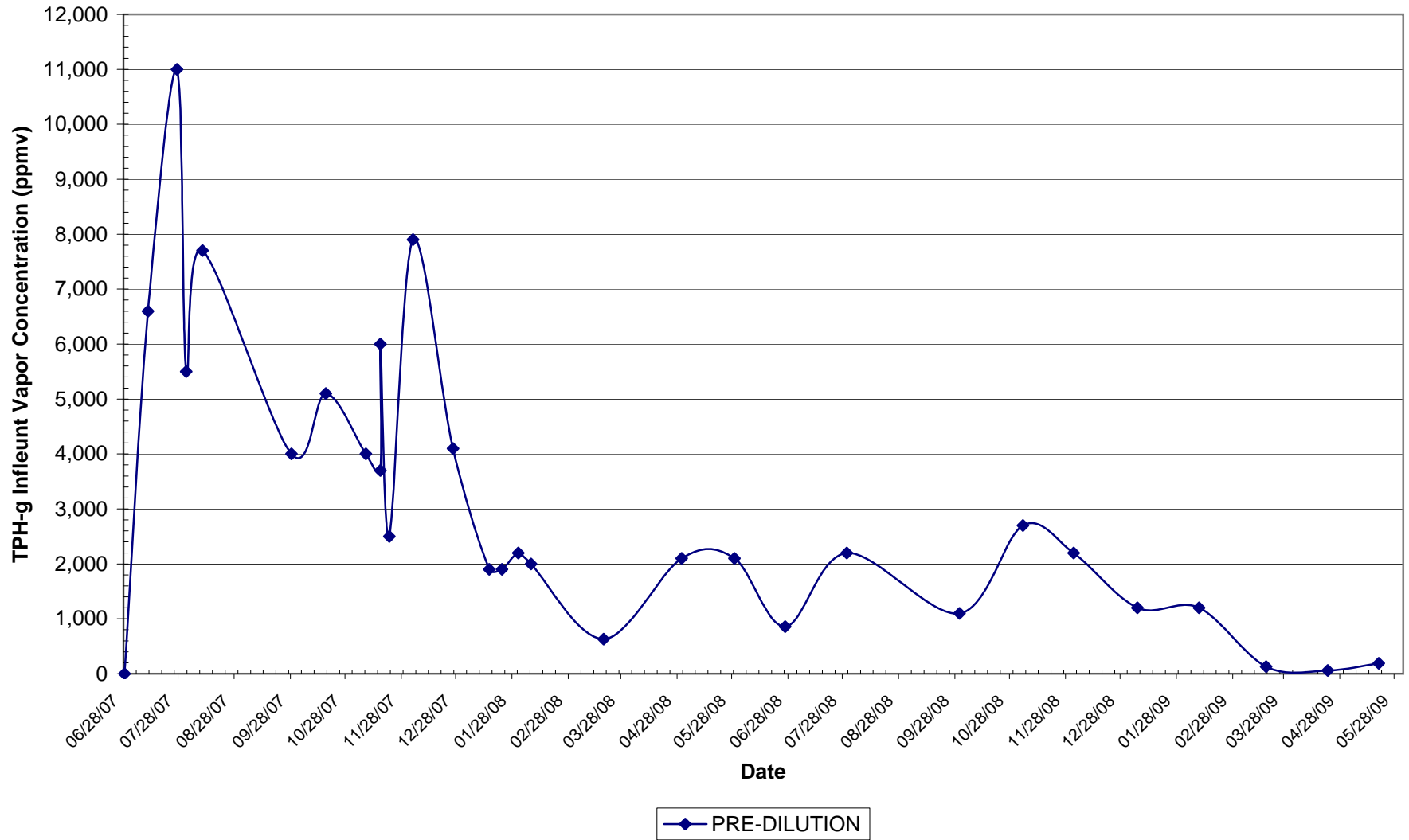
**FIGURE 6: EXTRACTION WELL INFLUENT CONCENTRATIONS OVER TIME**

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



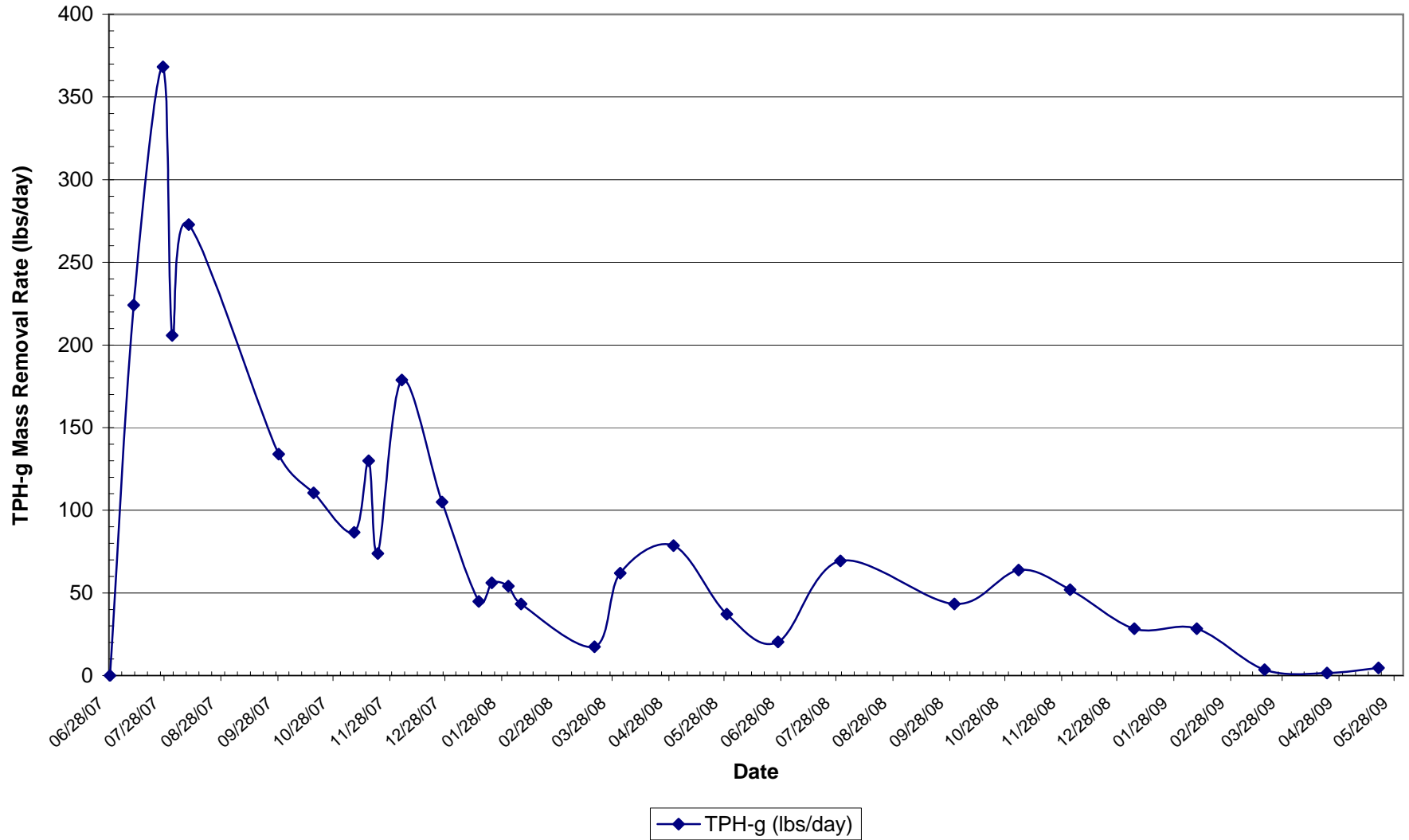
**FIGURE 7: COMBINED SYSTEM INFLUENT CONCENTRATIONS OVER TIME**

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



**FIGURE 8: HYDROCARBON MASS REMOVAL RATES BASED ON LAB DATA**

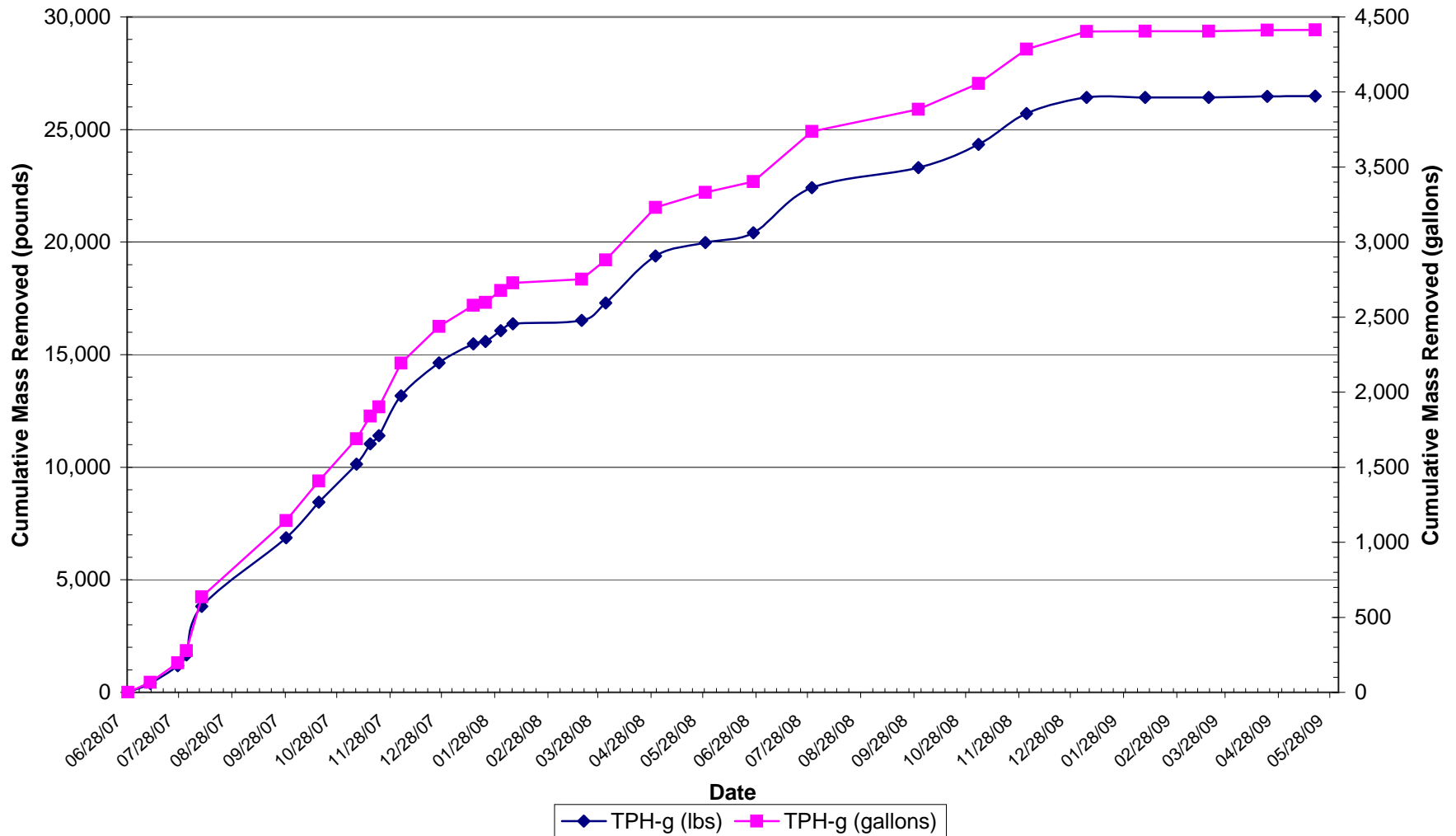
Vic's Auto, 245 8th Street, Oakland, California





**FIGURE 9: CUMULATIVE HYDROCARBON MASS REMOVED BASED ON LAB DATA**

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



## **TABLES**

**TABLE 1: GROUNDWATER ELEVATION DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | TOC Well <sup>1,2</sup><br>Elevation<br>(ft amsl) | Depth to <sup>3</sup><br>Water<br>(ft) | Groundwater <sup>4</sup><br>Elevation<br>(ft amsl) | Depth to<br>LNAPL<br>(ft) | Apparent<br>LNAPL<br>Thickness<br>(ft) |   |
|---------------------------------|-------------------|---|--|--|---------------------------|--|---|
| MW-1<br>(8-28)                  | 06/29/01          | 27.73   | 16.52                                  | 11.21  | 14.89                     | 1.63                                   |   |
|                                 | 10/10/01          | 27.73   | 15.45                                  | 12.28  | 15.37                     | 0.08                                   |   |
|                                 | 01/09/02          | 27.73   | 12.61                                  | 15.12  | -                         | <0.01                                  |   |
|                                 | 04/24/02          | 27.73   | 13.35                                  | 14.38  | -                         | <0.01                                  |   |
|                                 | 07/24/02          | 27.73   | 14.19                                  | 13.54  | -                         | <0.01                                  |   |
|                                 | 11/05/02          | 27.73   | 14.85                                  | 12.88  | -                         | <0.01                                  |   |
|                                 | 02/04/03          | 27.73   | 14.91                                  | 12.82  | -                         | <0.01                                  |   |
|                                 | 05/02/03          | 27.73   | 14.43                                  | 13.30  | -                         | 0.08                                   |   |
|                                 | 08/04/03          | 27.73   | 15.24                                  | 12.49  | 15.01                     | 0.23                                   |   |
|                                 | 11/03/03          | 27.73   | 16.94                                  | 10.79  | 15.67                     | 1.27                                   |   |
|                                 | 02/09/04          | 27.73   | 14.61                                  | 13.12  | 14.43                     | 0.18                                   |   |
|                                 | 05/10/04          | 27.73   | Obstructed                             | -  | -                         | -                                      | - |
|                                 | 08/09/04          | 27.73   | 15.24                                  | 12.49  | 15.03                     | 0.21                                   |   |
|                                 | 11/09/04          | 27.73   | 15.95                                  | 11.78  | 15.71                     | 0.24                                   |   |
|                                 | 02/03/05          | 32.55   | 13.75                                  | 18.80  | 13.58                     | 0.17                                   |   |
|                                 | 05/09/05          | 32.55   | 13.93                                  | 18.62  | 13.81                     | 0.12                                   |   |
|                                 | 08/05/05          | 32.55   | 15.40                                  | 17.15  | 15.39                     | 0.01                                   |   |
|                                 | 11/09/05          | 32.55   | 15.76                                  | 16.79  | 15.75                     | 0.01                                   |   |
|                                 | 02/09/06          | 32.55   | 13.52                                  | 19.03  | 13.50                     | 0.02                                   |   |
|                                 | 05/04/06          | 32.55   | 12.47                                  | 20.08  | 12.46                     | 0.01                                   |   |
|                                 | 08/04/06          | 32.55   | 15.11                                  | 17.44  | 15.09                     | 0.02                                   |   |
|                                 | 11/08/06          | 32.55   | 16.03                                  | 16.52  | 16.02                     | 0.01                                   |   |
|                                 | 02/08/07          | 32.55   | 16.51                                  | 16.04  | 16.48                     | 0.03                                   |   |
|                                 | 05/29/07          | 32.55   | 15.56                                  | 16.99  | 15.51                     | 0.05                                   |   |
|                                 | 09/05/07          | 32.55   | 16.33                                  | 16.22  | -                         | Sheen                                  |   |
|                                 | 12/12/07          | 32.55   | 17.62                                  | 14.93  | -                         | Sheen                                  |   |
|                                 | 02/13/08          | 32.55   | 15.94                                  | 16.61  | -                         | Sheen                                  |   |
|                                 | 05/15/08          | 32.55   | 16.64                                  | 15.91  | -                         | -                                      |   |
|                                 | 08/05/08          | 32.55   | 16.99                                  | 15.56  | -                         | -                                      |   |
|                                 | 11/07/08          | 32.55   | 17.40                                  | 15.15  | -                         | -                                      |   |
| 02/05/09                        | 32.55             | 16.89   | 15.66                                  | -  | -                         |  |   |
| <b>05/05/09</b>                 | <b>32.55</b>      | <b>15.69</b>                                      | <b>16.86</b>                           | -  | -                         |  |   |
| MW-2<br>(8-28)                  | 06/29/01          | 28.16   | 16.14                                  | 12.02  | -                         | -                                      |   |
|                                 | 10/10/01          | 28.16   | 16.43                                  | 11.73  | -                         | -                                      |   |
|                                 | 01/09/02          | 28.16   | 13.50                                  | 14.66  | -                         | -                                      |   |
|                                 | 04/24/02          | 28.16   | 14.40                                  | 13.76  | -                         | -                                      |   |
|                                 | 07/24/02          | 28.16   | 14.91                                  | 13.25  | -                         | -                                      |   |
|                                 | 11/05/02          | 28.16   | 16.96                                  | 11.20  | -                         | -                                      |   |
|                                 | 02/04/03          | 28.16   | 15.42                                  | 12.74  | -                         | -                                      |   |
|                                 | 05/02/03          | 28.16   | 15.24                                  | 12.92  | -                         | -                                      |   |
|                                 | 08/04/03          | 28.16   | 15.98                                  | 12.18  | -                         | -                                      |   |
|                                 | 11/03/03          | 28.16   | 16.60                                  | 11.56  | -                         | Sheen                                  |   |
|                                 | 02/09/04          | 28.16   | 15.22                                  | 12.94  | -                         | Sheen                                  |   |
|                                 | 05/10/04          | 28.16   | 15.34                                  | 12.82  | -                         | Sheen                                  |   |
|                                 | 08/09/04          | 28.16   | 15.92                                  | 12.24  | -                         | Sheen                                  |   |
|                                 | 11/09/04          | 28.16   | 16.51                                  | 11.65  | -                         | Sheen                                  |   |
|                                 | 02/03/05          | 33.24   | 14.44                                  | 18.80  | -                         | Sheen                                  |   |
|                                 | 05/09/05          | 33.24   | 14.67                                  | 18.57  | -                         | Sheen                                  |   |
|                                 | 08/05/05          | 33.24   | 16.27                                  | 16.97  | -                         | Sheen                                  |   |
|                                 | 11/09/05          | 33.24   | 16.53                                  | 16.71  | -                         | Sheen                                  |   |
| 02/09/06                        | 33.24             | 14.36   | 18.88                                  | -  | Sheen                     |  |   |
| 05/04/06                        | 33.24             | 13.46   | 19.78                                  | -  | Sheen                     |  |   |
| 08/04/06                        | 33.24             | 15.95   | 17.29                                  | -  | Sheen                     |  |   |

**TABLE 1: GROUNDWATER ELEVATION DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected       | TOC Well <sup>1,2</sup><br>Elevation<br>(ft amsl) | Depth to <sup>3</sup><br>Water<br>(ft) | Groundwater <sup>4</sup><br>Elevation<br>(ft amsl) | Depth to<br>LNAPL<br>(ft) | Apparent<br>LNAPL<br>Thickness<br>(ft) |
|---------------------------------|-------------------------|---|--|--|---------------------------|--|
| <b>MW-2<br/>cont.</b>           | 11/08/06                | 33.24   | 16.86                                  | 16.38  | -                         | Sheen                                  |
|                                 | 02/08/07                | 33.24   | 17.13                                  | 16.11  | -                         | Sheen                                  |
|                                 | 05/29/07                | 33.24   | 16.51                                  | 16.73  | -                         | Sheen                                  |
|                                 | 09/05/07                | 33.24   | 17.48                                  | 15.76  | -                         | -                                      |
|                                 | 12/12/07                | 33.24   | 18.72                                  | 14.52  | -                         | -                                      |
|                                 | 02/13/08                | 33.24   | 16.91                                  | 16.33  | -                         | -                                      |
|                                 | 05/15/08                | 33.24   | 17.67                                  | 15.57  | -                         | -                                      |
|                                 | 08/05/08                | 33.24   | 17.94                                  | 15.30  | -                         | -                                      |
|                                 | 11/07/08                | 33.24   | 18.79                                  | 14.45  | -                         | -                                      |
|                                 | 02/05/09                | 33.24   | 17.98                                  | 15.26  | -                         | -                                      |
|                                 | <b>05/05/09</b>         | <b>33.24</b>                                      | <b>17.52</b>                           | <b>15.72</b>                                       | -                         | -                                      |
|                                 | <b>MW-3<br/>(10-25)</b> | 06/29/01  | 29.21                                  | 16.60  | 12.61                     | -                                      |
| 10/10/01                        |                         | 29.21   | 16.92                                  | 12.29  | -                         | -                                      |
| 01/09/02                        |                         | 29.21   | 14.20                                  | 15.01  | -                         | -                                      |
| 04/24/02                        |                         | 29.21   | 15.07                                  | 14.14  | -                         | -                                      |
| 07/24/02                        |                         | 29.21   | 16.40                                  | 12.81  | -                         | -                                      |
| 11/05/02                        |                         | 29.21   | 16.47                                  | 12.74  | -                         | -                                      |
| 02/04/03                        |                         | 29.21   | 16.92                                  | 12.29  | -                         | -                                      |
| 05/02/03                        |                         | 29.21   | 15.45                                  | 13.76  | -                         | -                                      |
| 08/04/03                        |                         | 29.21   | 16.46                                  | 12.75  | -                         | -                                      |
| 11/03/03                        |                         | 29.21   | 17.15                                  | 12.06  | -                         | -                                      |
| 02/09/04                        |                         | 29.21   | 15.78                                  | 13.43  | -                         | -                                      |
| 05/10/04                        |                         | 29.21   | 15.77                                  | 13.44  | -                         | -                                      |
| 08/09/04                        |                         | 29.21   | 16.45                                  | 12.76  | -                         | -                                      |
| 11/09/04                        |                         | 29.21   | 17.26                                  | 11.95  | -                         | -                                      |
| 02/03/05                        |                         | 34.25   | 15.92                                  | 18.33  | -                         | -                                      |
| 05/09/05                        |                         | 34.25   | 15.03                                  | 19.22  | -                         | -                                      |
| 08/05/05                        |                         | 34.25   | 16.59                                  | 17.66  | -                         | -                                      |
| 11/09/05                        |                         | 34.25   | 16.82                                  | 17.43  | -                         | -                                      |
| 02/09/06                        |                         | 34.25   | 14.65                                  | 19.60  | -                         | -                                      |
| 05/04/06                        |                         | 34.25   | 13.61                                  | 20.64  | -                         | -                                      |
| 08/04/06                        |                         | 34.25   | 16.28                                  | 17.97  | -                         | -                                      |
| 11/08/06                        |                         | 34.25   | 17.28                                  | 16.97  | -                         | -                                      |
| 02/08/07                        |                         | 34.25   | 17.68                                  | 16.57  | -                         | -                                      |
| 05/29/07                        |                         | 34.25   | 17.37                                  | 16.88  | -                         | -                                      |
| 09/05/07                        |                         | 34.25   | 18.53                                  | 15.72  | -                         | -                                      |
| 12/12/07                        |                         | 34.25   | 19.61                                  | 14.64  | -                         | -                                      |
| 02/13/08                        |                         | 34.25   | 18.12                                  | 16.13  | -                         | -                                      |
| 05/15/08                        |                         | 34.25   | 18.64                                  | 15.61  | -                         | -                                      |
| 08/05/08                        | 34.25                   | 18.88   | 15.37                                  | -  | -                         |  |
| 11/07/08                        | 34.25                   | 19.60   | 14.65                                  | -  | -                         |  |
| 02/05/09                        | 34.25                   | 19.02   | 15.23                                  | -  | -                         |  |
| <b>05/05/09</b>                 | <b>34.25</b>            | <b>17.78</b>                                      | <b>16.47</b>                           | -  | -                         |  |
| <b>MW-4<br/>(10-25)</b>         | 06/29/01                | 29.38   | 17.71                                  | 11.67  | -                         | -                                      |
|                                 | 10/10/01                | 29.38   | 18.00                                  | 11.38  | -                         | -                                      |
|                                 | 01/09/02                | 29.38   | 15.02                                  | 14.36  | -                         | -                                      |
|                                 | 04/24/02                | 29.38   | 15.74                                  | 13.64  | -                         | -                                      |
|                                 | 07/24/02                | 29.38   | 16.69                                  | 12.69  | -                         | -                                      |
|                                 | 11/05/02                | 29.38   | 17.64                                  | 11.74  | -                         | -                                      |
|                                 | 02/04/03                | 29.38   | 16.02                                  | 13.36  | -                         | -                                      |
|                                 | 05/02/03                | 29.38   | 16.72                                  | 12.66  | -                         | -                                      |
|                                 | 08/04/03                | 29.38   | 17.51                                  | 11.87  | -                         | -                                      |
|                                 | 11/03/03                | 29.38   | 18.09                                  | 11.29  | -                         | -                                      |
|                                 | 02/09/04                | 29.38   | 16.67                                  | 12.71  | -                         | -                                      |

**TABLE 1: GROUNDWATER ELEVATION DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | TOC Well <sup>1,2</sup><br>Elevation<br>(ft amsl) | Depth to <sup>3</sup><br>Water<br>(ft) | Groundwater <sup>4</sup><br>Elevation<br>(ft amsl) | Depth to<br>LNAPL<br>(ft) | Apparent<br>LNAPL<br>Thickness<br>(ft) |
|---------------------------------|-------------------|---|--|--|---------------------------|--|
| <b>MW-4</b><br><b>cont.</b>     | 05/10/04          | 29.38   | 16.89                                  | 12.49  | -                         | -                                      |
|                                 | 08/09/04          | 29.38   | 17.44                                  | 11.94  | -                         | -                                      |
|                                 | 11/09/04          | 29.38   | 17.89                                  | 11.49  | -                         | -                                      |
|                                 | 02/03/05          | 34.42   | 14.98                                  | 19.44  | -                         | -                                      |
|                                 | 05/09/05          | 34.42   | 16.20                                  | 18.22  | -                         | -                                      |
|                                 | 08/05/05          | 34.42   | 17.73                                  | 16.69  | -                         | -                                      |
|                                 | 11/09/05          | 34.42   | 17.91                                  | 16.51  | -                         | -                                      |
|                                 | 02/09/06          | 34.42   | 15.62                                  | 18.80  | -                         | -                                      |
|                                 | 05/04/06          | 34.42   | 15.12                                  | 19.30  | -                         | -                                      |
|                                 | 08/04/06          | 34.42   | 17.39                                  | 17.03  | -                         | -                                      |
|                                 | 11/08/06          | 34.42   | 18.30                                  | 16.12  | -                         | -                                      |
|                                 | 02/08/07          | 34.42   | 18.57                                  | 15.85  | -                         | -                                      |
|                                 | 05/29/07          | 34.42   | 18.29                                  | 16.13  | -                         | -                                      |
|                                 | 09/05/07          | 34.42   | 19.27                                  | 15.15  | -                         | -                                      |
|                                 | 12/12/07          | 34.42   | 20.44                                  | 13.98  | -                         | -                                      |
|                                 | 02/13/08          | 34.42   | 18.52                                  | 15.90  | -                         | -                                      |
|                                 | 05/15/08          | 34.42   | 19.42                                  | 15.00  | -                         | -                                      |
|                                 | 08/05/08          | 34.42   | 19.67                                  | 14.75  | -                         | -                                      |
|                                 | 11/07/08          | 34.42   | 20.42                                  | 14.00  | -                         | -                                      |
|                                 | 02/05/09          | 34.42   | 19.72                                  | 14.70  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>34.42</b>                                      | <b>18.51</b>                           | <b>15.91</b>                                       | -                         | -                                      |
| <b>MW-5</b><br>(12-22)          | 02/03/05          | 33.33   | 14.23                                  | 19.10  | -                         | -                                      |
|                                 | 05/09/05          | 33.33   | 14.33                                  | 19.00  | -                         | -                                      |
|                                 | 08/05/05          | 33.33   | 15.89                                  | 17.44  | -                         | -                                      |
|                                 | 11/09/05          | 33.33   | 16.18                                  | 17.15  | -                         | -                                      |
|                                 | 02/09/06          | 33.33   | 14.02                                  | 19.31  | -                         | -                                      |
|                                 | 05/04/06          | 33.33   | 12.97                                  | 20.36  | -                         | -                                      |
|                                 | 08/04/06          | 33.33   | 15.63                                  | 17.70  | -                         | -                                      |
|                                 | 11/08/06          | 33.33   | 16.55                                  | 16.78  | -                         | -                                      |
|                                 | 02/08/07          | 33.33   | 16.12                                  | 17.21  | -                         | -                                      |
|                                 | 05/29/07          | 33.33   | 15.87                                  | 17.46  | -                         | -                                      |
|                                 | 09/05/07          | 33.33   | 16.95                                  | 16.38  | -                         | -                                      |
|                                 | 12/12/07          | 33.33   | 18.13                                  | 15.20  | -                         | -                                      |
|                                 | 02/13/08          | 33.33   | 16.58                                  | 16.75  | -                         | -                                      |
|                                 | 05/15/08          | 33.33   | 17.08                                  | 16.25  | -                         | -                                      |
|                                 | 08/05/08          | 33.33   | 17.42                                  | 15.91  | -                         | -                                      |
|                                 | 11/07/08          | 33.33   | 17.99                                  | 15.34  | -                         | -                                      |
| 02/05/09                        | 33.33             | 17.42   | 15.91                                  | -  | -                         |  |
|                                 | <b>05/05/09</b>   | <b>33.33</b>                                      | <b>16.20</b>                           | <b>17.13</b>                                       | -                         | -                                      |
| <b>MW-6</b><br>(12-22)          | 02/03/05          | 32.82   | 13.99                                  | 18.83  | -                         | Sheen                                  |
|                                 | 05/09/05          | 32.82   | 13.61                                  | 19.21  | -                         | Sheen                                  |
|                                 | 08/05/05          | 32.82   | 15.50                                  | 17.32  | 15.13                     | 0.37                                   |
|                                 | 11/09/05          | 32.82   | 15.87                                  | 16.95  | 15.50                     | 0.37                                   |
|                                 | 02/09/06          | 32.82   | 13.93                                  | 18.89  | 13.22                     | 0.71                                   |
|                                 | 05/04/06          | 32.82   | 12.88                                  | 19.94  | 12.13                     | 0.75                                   |
|                                 | 08/04/06          | 32.82   | 15.22                                  | 17.60  | 14.81                     | 0.41                                   |
|                                 | 11/08/06          | 32.82   | 16.16                                  | 16.66  | 15.78                     | 0.38                                   |
|                                 | 02/08/07          | 32.82   | 15.48                                  | 17.34  | 15.14                     | 0.34                                   |
|                                 | 05/29/07          | 32.82   | 15.35                                  | 17.47  | 15.04                     | 0.31                                   |
|                                 | 09/05/07          | 32.82   | 15.55                                  | 17.27  | -                         | -                                      |
|                                 | 12/12/07          | 32.82   | 17.22                                  | 15.60  | -                         | Sheen                                  |
|                                 | 02/13/08          | 32.82   | 15.54                                  | 17.28  | -                         | Sheen                                  |
|                                 | 05/15/08          | 32.82   | 16.25                                  | 16.57  | -                         | -                                      |

**TABLE 1: GROUNDWATER ELEVATION DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | TOC Well <sup>1,2</sup><br>Elevation<br>(ft amsl) | Depth to <sup>3</sup><br>Water<br>(ft) | Groundwater <sup>4</sup><br>Elevation<br>(ft amsl) | Depth to<br>LNAPL<br>(ft) | Apparent<br>LNAPL<br>Thickness<br>(ft) |
|---------------------------------|-------------------|---|--|--|---------------------------|--|
| <b>MW-6</b><br>cont.            | 08/05/08          | 32.82   | 16.48                                  | 16.34  | -                         | -                                      |
|                                 | 11/07/08          | 32.82   | 17.33                                  | 15.49  | -                         | -                                      |
|                                 | 02/05/09          | 32.82   | 16.53                                  | 16.29  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>32.82</b>                                      | <b>15.46</b>                           | <b>17.36</b>                                       | -                         | -                                      |
| <b>MW-7</b><br>(12-22)          | 02/03/05          | 33.07   | 14.17                                  | 18.90  | -                         | Sheen                                  |
|                                 | 05/09/05          | 33.07   | 14.47                                  | 18.60  | 14.44                     | 0.03                                   |
|                                 | 08/05/05          | 33.07   | 16.07                                  | 17.00  | 16.02                     | 0.05                                   |
|                                 | 11/09/05          | 33.07   | 16.47                                  | 16.60  | 16.35                     | 0.12                                   |
|                                 | 02/09/06          | 33.07   | 14.18                                  | 18.89  | 14.11                     | 0.07                                   |
|                                 | 05/04/06          | 33.07   | 13.12                                  | 19.95  | 13.11                     | 0.01                                   |
|                                 | 08/04/06          | 33.07   | 15.74                                  | 17.33  | -                         | Sheen                                  |
|                                 | 11/08/06          | 33.07   | 16.59                                  | 16.48  | -                         | Sheen                                  |
|                                 | 02/08/07          | 33.07   | 16.23                                  | 16.84  | -                         | Sheen                                  |
|                                 | 05/29/07          | 33.07   | 16.13                                  | 16.94  | -                         | Sheen                                  |
|                                 | 09/05/07          | 33.07   | 16.40                                  | 16.67  | -                         | Sheen                                  |
|                                 | 12/12/07          | 33.07   | 18.02                                  | 15.05  | -                         | Sheen                                  |
|                                 | 02/13/08          | 33.07   | 16.27                                  | 16.80  | -                         | Sheen                                  |
|                                 | 05/15/08          | 33.07   | 17.01                                  | 16.06  | -                         | -                                      |
|                                 | 08/05/08          | 33.07   | 17.23                                  | 15.84  | -                         | -                                      |
|                                 | 11/07/08          | 33.07   | 18.18                                  | 14.89  | -                         | -                                      |
|                                 | 02/05/09          | 33.07   | 17.26                                  | 15.81  | -                         | -                                      |
| <b>05/05/09</b>                 | <b>33.07</b>      | <b>16.13</b>                                      | <b>16.94</b>                           | -  | -                         |  |
| <b>MW-8</b><br>(12-22)          | 05/15/08          | 33.00   | 16.47                                  | 16.53  | -                         | -                                      |
|                                 | 08/05/08          | 33.00   | 16.88                                  | 16.12  | -                         | -                                      |
|                                 | 11/07/08          | 33.00   | 17.28                                  | 15.72  | -                         | -                                      |
|                                 | 02/05/09          | 33.00   | 16.78                                  | 16.22  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>33.00</b>                                      | <b>16.05</b>                           | <b>16.95</b>                                       | -                         | -                                      |
| <b>MW-9</b><br>(12-22)          | 05/15/08          | 32.00   | 15.16                                  | 16.84  | -                         | -                                      |
|                                 | 08/05/08          | 32.00   | 15.38                                  | 16.62  | -                         | -                                      |
|                                 | 11/07/08          | 32.00   | 15.84                                  | 16.16  | -                         | -                                      |
|                                 | 02/05/09          | 32.00   | 15.38                                  | 16.62  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>32.00</b>                                      | <b>14.38</b>                           | <b>17.62</b>                                       | -                         | -                                      |
| <b>MW-10</b><br>(12-22)         | 02/03/05          | 31.17   | 12.65                                  | 18.52  | -                         | -                                      |
|                                 | 05/09/05          | 31.17   | 13.09                                  | 18.08  | -                         | -                                      |
|                                 | 08/05/05          | 31.17   | 14.68                                  | 16.49  | -                         | -                                      |
|                                 | 11/09/05          | 31.17   | 14.94                                  | 16.23  | -                         | -                                      |
|                                 | 02/09/06          | 31.17   | 12.82                                  | 18.35  | -                         | -                                      |
|                                 | 05/04/06          | 31.17   | 12.11                                  | 19.06  | -                         | -                                      |
|                                 | 08/04/06          | 31.17   | 14.38                                  | 16.79  | -                         | -                                      |
|                                 | 11/08/06          | 31.17   | 15.32                                  | 15.85  | -                         | -                                      |
|                                 | 02/08/07          | 31.17   | 15.59                                  | 15.58  | -                         | -                                      |
|                                 | 05/29/07          | 31.17   | 15.27                                  | 15.90  | -                         | -                                      |
|                                 | 09/05/07          | 31.17   | 16.25                                  | 14.92  | -                         | -                                      |
|                                 | 12/12/07          | 31.17   | 17.75                                  | 13.42  | -                         | Sheen                                  |
|                                 | 02/13/08          | 31.17   | 15.59                                  | 15.58  | -                         | -                                      |
|                                 | 05/15/08          | 31.17   | 16.40                                  | 14.77  | -                         | -                                      |
|                                 | 08/05/08          | 31.17   | 16.67                                  | 14.50  | -                         | -                                      |
|                                 | 11/07/08          | 31.17   | nm                                     | -  | -                         | -                                      |
|                                 | 02/05/09          | 31.17   | nm                                     | -  | -                         | -                                      |
| <b>05/05/09</b>                 | <b>31.17</b>      | <b>nm</b>   | -                                      | -  | -                         |  |

**TABLE 1: GROUNDWATER ELEVATION DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | TOC Well <sup>1,2</sup><br>Elevation<br>(ft amsl) | Depth to <sup>3</sup><br>Water<br>(ft) | Groundwater <sup>4</sup><br>Elevation<br>(ft amsl) | Depth to<br>LNAPL<br>(ft) | Apparent<br>LNAPL<br>Thickness<br>(ft) |
|---------------------------------|-------------------|---|--|--|---------------------------|--|
| MW-11<br>(12-22)                | 02/03/05          | 31.78   | 13.39                                  | 18.39  | -                         | Sheen                                  |
|                                 | 05/09/05          | 31.78   | 13.89                                  | 17.89  | -                         | Sheen                                  |
|                                 | 08/05/05          | 31.78   | 15.47                                  | 16.31  | -                         | Sheen                                  |
|                                 | 11/09/05          | 31.78   | 15.73                                  | 16.05  | -                         | Sheen                                  |
|                                 | 02/09/06          | 31.78   | 13.53                                  | 18.25  | -                         | Sheen                                  |
|                                 | 05/04/06          | 31.78   | 12.73                                  | 19.05  | -                         | Sheen                                  |
|                                 | 08/04/06          | 31.78   | 15.17                                  | 16.61  | -                         | Sheen                                  |
|                                 | 11/08/06          | 31.78   | 16.15                                  | 15.63  | -                         | -                                      |
|                                 | 02/08/07          | 31.78   | 16.36                                  | 15.42  | -                         | Sheen                                  |
|                                 | 05/29/07          | 31.78   | 16.06                                  | 15.72  | -                         | Sheen                                  |
|                                 | 09/05/07          | 31.78   | 17.03                                  | 14.75  | -                         | Sheen                                  |
|                                 | 12/12/07          | 31.78   | 18.68                                  | 13.10  | -                         | -                                      |
|                                 | 02/13/08          | 31.78   | 16.28                                  | 15.50  | -                         | -                                      |
|                                 | 05/15/08          | 31.78   | 17.12                                  | 14.66  | -                         | -                                      |
|                                 | 08/05/08          | 31.78   | 17.33                                  | 14.45  | -                         | -                                      |
|                                 | 11/07/08          | 31.78   | nm                                     | -  | -                         | -                                      |
|                                 | 02/05/09          | 31.78   | nm                                     | -  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>31.78</b>                                      | <b>nm</b>                              | -  | -                         | -                                      |
| MW-12<br>(12-22)                | 02/03/05          | 32.05   | 13.70                                  | 18.35  | -                         | Sheen                                  |
|                                 | 05/09/05          | 32.05   | 14.17                                  | 17.88  | -                         | Sheen                                  |
|                                 | 08/05/05          | 32.05   | 15.69                                  | 16.36  | -                         | Sheen                                  |
|                                 | 11/09/05          | 32.05   | 15.93                                  | 16.12  | -                         | Sheen                                  |
|                                 | 02/09/06          | 32.05   | 13.78                                  | 18.27  | -                         | Sheen                                  |
|                                 | 05/04/06          | 32.05   | 12.98                                  | 19.07  | -                         | Sheen                                  |
|                                 | 08/04/06          | 32.05   | 15.39                                  | 16.66  | -                         | Sheen                                  |
|                                 | 11/08/06          | 32.05   | 16.29                                  | 15.76  | -                         | -                                      |
|                                 | 02/08/07          | 32.05   | 16.54                                  | 15.51  | -                         | -                                      |
|                                 | 05/29/07          | 32.05   | 16.27                                  | 15.78  | -                         | -                                      |
|                                 | 09/05/07          | 32.05   | 17.24                                  | 14.81  | -                         | -                                      |
|                                 | 12/12/07          | 32.02   | 18.65                                  | 13.37  | -                         | -                                      |
|                                 | 02/14/08          | 32.02   | 16.50                                  | 15.52  | -                         | -                                      |
|                                 | 05/15/08          | 32.02   | 17.34                                  | 14.68  | -                         | -                                      |
|                                 | 08/05/08          | 32.02   | 17.61                                  | 14.41  | -                         | -                                      |
|                                 | 11/07/08          | 32.02   | nm                                     | -  | -                         | -                                      |
|                                 | 02/05/09          | 32.02   | nm                                     | -  | -                         | -                                      |
|                                 | <b>05/05/09</b>   | <b>32.02</b>                                      | <b>nm</b>                              | -  | -                         | -                                      |
| MW-13<br>(12-22)                | 05/15/08          | 32.00   | 14.87                                  | 17.13  | -                         | -                                      |
|                                 | 08/05/08          | 32.00   | 15.10                                  | 16.90  | -                         | -                                      |
|                                 | 11/07/08          | 32.00   | 15.61                                  | 16.39  | -                         | -                                      |
|                                 | 02/05/09          | 32.00   | 15.09                                  | 16.91  | -                         | -                                      |
|                                 |                   | <b>05/05/09</b>                                   | <b>32.00</b>                           | <b>14.09</b>                                       | <b>17.91</b>              | -                                      |

**NOTES:**

- not applicable

ft = feet

ft amsl = feet above mean sea level

nm = not measured

LNAPL = light non-aqueous phase liquid (i.e., free product)

Red = Assumed elevation, awaiting final survey pending installation of proposed monitoring wells MW-14, MW-15, and MW-16

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) Depth water is measured from the top of the well casing

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

5)

**TABLE 2: GROUNDWATER FLOW SUMMARY**

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

| Episode #  | Date            | Average Groundwater Elevation <sup>1</sup> (ft amsl) | Change from Previous Episode (ft) | Flow direction (gradient) |
|------------|-----------------|--|-----------------------------------|---------------------------|
| 1          | 06/29/01        | 12.10  | -                                 | SSE (0.0074)              |
| 2          | 10/10/01        | 11.80  | -0.30                             | SSE (0.0071)              |
| 3          | 01/09/02        | 14.68  | 2.88                              | SE (0.0054)               |
| 4          | 04/24/02        | 13.85  | -0.83                             | SSW (0.005)               |
| 5          | 07/24/02        | 12.92  | -0.93                             | NE (0.021)                |
| 6          | 11/05/02        | 11.89  | -1.02                             | SW (0.019)                |
| 7          | 02/04/03        | 12.80  | 0.90                              | NNW (0.01)                |
| 8          | 05/02/03        | 13.11  | 0.32                              | SSE (0.01)                |
| 9          | 08/04/03        | 12.27  | -0.85                             | SSE(0.007)                |
| 10         | 11/03/03        | 11.64  | -0.63                             | SSE (0.006)               |
| 11         | 02/09/04        | 13.03  | 1.39                              | SSE (0.006)               |
| 12         | 05/10/04        | 12.92  | -0.11                             | SSE (0.008)               |
| 13         | 08/09/04        | 12.31  | -0.60                             | SSE (0.006)               |
| 14         | 11/09/04        | 11.70  | -0.62                             | SSE (0.004)               |
| 15         | 02/03/05        | 18.75  | -                                 | W (0.007)                 |
| 16         | 05/09/05        | 18.53  | -0.22                             | S (0.010)                 |
| 17         | 08/05/05        | 16.94  | -1.59                             | S (0.010)                 |
| 18         | 11/09/05        | 16.65  | -0.28                             | S (0.010)                 |
| 19         | 02/09/06        | 18.83  | 2.17                              | SSW (0.010)               |
| 20         | 05/04/06        | 19.72  | 0.90                              | SSW (0.012)               |
| 21         | 08/04/06        | 17.24  | -2.48                             | SSW (0.010)               |
| 22         | 11/08/06        | 16.32  | -0.93                             | SSW(0.0007)               |
| 23         | 02/08/07        | 16.25  | -0.07                             | SSE (0.0009)              |
| 24         | 05/29/07        | 16.60  | 0.35                              | SSE (0.0009)              |
| 25*        | 09/05/07        | 15.77  | -0.84                             | -                         |
| 26*        | 12/12/07        | 14.38  | -1.38                             | -                         |
| 27*        | 02/13/08        | 16.24  | 1.86                              | -                         |
| 28*        | 05/15/08        | 15.81  | -0.43                             | -                         |
| 29*        | 08/05/08        | 15.54  | -0.27                             | -                         |
| 30*        | 11/07/08        | 15.22  | -0.32                             | -                         |
| 31*        | 02/05/09        | 15.86  | 0.64                              | -                         |
| <b>32*</b> | <b>05/05/09</b> | <b>16.89</b>   | <b>1.03</b>                       | -                         |

**NOTES:**

- not applicable

ft = feet

ft amsl = feet above mean sea level

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

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



**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-1<br>(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             | -              |
|                                 | 11/09/04          | 0.24                                   | 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             | -              |
|                                 | 05/09/05          | 0.12                                   | 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             | -              |
|                                 | 11/09/05          | 0.01                                   | 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             | -              |
|                                 | 05/04/06          | 0.01                                   | 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             | -              |
|                                 | 11/08/06          | 0.01                                   | 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             | -              |
|                                 | 05/29/07          | 0.05                                   | 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              | 110,00                                 | <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                       | -                 |                |
|                                 | <b>05/05/09</b>   | <b>0.00</b>                            | <b>44,000</b>   | <b>&lt;50*</b> | <b>1,300</b>      | <b>6,500</b>      | <b>1,300</b>                | <b>6,800</b>      | -              |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-----------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-2<br>(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 <sup>1</sup> | 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                         | -                 |                |
| <b>05/05/09</b>                 | <b>0.00</b>           | <b>570</b>                             | <b>8.6*</b>     | <b>22</b>      | <b>33</b>         | <b>9.2</b>        | <b>73</b>                   | <b>-</b>          |                |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-----------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-3<br>(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 <sup>1</sup> | 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           | 0.99              | <0.5              | <0.5                        | 0.68              | -              |
|                                 | 08/05/08              | 0.00                                   | 91              | <5.0           | 2.0               | 8.0               | 1.3                         | 8.0               | -              |
|                                 | 11/07/08              | 0.00                                   | 150             | <5.0           | 0.70              | 6.5               | 1.3                         | 26                | -              |
| 02/05/09                        | 0.00                  | <50                                    | <5.0            | 1.7            | <0.5              | <0.5              | <0.5                        | -                 |                |
| <b>05/05/09</b>                 | <b>0.00</b>           | <b>&lt;50</b>                          | <b>&lt;50</b>   | <b>&lt;5.0</b> | <b>&lt;0.5</b>    | <b>0.76</b>       | <b>&lt;0.5</b>              | <b>&lt;0.5</b>    | -              |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-4<br>(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                          | -                 |                |
| <b>05/05/09</b>                 | <b>0.00</b>       | <b>85</b>                              | <b>&lt;5.0</b>  | <b>&lt;5.0</b> | <b>1.2</b>        | <b>8.0</b>        | <b>2.5</b>                  | <b>19</b>         | -              |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L)  | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-----------------------|--|-----------------|-----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| <b>MW-5</b><br>(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               | -              |
|                                 | <b>05/05/09</b>       | <b>0.00</b>                            | <b>12,000</b>   | <b>&lt;5.0*</b> | <b>360</b>        | <b>1,300</b>      | <b>250</b>                  | <b>2,000</b>      | -              |
| <b>MW-6</b><br>(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 <sup>2</sup> | 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            | -              |
|                                 |                       | <b>05/05/09</b>                        | <b>0.00</b>     | <b>58,000</b>   | <b>&lt;50*</b>    | <b>560</b>        | <b>4,300</b>                | <b>2,400</b>      | <b>13,000</b>  |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-----------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| MW-7<br>(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               | -              |
| <b>05/05/09</b>                 | <b>0.00</b>           | <b>7,200</b>                           | <b>77*</b>      | <b>1,200</b>   | <b>1,200</b>      | <b>150</b>        | <b>860</b>                  | -                 |                |
| MW-8<br>(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           | 2.90              | 26.0              | 6.1                         | 86                | -              |
|                                 | 02/05/09              | 0.00                                   | <50             | <5.0           | 0.98              | 1.3               | <0.5                        | <0.5              | -              |
|                                 | <b>05/05/09</b>       | <b>0.00</b>                            | <b>94</b>       | <b>&lt;5.0</b> | <b>0.91</b>       | <b>7.1</b>        | <b>2.2</b>                  | <b>17</b>         | -              |
| MW-9<br>(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 <sup>2</sup> | 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             | -              |
|                                 | <b>05/05/09</b>       | <b>0.00</b>                            | <b>44,000</b>   | <b>730*</b>    | <b>14,000</b>     | <b>520</b>        | <b>1,900</b>                | <b>3,400</b>      | -              |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |
|---------------------------------|-----------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|
| <b>MW-10</b><br>(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 <sup>3</sup> | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              |
|                                 | 02/05/09              | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              |
| <b>05/05/09</b>                 | -                     | -                                      | -               | -              | -                 | -                 | -                           | -                 |                |
| <b>MW-11</b><br>(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 <sup>3</sup> | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              |
| 02/05/09                        | -                     | -                                      | -               | -              | -                 | -                 | -                           | -                 |                |
| <b>05/05/09</b>                 | -                     | -                                      | -               | -              | -                 | -                 | -                           | -                 |                |

**TABLE 3: GROUNDWATER SAMPLE ANALYTICAL DATA**

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

| Well ID<br>(screen<br>interval) | Date<br>Collected     | Apparent<br>LNAPL<br>Thickness<br>(ft) | TPH-g<br>(µg/L) | MTBE<br>(µg/L) | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethyl-<br>benzene<br>(µg/L) | Xylenes<br>(µg/L) | HVOC<br>(µg/L) |   |
|---------------------------------|-----------------------|--|-----------------|----------------|-------------------|-------------------|-----------------------------|-------------------|----------------|---|
| <b>MW-12</b><br>(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 <sup>3</sup> | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              | - |
|                                 | 02/05/09              | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              | - |
| <b>05/05/09</b>                 | -                     | -                                      | -               | -              | -                 | -                 | -                           | -                 | -              |   |
| <b>MW-13</b><br>(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              | -              |   |
|                                 | <b>05/05/09</b>       | <b>0.00</b>                            | <b>&lt;50</b>   | <b>&lt;5.0</b> | <b>0.53</b>       | <b>3.2</b>        | <b>1.1</b>                  | <b>7.5</b>        | -              |   |

**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

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

4)

5)



**TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA**

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 <sub>1</sub>       | 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 <sub>1</sub>       | 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            |
| <b>GP-1-5<sup>2</sup></b>  | <b>11/07/08</b> | <b>5</b>              | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| 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            |
| <b>GP-1-10<sup>2</sup></b> | <b>11/07/08</b> | <b>10</b>             | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| 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            |
| <b>GP-2-5<sup>2</sup></b>  | <b>11/07/08</b> | <b>5</b>              | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| 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                    | <1500         | <48          | <6.5            | <7.7            | <8.8                 | <27             | <96             | <14         | <25                |
| GP-2-10                    | 02/14/08        | 10                    | <1800         | <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            |
| <b>GP-2-10<sup>2</sup></b> | <b>11/07/08</b> | <b>10</b>             | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |

**TABLE 4: SOIL GAS SAMPLE ANALYTICAL DATA**

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 <sub>f</sub>         | 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                     | <1500         | <48          | <6.5            | <7.7            | <8.8                 | <27             | <96             | <14         | <25                |
| GP-3-5                       | 02/14/08        | 5                     | <1800         | <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            |
| <b>GP-3-5<sup>1,2</sup></b>  | <b>11/07/08</b> | <b>5</b>              | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| 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                    | <1500         | <48          | <6.5            | <7.7            | <8.8                 | <27             | <96             | <14         | -                  |
| GP-3-10                      | 02/14/08        | 10                    | <1800         | <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            |
| <b>GP-3-10<sup>1,2</sup></b> | <b>11/07/08</b> | <b>10</b>             | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| 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 <sub>f</sub>         | 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 <sub>f</sub>         | 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                     | <1500         | <48          | <6.5            | <7.7            | <8.8                 | <27             | <96             | <14         | <25                |
| GP-4-5D <sub>f</sub>         | 12/12/07        | 5                     | <1500         | <48          | <6.5            | <7.7            | <8.8                 | <27             | <96             | <14         | <25                |
| GP-4-5                       | 02/14/08        | 5                     | <1800         | <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            |
| <b>GP-4-5<sup>1,2</sup></b>  | <b>11/07/08</b> | <b>5</b>              | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| GP-4-10                      | 08/04/06        | 10                    | 564           | <4.1         | 6.1             | 17              | 5.7                  | 16              | 12              | <7.8        | <11                |
| GP-4-10D <sub>f</sub>        | 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 <sub>f</sub>        | 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            |
| <b>GP-4-10<sup>1,2</sup></b> | <b>11/07/08</b> | <b>10</b>             | -             | -            | -               | -               | -                    | -               | -               | -           | -                  |
| <b>ESLs</b>                  |                 |                       | <b>26,000</b> | <b>9,400</b> | <b>85</b>       | <b>63,000</b>   | <b>420,000</b>       | <b>150,000</b>  | <b>1.9E+07</b>  | <b>410</b>  | -                  |
| <b>CHHSLs</b>                |                 |                       | -             | <b>4,000</b> | <b>36.2</b>     | <b>135,000</b>  | <b>pp</b>            | <b>315,000</b>  | -               | <b>180</b>  | -                  |

**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<sub>f</sub> = after the probe/sample ID indicates a duplicate sample collected in the field

D<sub>i</sub> = 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

3)

4)

5)

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date     | Notes       | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)     | O2 (%)     | CO2 (%)    | TPH-g (ppmv) | MTBE (ppmv)       | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylenes (ppmv) |     |
|----------------|-----------------|-------------|------------------------|----------------------|-------------------------|------------|-------------|------------|------------|--------------|-------------------|----------------|----------------|---------------------|----------------|-----|
| MW-1S          | 08/10/07        | 1,2         | 100%                   | OFF                  | 21                      | -          | -           | -          | -          | 3,400        | ND<14             | 68             | 210            | 30                  | 160            |     |
|                | 09/28/07        |             | OFF                    | OFF                  | 20                      | -          | -           | -          | -          | -            | -                 | -              | -              | -                   | -              |     |
|                | 10/17/07        |             | 100%                   | 100%                 | 21                      | 0          | 0.0         | 20.9       | 0.0        | 0.0          | 380               | ND<14          | 26             | 58                  | 5.7            | 46  |
|                | 11/16/07        |             | 50%                    | 50%                  | 21                      | 2,800      | 0.5         | 20.7       | 0.5        | 0.5          | 3,200             | ND<14          | 69             | 220                 | 20             | 110 |
|                | 12/26/07        |             | 50%                    | 50%                  | 18                      | 3,000      | 1.5         | 20.7       | 0.4        | 0.4          | 3,900             | ND<27          | 79             | 210                 | 41             | 210 |
|                | 01/22/08        | 4           | 100%                   | OFF                  | 18                      | 160        | 0.0         | 19.7       | 0.3        | 660          | ND<14             | 5.8            | 23             | 2.7                 | 28             |     |
|                | 02/07/08        |             | OFF                    | OFF                  | 21.5                    | 0          | 0.0         | 20.9       | 0.0        | -            | -                 | -              | -              | -                   | -              |     |
|                | 03/18/08        |             | 100%                   | 100%                 | 14.5                    | 0          | xx          | 20.9       | 0.0        | 0.0          | 140               | ND<0.68        | 1.3            | 6.9                 | 0.78           | 6.9 |
|                | 04/30/08        |             | OFF                    | OFF                  | 18                      | 50         | 0           | 20.9       | 0.1        | 0.1          | 520               | 3.3            | 13             | 38                  | 6.7            | 53  |
|                | 05/29/08        |             | OFF                    | OFF                  | 19.5                    | -          | -           | -          | -          | -            | -                 | -              | -              | -                   | -              | -   |
|                | 06/26/08        | 7           | OFF                    | OFF                  | 23                      | -          | -           | -          | -          | -            | -                 | -              | -              | -                   | -              |     |
|                | 07/30/08        |             | OFF                    | OFF                  | 17                      | 310        | 0           | 18.3       | 1.1        | 1.1          | -                 | -              | -              | -                   | -              |     |
|                | 09/30/08        |             | OFF                    | 100%                 | 16.5                    | 5          | 0           | 20.9       | 0.4        | 0.4          | 65                | 0.71           | 0.44           | 2.2                 | 0.65           | 12  |
|                | 11/04/08        |             | 100%                   | 100%                 | 13                      | 4,250      | 1.5         | 12.6       | 2.9        | 2.9          | 3,100             | ND<180         | 63             | 140                 | 14             | 120 |
|                | 12/02/08        |             | 100%                   | 100%                 | 10                      | 2,710      | 0.5         | 20.3       | 0.9        | 0.9          | 3,300             | ND<14          | 57             | 150                 | 12             | 110 |
|                | 01/06/09        | 100%        | 100%                   | 12                   | 55                      | 0          | 20.9        | 0.0        | 0.0        | 35           | ND<0.68           | 3.6            | 5.6            | 0.22                | 1.8            |     |
|                | 02/09/09        | 100%        | 100%                   | 12                   | 15                      | 0          | 20.9        | 0.0        | 0.0        | 36           | ND<0.68           | 4.7            | 6.7            | 0.35                | 3.1            |     |
|                | 03/18/09        | 100%        | 100%                   | 10                   | 10                      | 0          | 20.9        | 0.3        | 0.3        | 120          | ND<1.0            | 1.8            | 9.6            | 0.69                | 4.2            |     |
|                | <b>04/21/09</b> | <b>100%</b> | <b>100%</b>            | <b>11</b>            | <b>10</b>               | <b>0</b>   | <b>20.4</b> | <b>0.2</b> | <b>0.2</b> | <b>42</b>    | <b>ND&lt;0.68</b> | <b>0.56</b>    | <b>2.3</b>     | <b>0.29</b>         | <b>1.9</b>     |     |
|                | <b>05/19/09</b> | <b>100%</b> | <b>100%</b>            | <b>11.5</b>          | <b>35</b>               | <b>0</b>   | <b>19.8</b> | <b>0.7</b> | <b>0.7</b> | <b>54</b>    | <b>ND&lt;0.68</b> | <b>1.1</b>     | <b>6.2</b>     | <b>0.79</b>         | <b>4.0</b>     |     |
| MW-2S          | 08/10/07        | 1           | 100%                   | 100%                 | 21                      | -          | -           | -          | -          | 11,000       | ND<110            | 280            | 770            | 81                  | 360            |     |
|                | 09/28/07        |             | 100%                   | 100%                 | 20                      | 5,900      | 2.5         | 20.6       | 0.4        | 0.4          | 5,100             | ND<35          | 110            | 310                 | 46             | 260 |
|                | 10/17/07        |             | 100%                   | 100%                 | 21                      | 1,450      | 1.0         | 20.9       | 0.1        | 0.1          | 1,900             | ND<20          | 59             | 120                 | 12             | 73  |
|                | 11/16/07        |             | 100%                   | 100%                 | 21                      | 4,600      | 2.5         | 20.7       | 0.5        | 0.5          | 5,800             | ND<27          | 120            | 340                 | 40             | 200 |
|                | 12/26/07        |             | 100%                   | 100%                 | 18                      | 2,600      | 1.5         | 20.9       | 0.4        | 0.4          | 3,100             | ND<27          | 84             | 230                 | 37             | 190 |
|                | 01/22/08        | 5           | 100%                   | 100%                 | 18                      | 1,000      | 0.5         | 17.7       | 0.6        | 3,000        | ND<14             | 61             | 190            | 24                  | 180            |     |
|                | 02/07/08        |             | 100%                   | 100%                 | 21.5                    | 1,000      | 0.5         | 20.9       | 0.2        | 0.2          | -                 | -              | -              | -                   | -              |     |
|                | 03/18/08        |             | 100%                   | 100%                 | 14.5                    | 100        | xx          | 20.9       | 0.6        | 0.6          | 1,400             | 2.3            | 17             | 51                  | 13             | 81  |
|                | 04/30/08        |             | 100%                   | OFF                  | 18                      | 190        | 0           | 20.7       | 0.5        | 0.5          | 1,900             | ND<6.8         | 22             | 75                  | 16             | 110 |
|                | 05/29/08        |             | OFF                    | OFF                  | 19.5                    | -          | -           | -          | -          | -            | -                 | -              | -              | -                   | -              |     |
|                | 06/26/08        | 7           | OFF                    | OFF                  | 23                      | -          | -           | -          | -          | -            | -                 | -              | -              | -                   |                |     |
|                | 07/30/08        |             | OFF                    | OFF                  | 17                      | 100        | 0.0         | 20.3       | 0.6        | 0.6          | -                 | -              | -              | -                   |                |     |
|                | 09/30/08        |             | OFF                    | 100%                 | 16.5                    | 160        | 0.0         | 16.7       | 1.8        | 1.8          | 220               | ND<0.68        | 0.44           | 3.1                 | 1.0            | 17  |
|                | 11/04/08        |             | 100%                   | 100%                 | 13                      | 6,800      | 1.5         | 11.8       | 3.1        | 3.1          | 3,800             | ND<14          | 78             | 170                 | 18             | 150 |
|                | 12/02/08        |             | 100%                   | 100%                 | 10                      | 3,200      | 0.5         | 18.3       | 0.9        | 0.9          | 3,200             | ND<14          | 66             | 170                 | 14             | 130 |
|                | 01/06/09        | 100%        | 100%                   | 11                   | 1,950                   | 0.5        | 17.7        | 1.6        | 1.6        | 3,400        | ND<30             | 69             | 150            | 13                  | 95             |     |
|                | 02/09/09        | 100%        | 100%                   | 12                   | 900                     | 0          | 16.4        | 1.4        | 1.4        | 1,100        | ND<10             | 25             | 53             | 4.9                 | 49             |     |
|                | 03/18/09        | 100%        | 100%                   | 10                   | 30                      | 0          | 20.9        | 0          | 0          | 130          | ND<0.68           | 1.1            | 5.6            | 0.43                | 2.6            |     |
|                | <b>04/21/09</b> | <b>100%</b> | <b>100%</b>            | <b>11</b>            | <b>15</b>               | <b>0</b>   | <b>17.1</b> | <b>1.4</b> | <b>1.4</b> | <b>130</b>   | <b>ND&lt;0.68</b> | <b>1.3</b>     | <b>3.9</b>     | <b>0.36</b>         | <b>4.9</b>     |     |
|                | <b>05/19/09</b> | <b>100%</b> | <b>100%</b>            | <b>11.5</b>          | <b>190</b>              | <b>0</b>   | <b>12.6</b> | <b>3.5</b> | <b>3.5</b> | <b>460</b>   | <b>ND&lt;2.0</b>  | <b>4.3</b>     | <b>13</b>      | <b>2.0</b>          | <b>19</b>      |     |

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date | Notes | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)    | O2 (%)      | CO2 (%)    | TPH-g (ppmv) | MTBE (ppmv)       | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylenes (ppmv) |
|----------------|-------------|-------|------------------------|----------------------|-------------------------|------------|------------|-------------|------------|--------------|-------------------|----------------|----------------|---------------------|----------------|
| MW-5S          | 08/10/07    |       | 100%                   | 100%                 | 21                      | -          | -          | -           | -          | 54           | ND<0.68           | 0.60           | 2.7            | 0.60                | 3.7            |
|                | 09/28/07    | 1     | 100%                   | 100%                 | 20                      | 8,000      | 5.5        | 20.2        | 0.3        | 3,800        | ND<60             | 70             | 150            | 19                  | 120            |
|                | 10/17/07    |       | 100%                   | 100%                 | 21                      | 880        | 0.5        | 20.9        | 0.1        | 1,100        | ND<14             | 27             | 56             | 5.3                 | 36             |
|                | 11/16/07    |       | 100%                   | 100%                 | 21                      | 4,600      | 3.0        | 20.0        | 0.7        | 3,800        | ND<110            | 64             | 170            | 21                  | 170            |
|                | 12/26/07    |       | OFF                    | OFF                  | 18                      | 200        | 0.0        | 20.9        | 0.0        | 140          | ND<0.68           | 0.45           | 3.7            | 1.5                 | 14             |
|                | 01/22/08    |       | 100%                   | 100%                 | 18                      | 300        | 0.0        | 18.0        | 0.4        | 760          | ND<4.5            | 3.3            | 16             | 2.4                 | 28             |
|                | 02/07/08    | 4     | OFF                    | OFF                  | 21.5                    | -          | -          | -           | -          | -            | -                 | -              | -              | -                   | -              |
|                | 03/18/08    |       | 100%                   | 100%                 | 14.5                    | 0          | xx         | 19.9        | 0.3        | 580          | ND<2.7            | 3              | 24             | 4.2                 | 39             |
|                | 04/30/08    |       | OFF                    | OFF                  | 18                      | 0          | 0.0        | 19.4        | 1.0        | 2,000        | ND<10             | 18             | 56             | 5.7                 | 63             |
|                | 05/29/08    |       | OFF                    | OFF                  | 19.5                    | -          | -          | -           | -          | -            | -                 | -              | -              | -                   | -              |
|                | 06/26/08    |       | OFF                    | OFF                  | 23                      | -          | -          | -           | -          | -            | -                 | -              | -              | -                   | -              |
|                | 07/30/08    | 7     | OFF                    | 50%                  | 17                      | 1,000      | 0.0        | 14.0        | 2.8        | -            | -                 | -              | -              | -                   | -              |
|                | 09/30/08    |       | OFF                    | 100%                 | 16.5                    | 1,850      | 0.0        | 16.0        | 2.8        | 2,000        | ND<14             | 27             | 61             | 6.2                 | 87             |
|                | 11/04/08    |       | 100%                   | 100%                 | 13                      | 2,450      | 0.5        | 14.6        | 2.3        | 3,900        | ND<27             | 30             | 100            | 6.1                 | 150            |
|                | 12/02/08    |       | 100%                   | 100%                 | 10                      | 1,810      | 0.0        | 19.7        | 0.1        | 1,900        | ND<27             | ND<3.1         | 29             | 2.9                 | 81             |
|                | 01/06/09    | 8     | 100%                   | 100%                 | 11                      | 1,350      | 0.0        | 17.3        | 0.3        | -            | -                 | -              | -              | -                   | -              |
|                | 02/09/09    |       | 100%                   | 100%                 | 12                      | 260        | 0.0        | 19.7        | 0.3        | 270          | ND<4.5            | 2.4            | 7.5            | 0.90                | 23             |
|                | 03/18/09    |       | 100%                   | 100%                 | 10                      | 50         | 0.0        | 20.8        | 0.3        | 99           | ND<2.0            | 2.1            | 6.0            | 0.76                | 6.2            |
|                | 04/21/09    |       | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>20</b>  | <b>0.0</b> | <b>20.3</b> | <b>0.3</b> | <b>40</b>    | <b>ND&lt;1.0</b>  | <b>1.1</b>     | <b>4.0</b>     | <b>0.51</b>         | <b>4.4</b>     |
|                | 05/19/09    |       | <b>100%</b>            | <b>100%</b>          | <b>11.5</b>             | <b>400</b> | <b>0.0</b> | <b>19.4</b> | <b>0.5</b> | <b>450</b>   | <b>ND&lt;3.0</b>  | <b>1.7</b>     | <b>6.8</b>     | <b>0.71</b>         | <b>5.6</b>     |
| MW-6S          | 08/10/07    |       | 100%                   | 100%                 | 21                      | -          | -          | -           | -          | 5,800        | ND<30             | 69             | 280            | 24                  | 140            |
|                | 09/28/07    | 1     | 100%                   | 100%                 | 20                      | >11,000    | 8.0        | 19.7        | 0.5        | 6,800        | ND<60             | 100            | 360            | 34                  | 190            |
|                | 10/17/07    |       | 100%                   | 100%                 | 21                      | 1,350      | 0.5        | 20.9        | 0.1        | 1,700        | ND<10             | 24             | 90             | 9.7                 | 79             |
|                | 11/16/07    |       | 100%                   | 50%                  | 21                      | 6,300      | 4.5        | 19.2        | 1.0        | 6,400        | ND<27             | 56             | 270            | 40                  | 310            |
|                | 12/26/07    |       | 100%                   | 100%                 | 18                      | 4,600      | 2.5        | 18.5        | 1.3        | 4,200        | ND<27             | 21             | 96             | 14                  | 180            |
|                | 01/22/08    |       | 50%                    | 100%                 | 18                      | 1,050      | 0.5        | 15.6        | 1.0        | 1,900        | ND<14             | 11             | 74             | 13                  | 100            |
|                | 02/07/08    |       | -                      | -                    | 21.5                    | -          | -          | -           | -          | -            | -                 | -              | -              | -                   | -              |
|                | 03/18/08    |       | 100%                   | 100%                 | 14.5                    | 15         | xx         | 20.5        | 0.1        | 230          | ND<1.4            | 1.2            | 9.2            | 2.4                 | 16             |
|                | 04/30/08    |       | 100%                   | 100%                 | 18                      | 140        | 0.0        | 20.7        | 0.7        | 760          | ND<6.8            | 3.5            | 18             | 3.2                 | 36             |
|                | 05/29/08    |       | OFF                    | OFF                  | 19.5                    | -          | -          | -           | -          | -            | -                 | -              | -              | -                   | -              |
|                | 06/26/08    |       | OFF                    | 100%                 | 23                      | 210        | 0.0        | 19.8        | 0.4        | 400          | ND<10             | 2              | 18             | 3.1                 | 24             |
|                | 07/30/08    | 7     | 100%                   | 100%                 | 17                      | 270        | 0.0        | 20.2        | 0.7        | 460          | ND<4.5            | 1.7            | 14             | 2.2                 | 19             |
|                | 09/30/08    |       | OFF                    | 100%                 | 16.5                    | 570        | 0.0        | 17.4        | 2.0        | 640          | ND<14             | 7.7            | 42             | 3.7                 | 31             |
|                | 11/04/07    |       | 100%                   | 100%                 | 13                      | 580        | 0.0        | 17.4        | 1.2        | 900          | ND<2.7            | 4.6            | 21             | 4.6                 | 46             |
|                | 12/02/08    |       | 100%                   | 100%                 | 10                      | 460        | 0.0        | 20.6        | 0.3        | 710          | ND<14             | 3.2            | 13             | 1.4                 | 30             |
|                | 01/06/09    |       | 100%                   | 100%                 | 11                      | 280        | 0.0        | 19.9        | 0.4        | 520          | ND<14             | 4.1            | 17             | 2.3                 | 32             |
|                | 02/09/09    |       | 100%                   | 100%                 | 12                      | 80         | 0.0        | 20.9        | 0.1        | 60           | ND<0.68           | 1.4            | 3.4            | 0.49                | 8.2            |
|                | 03/18/09    |       | 100%                   | 100%                 | 10                      | 70         | 0.0        | 20.9        | 0.0        | 61           | ND<3.0            | 1.3            | 1.7            | 0.38                | 4.0            |
|                | 04/21/09    |       | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>10</b>  | <b>0.0</b> | <b>20.9</b> | <b>0.0</b> | <b>18</b>    | <b>0.98</b>       | <b>0.41</b>    | <b>0.47</b>    | <b>0.13</b>         | <b>1.4</b>     |
|                | 05/19/09    |       | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>-</b>   | <b>-</b>   | <b>-</b>    | <b>-</b>   | <b>20</b>    | <b>ND&lt;0.68</b> | <b>0.59</b>    | <b>0.98</b>    | <b>0.17</b>         | <b>2.1</b>     |

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date | Notes       | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)     | O2 (%)      | CO2 (%)    | TPH-g (ppmv)    | MTBE (ppmv)      | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylenes (ppmv) |   |
|----------------|-------------|-------------|------------------------|----------------------|-------------------------|------------|-------------|-------------|------------|-----------------|------------------|----------------|----------------|---------------------|----------------|---|
| MW-7S          | 08/10/07    | 1           |                        |                      | 21                      | -          | -           | -           | -          | 19,000          | ND<450           | 620            | 590            | 27                  | 100            |   |
|                | 09/28/07    |             | 100%                   | 100%                 | 20                      | 11,000     | 19          | 20.0        | 0.5        | 13,000          | ND<150           | 350            | 630            | 69                  | 370            |   |
|                | 10/17/07    |             | 100%                   | 100%                 | 21                      | 0          | 0.0         | 20.9        | 0.0        | 390             | ND<14            | 27             | 60             | 6                   | 51             |   |
|                | 11/16/07    |             | 100%                   | 50%                  | 21                      | 10,000     | 8.0         | 20.5        | 0.4        | 7,700           | ND<45            | 170            | 390            | 47                  | 280            |   |
|                | 12/26/07    |             | 100%                   | 100%                 | 18                      | 5,500      | 3.0         | 20.4        | 0.5        | 4,700           | ND<45            | 100            | 220            | 27                  | 190            |   |
|                | 01/22/08    |             | 100%                   | 100%                 | 18                      | 2,050      | 1.0         | 18.2        | 0.4        | 3,900           | ND<14            | 69             | 200            | 20                  | 210            |   |
|                | 02/07/08    |             | -                      | -                    | 21.5                    | -          | -           | -           | -          | -               | -                | -              | -              | -                   | -              | - |
|                | 03/18/08    |             | 100%                   | 100%                 | 14.5                    | 390        | xx          | 20.2        | 0.3        | 2,000           | ND<5.0           | 25             | 81             | 11                  | 78             |   |
|                | 04/30/08    |             | 100%                   | 100%                 | 18                      | 600        | 1.0         | 19.0        | 1.2        | 4,100           | ND<14            | 66             | 150            | 15                  | 150            |   |
|                | 05/29/08    |             | OFF                    | OFF                  | 19.5                    | -          | -           | -           | -          | -               | -                | -              | -              | -                   | -              | - |
|                | 06/26/08    | OFF         | 100%                   | 23                   | 5,200                   | 1.5        | 15.8        | 2.7         | 4,800      | ND<30           | 56               | 71             | 4              | 110                 |                |   |
|                | 07/30/08    | 100%        | 100%                   | 17                   | 2,750                   | 0.5        | 18.3        | 1.7         | -          | -               | -                | -              | -              | -                   |                |   |
|                | 09/30/08    | OFF         | 100%                   | 16.5                 | 4,200                   | 1.0        | 12.6        | 5.9         | 2,800      | ND<30           | 57               | 72             | 4.2            | 110                 |                |   |
|                | 11/04/08    | 100%        | 100%                   | 13                   | 9,100                   | 1.5        | 7.5         | 3.5         | 4,100      | ND<14           | 53               | 87             | 4.3            | 130                 |                |   |
|                | 12/02/08    | 100%        | 100%                   | 10                   | 4,350                   | 0.5        | 19.5        | 1.1         | 3,900      | ND<27           | 44               | 89             | 4.1            | 110                 |                |   |
|                | 01/06/09    | 100%        | 100%                   | 11                   | 3,150                   | 0.5        | 15.4        | 2.3         | 2,000      | ND<4.5          | 19               | 43             | 3.0            | 77                  |                |   |
|                | 02/09/09    | 100%        | 100%                   | 12                   | 1,050                   | 0.0        | 13.4        | 2.5         | 1,100      | ND<10           | 19               | 21             | 1.8            | 34                  |                |   |
|                | 03/18/09    | 100%        | 100%                   | 10                   | 440                     | 0.0        | 15.3        | 2.7         | 690        | ND<14           | 28               | 22             | 1.9            | 17                  |                |   |
|                | 04/21/09    | <b>100%</b> | <b>100%</b>            | <b>11</b>            | <b>30</b>               | <b>0.0</b> | <b>20.4</b> | <b>1.3</b>  | <b>53</b>  | <b>4.5</b>      | <b>2.7</b>       | <b>2.2</b>     | <b>0.28</b>    | <b>3.0</b>          |                |   |
|                | 05/19/09    | <b>100%</b> | <b>100%</b>            | <b>11.5</b>          | <b>490</b>              | <b>0.0</b> | <b>9.2</b>  | <b>5.2</b>  | <b>890</b> | <b>ND&lt;14</b> | <b>29</b>        | <b>33</b>      | <b>1.8</b>     | <b>20</b>           |                |   |
| MW-10S         | 11/21/07    | 7           | 100%                   | 100%                 | 19                      | >44,000    | 43.0        | 17.0        | 2.2        | 28,000          | ND<68            | 300            | 800            | 63                  | 230            |   |
|                | 12/26/07    |             | 100%                   | 100%                 | 18                      | 3,900      | 2.5         | 19.4        | 0.5        | 6,300           | ND<14            | 55             | 350            | 64                  | 300            |   |
|                | 01/22/08    |             | 100%                   | 100%                 | 16.5                    | 1,850      | 0.5         | 16.1        | 0.5        | 4,700           | ND<14            | 38             | 230            | 49                  | 310            |   |
|                | 02/07/08    |             | -                      | -                    | -                       | -          | -           | -           | -          | -               | -                | -              | -              | -                   | -              |   |
|                | 03/18/08    |             | 100%                   | 100%                 | 14.5                    | 270        | xx          | 19.0        | 0.9        | 2,100           | ND<14            | 13             | 73             | 31                  | 190            |   |
|                | 04/30/08    |             | 100%                   | 100%                 | 18                      | 310        | 0.5         | 19.6        | 0.9        | 2,500           | ND<14            | 11             | 76             | 33                  | 230            |   |
|                | 05/29/08    |             | 100%                   | 100%                 | 18                      | 1,750      | 0.0         | 19.6        | 0.8        | 1,800           | ND<6.8           | 13             | 47             | 17                  | 120            |   |
|                | 06/26/08    |             | 100%                   | 100%                 | 23                      | 370        | 0.0         | 20.7        | 0.1        | 780             | ND<1.4           | 4.1            | 15             | 4.9                 | 38             |   |
|                | 07/30/08    |             | 100%                   | 100%                 | 17                      | 1,050      | 0.0         | 20.3        | 0.8        | 1,600           | ND<14            | 16             | 50             | 9.5                 | 95             |   |
|                | 09/30/08    |             | 100%                   | 0%                   | 16.5                    | 640        | 0.0         | 20.9        | 0.4        | 690             | ND<4.0           | 10             | 29             | 5.1                 | 53             |   |
|                | 11/04/08    |             | 0%                     | 100%                 | 13                      | 1,900      | 0.5         | 13.0        | 2.5        | 2,300           | ND<14            | 36             | 89             | 8.1                 | 120            |   |
|                | 12/02/08    |             | 100%                   | 100%                 | 10                      | 1,550      | 0.0         | 20.3        | 0.6        | 1,500           | ND<14            | 26             | 73             | 8.4                 | 71             |   |
|                | 01/06/09    |             | 100%                   | 100%                 | 11                      | 1,150      | 0.0         | 18.2        | 1.2        | 2,200           | ND<15            | 31             | 64             | 6.7                 | 64             |   |
|                | 02/09/09    |             | 100%                   | 100%                 | 12                      | 310        | 0.0         | 17.8        | 0.7        | 400             | ND<2.7           | 5.6            | 12             | 1.1                 | 21             |   |
|                | 03/18/09    |             | 100%                   | 100%                 | 10                      | 130        | 0.0         | 18.7        | 0.7        | 220             | ND<10            | 8.9            | 7.7            | 1.4                 | 10             |   |
|                | 04/21/09    |             | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>110</b> | <b>0.0</b>  | <b>16.9</b> | <b>1.0</b> | <b>240</b>      | <b>ND&lt;5.0</b> | <b>4.4</b>     | <b>5.7</b>     | <b>0.98</b>         | <b>9.6</b>     |   |
|                | 05/19/09    |             | <b>100%</b>            | <b>100%</b>          | <b>11.5</b>             | <b>75</b>  | <b>0.0</b>  | <b>12.2</b> | <b>2.3</b> | <b>370</b>      | <b>ND&lt;5.0</b> | <b>4.9</b>     | <b>7.7</b>     | <b>1.2</b>          | <b>13</b>      |   |

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date     | Notes | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)    | O2 (%)      | CO2 (%)    | TPH-g (ppmv) | MTBE (ppmv)      | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylenes (ppmv) |
|----------------|-----------------|-------|------------------------|----------------------|-------------------------|------------|------------|-------------|------------|--------------|------------------|----------------|----------------|---------------------|----------------|
| MW-11S         | 11/21/07        | 7     | 100%                   | 100%                 | 19                      | 36,600     | 26.5       | 19.2        | 2.2        | 20,000       | ND<68            | 240            | 640            | 63                  | 240            |
|                | 12/26/07        |       | 50%                    | 100%                 | 18                      | 1,350      | 0.5        | 20.9        | 0.2        | 3,400        | ND<75            | 50             | 220            | 50                  | 230            |
|                | 01/22/08        |       | 100%                   | 100%                 | 16.5                    | 1,000      | 0.0        | 19.3        | 0.2        | 3,000        | ND<30            | 81             | 190            | 39                  | 230            |
|                | 02/07/08        |       | -                      | -                    | -                       | -          | -          | -           | -          | -            | -                | -              | -              | -                   | -              |
|                | 03/18/08        |       | 100%                   | 100%                 | 14.5                    | 130        | xx         | 20.0        | 0.3        | 1,700        | ND<14            | 26             | 66             | 26                  | 150            |
|                | 04/30/08        |       | 100%                   | 100%                 | 18                      | 120        | 0.0        | 20.9        | 0.2        | 600          | ND<5.0           | 6.7            | 23             | 5.9                 | 49             |
|                | 05/29/08        |       | 100%                   | 100%                 | 18                      | 950        | 0.0        | 20.9        | 0.3        | 1,800        | ND<30            | 24             | 47             | 18                  | 120            |
|                | 06/26/08        |       | 100%                   | 100%                 | 23                      | 480        | 0.0        | 20.9        | 0.1        | 940          | ND<15            | 12             | 28             | 8.4                 | 57             |
|                | 07/30/08        |       | 100%                   | 100%                 | 17                      | 980        | 0.0        | 20.9        | 0.3        | 1,600        | ND<30            | 22             | 50             | 13                  | 100            |
|                | 09/30/08        |       | 100%                   | 0%                   | 16.5                    | 510        | 0.0        | 20.9        | 0.2        | 490          | ND<10            | 11             | 22             | 3.8                 | 40             |
|                | 11/04/08        |       | 0%                     | 100%                 | 13                      | 360        | 0.0        | 16.5        | 1.4        | 820          | ND<20            | 22             | 21             | 5.2                 | 57             |
|                | 12/02/08        |       | 100%                   | 100%                 | 10                      | 320        | 0.0        | 20.9        | 0.2        | 1,400        | ND<35            | 23             | 57             | 6.3                 | 73             |
|                | 01/06/09        |       | 100%                   | 100%                 | 11                      | 790        | 0.0        | 18.9        | 0.6        | 1,200        | ND<20            | 29             | 53             | 5.7                 | 56             |
|                | 02/09/09        |       | 100%                   | 100%                 | 12                      | 380        | 0.0        | 17.6        | 0.8        | 500          | ND<6.0           | 14             | 18             | 2.3                 | 28             |
|                | 03/18/09        |       | 100%                   | 100%                 | 10                      | 280        | 0.0        | 17.3        | 1.2        | 400          | ND<3.0           | 48             | 18             | 3.4                 | 20             |
|                | <b>04/21/09</b> |       | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>210</b> | <b>0.0</b> | <b>16.9</b> | <b>1.2</b> | <b>460</b>   | <b>ND&lt;20</b>  | <b>32</b>      | <b>20</b>      | <b>3.3</b>          | <b>31</b>      |
|                | <b>05/19/09</b> |       | <b>100%</b>            | <b>100%</b>          | <b>11.5</b>             | <b>200</b> | <b>0.0</b> | <b>15.5</b> | <b>1.5</b> | <b>80</b>    | <b>ND&lt;3.0</b> | <b>5.1</b>     | <b>3.2</b>     | <b>0.58</b>         | <b>6.7</b>     |
| MW-12S         | 11/21/07        | 7     | 50%                    | 50%                  | 19                      | 110        | 0.0        | 20.9        | 0.7        | 1,400        | ND<100           | 87             | 51             | 10                  | 40             |
|                | 12/26/07        |       | 50%                    | 50%                  | 18                      | 720        | 0.0        | 20.9        | 0.1        | 1,200        | ND<45            | 27             | 100            | 13                  | 74             |
|                | 01/22/08        |       | 100%                   | 100%                 | 16.5                    | 630        | 0.0        | 19.3        | 0.2        | 1,100        | ND<45            | 14             | 50             | 8.4                 | 65             |
|                | 02/07/08        |       | -                      | -                    | -                       | -          | -          | -           | -          | -            | -                | -              | -              | -                   |                |
|                | 03/18/08        |       | 100%                   | 100%                 | 14.5                    | 0          | xx         | 20.9        | 0.0        | 460          | ND<30            | 42             | 32             | 4.2                 | 36             |
|                | 04/30/08        |       | 100%                   | 100%                 | 18                      | 65         | 0.0        | 20.9        | 0.2        | 390          | 5                | 8.8            | 17             | 3.9                 | 30             |
|                | 05/29/08        |       | 100%                   | 100%                 | 18                      | 150        | 0.0        | 20.9        | 0.3        | 490          | ND<10            | 14             | 23             | 4.4                 | 30             |
|                | 06/26/08        |       | 100%                   | 100%                 | 23                      | 140        | 0.0        | 20.9        | 0.1        | 300          | 4.1              | 5.1            | 14             | 2.6                 | 22             |
|                | 07/30/08        |       | 100%                   | 100%                 | 17                      | 240        | 0.0        | 20.9        | 0.3        | 450          | ND<5.0           | 4.5            | 20             | 3.8                 | 32             |
|                | 09/30/08        |       | 100%                   | 0%                   | 16.5                    | 190        | 0.0        | 20.9        | 0.2        | 230          | ND<5.0           | 3.9            | 12             | 2.2                 | 28             |
|                | 11/04/08        |       | 0%                     | 100%                 | 13                      | 140        | 0.0        | 18          | 0.8        | 260          | ND<5.0           | 6.5            | 7.4            | 1.2                 | 14             |
|                | 12/02/08        |       | 100%                   | 100%                 | 10                      | 150        | 0.0        | 20.5        | 0.6        | 660          | ND<5.0           | 7.3            | 29             | 4.5                 | 66             |
|                | 01/06/09        |       | 100%                   | 100%                 | 11                      | 380        | 0.0        | 20.3        | 0.4        | 490          | ND<6.8           | 9.1            | 18             | 2.2                 | 37             |
|                | 02/09/09        |       | 100%                   | 100%                 | 12                      | 70         | 0.0        | 20.1        | 0.3        | 110          | ND<5.0           | 4.2            | 4.0            | 0.58                | 8.1            |
|                | 03/18/09        |       | 100%                   | 100%                 | 10                      | 25         | 0.0        | 20.9        | 0.2        | 98           | ND<5.0           | 7.6            | 4.2            | 0.53                | 2.5            |
|                | <b>04/21/09</b> |       | <b>100%</b>            | <b>100%</b>          | <b>11</b>               | <b>30</b>  | <b>0.0</b> | <b>20.6</b> | <b>0.5</b> | <b>40</b>    | <b>3.4</b>       | <b>6.5</b>     | <b>2.1</b>     | <b>0.41</b>         | <b>2.0</b>     |
|                | <b>05/19/09</b> |       | <b>100%</b>            | <b>100%</b>          | <b>11.5</b>             | <b>20</b>  | <b>0.0</b> | <b>19.2</b> | <b>0.7</b> | <b>52</b>    | <b>ND&lt;3.0</b> | <b>4.7</b>     | <b>1.8</b>     | <b>0.47</b>         | <b>3.5</b>     |

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date     | Notes | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)    | O2 (%)      | CO2 (%)    | TPH-g (ppmv)     | MTBE (ppmv)       | Benzene (ppmv)     | Toluene (ppmv)     | Ethylbenzene (ppmv) | Xylenes (ppmv)     |     |
|----------------|-----------------|-------|------------------------|----------------------|-------------------------|------------|------------|-------------|------------|------------------|-------------------|--------------------|--------------------|---------------------|--------------------|-----|
| AS             | 10/17/07        | 7     | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | 130              | ND<1.4            | 4.3                | 11                 | 1.4                 | 12                 |     |
|                | 11/08/07        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | 19               | ND<0.68           | 0.60               | 1.8                | 0.18                | 3.2                |     |
|                | 01/15/08        |       | 100%                   | 100%                 | -                       | -          | -          | -           | -          | -                | 1,100             | 19                 | 31                 | 100                 | 17                 | 180 |
|                | 01/31/08        |       | 100%                   | 100%                 | -                       | -          | -          | -           | -          | -                | 69                | ND<4.5             | 1.7                | 5.0                 | 0.81               | 11  |
|                | 02/07/08        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | 31               | 1.4               | 0.47               | 1.5                | 0.21                | 4.1                |     |
|                | 03/18/08        |       | 100%                   | 100%                 | -                       | -          | -          | -           | -          | -                | 31                | 0.71               | 0.60               | 1.8                 | 0.34               | 3.2 |
|                | 04/30/08        |       | 100%                   | 100%                 | -                       | 10         | 0.0        | 20.9        | 0.0        | 37               | ND<0.68           | 0.36               | 1.4                | 0.34                | 4.1                |     |
|                | 05/29/08        |       | 100%                   | 100%                 | -                       | 60         | 0.0        | 20.9        | 0.0        | ND<7.0           | ND<0.68           | ND<0.077           | ND<0.065           | ND<0.057            | 0.16               |     |
|                | 06/26/08        |       | 100%                   | 100%                 | -                       | 10         | 0.0        | 20.9        | 0.0        | 44               | 0.97              | 0.89               | 2.5                | 0.54                | 6.3                |     |
|                | 07/30/08        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | 41               | ND<1.4            | 0.81               | 2.2                | 0.20                | 4.2                |     |
|                | 09/30/08        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | -                | -                 | -                  | -                  | -                   | -                  |     |
|                | 11/04/08        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.1        | 21               | ND<0.68           | 0.38               | 0.91               | 0.13                | 2.6                |     |
|                | 12/02/09        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.1        | 10               | ND<0.68           | ND<0.077           | 0.22               | ND<0.057            | 0.79               |     |
|                | 01/06/09        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.1        | 150              | ND<1.5            | 1.9                | 6.9                | 1.1                 | 22                 |     |
|                | 02/09/09        |       | 100%                   | 100%                 | -                       | 15         | 0.0        | 20.9        | 0.0        | 18               | ND<0.68           | 0.28               | 0.57               | 0.078               | 1.5                |     |
|                | 03/18/09        |       | 100%                   | 100%                 | -                       | 0          | 0.0        | 20.9        | 0.0        | ND<7.0           | ND<0.68           | ND<0.077           | 0.085              | ND<0.057            | 0.15               |     |
|                | <b>04/21/09</b> |       | <b>100%</b>            | <b>100%</b>          | -                       | <b>0</b>   | <b>0.0</b> | <b>20.9</b> | <b>0.0</b> | <b>ND&lt;7.0</b> | <b>ND&lt;0.68</b> | <b>ND&lt;0.077</b> | <b>ND&lt;0.065</b> | <b>ND&lt;0.057</b>  | <b>ND&lt;0.057</b> |     |
|                | <b>05/19/09</b> |       | <b>100%</b>            | <b>100%</b>          | -                       | <b>0</b>   | <b>0.0</b> | <b>20.9</b> | <b>0.0</b> | <b>ND&lt;7.0</b> | <b>ND&lt;0.68</b> | <b>ND&lt;0.077</b> | <b>ND&lt;0.065</b> | <b>ND&lt;0.057</b>  | <b>ND&lt;0.057</b> |     |

**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID | Sample Date     | Notes | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv) | CH4 (%)    | O2 (%)      | CO2 (%)    | TPH-g (ppmv) | MTBE (ppmv)      | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylenes (ppmv) |
|----------------|-----------------|-------|------------------------|----------------------|-------------------------|------------|------------|-------------|------------|--------------|------------------|----------------|----------------|---------------------|----------------|
| <b>PRED</b>    | 06/28/07        |       | -                      | -                    | 18.5                    | -          | -          | -           | -          | -            | -                | -              | -              | -                   | -              |
|                | 07/11/07        |       | -                      | -                    | 21.5                    | 10,750     | -          | -           | -          | 6,600        | ND<90            | 180            | 340            | 39                  | 190            |
|                | 07/27/07        |       | -                      | -                    | 20                      | >11,000    | -          | -           | -          | 11,000       | ND<75            | 170            | 330            | 38                  | 160            |
|                | 08/01/07        |       | -                      | -                    | 19                      | 6,000      | 9.1        | 18.5        | 1.1        | 5,500        | ND<70            | 140            | 250            | 16                  | 71             |
|                | 08/10/07        |       | -                      | -                    | 21                      | -          | -          | -           | -          | 7,700        | ND<90            | 210            | 410            | 41                  | 190            |
|                | 09/28/07        | 1     | -                      | -                    | 20                      | 5,700      | 3.5        | 20.7        | 0.3        | 4,000        | ND<50            | 90             | 170            | 9.3                 | 42             |
|                | 10/17/07        |       | -                      | -                    | 21                      | 9,050      | -          | -           | -          | 5,100        | ND<60            | 130            | 210            | 8.6                 | 51             |
|                | 11/08/07        |       | -                      | -                    | 21                      | 0          | 0.0        | 20.9        | 0.0        | 4,000        | ND<0.68          | 0.35           | 2.2            | 0.68                | 6.6            |
|                | 11/16/07        |       | -                      | -                    | 21                      | 3,050      | 2.0        | 20.7        | 0.4        | 3,700        | ND<120           | 63             | 170            | 20                  | 120            |
|                | 11/16/07        |       | -                      | -                    | 21                      | 6,100      | 4.5        | 20.3        | 0.7        | 6,000        | ND<27            | 100            | 250            | 27                  | 170            |
|                | 11/21/07        |       | -                      | -                    | 19                      | 12,000     | 13.5       | 19.4        | 1.2        | 2,500        | ND<14            | 39             | 120            | 16                  | 79             |
|                | 12/04/07        |       | -                      | -                    | 20                      | 10,500     | 9.5        | 18.8        | 0.9        | 7,900        | ND<32            | 120            | 340            | 48                  | 280            |
|                | 12/26/07        |       | -                      | -                    | 18                      | 3,650      | 2.0        | 20.9        | 0.5        | 4,100        | ND<27            | 72             | 250            | 42                  | 270            |
|                | 01/08/08        | 3     | -                      | -                    | 18                      | -          | -          | -           | -          | -            | -                | -              | -              | -                   | -              |
|                | 01/15/08        |       | -                      | -                    | 19                      | 710        | 0.0        | 20.0        | 0.3        | 1,900        | ND<14            | 29             | 89             | 16                  | 100            |
|                | 01/22/08        |       | -                      | -                    | 18                      | 800        | 0.0        | 17.8        | 0.5        | 1,900        | ND<14            | 34             | 100            | 13                  | 100            |
|                | 01/31/08        |       | -                      | -                    | 21                      | 1,250      | 0.5        | 20.9        | 0.5        | 2,200        | ND<14            | 36             | 120            | 19                  | 160            |
|                | 02/07/08        |       | -                      | -                    | 21.5                    | 700        | 0.0        | 20.9        | 0.4        | 2,000        | ND<35            | 34             | 110            | 10                  | 130            |
|                | 03/18/08        |       | -                      | -                    | 14.5                    | 160        | xx         | 15.3        | 0.9        | 630          | ND<3.0           | 7.0            | 25             | 5.6                 | 38             |
|                | 04/30/08        |       | -                      | -                    | 18                      | 280        | 0.5        | 20.2        | 0.0        | 2,100        | ND<5.0           | 20             | 63             | 16                  | 120            |
|                | 05/29/08        |       | -                      | -                    | 19.5                    | 1,500      | 0.0        | 19.6        | 0.8        | 2,100        | ND<10            | 21             | 45             | 18                  | 120            |
|                | 06/26/08        |       | -                      | -                    | 23                      | 280        | 0.5        | 20.2        | 0.0        | 860          | ND<5.0           | 11             | 27             | 6.5                 | 50             |
|                | 07/30/08        | 7     | -                      | -                    | 17                      | 1,350      | 0.0        | 19.3        | 1.1        | 2,200        | ND<6.8           | 24             | 62             | 10                  | 90             |
|                | 09/30/08        |       | -                      | -                    | 16.5                    | 1,650      | 0.5        | 16.1        | 1.8        | 1,100        | ND<10            | 20             | 42             | 8.2                 | 78             |
|                | 11/04/08        |       | -                      | -                    | 13                      | 2,500      | 0.5        | 16.1        | 1.8        | 2,700        | ND<10            | 31             | 77             | 9.3                 | 130            |
|                | 12/02/08        |       | -                      | -                    | 10                      | 1,100      | 0.0        | 20.5        | 0.6        | 2,200        | ND<5.0           | 27             | 80             | 8.7                 | 130            |
|                | 01/06/09        |       | -                      | -                    | 11                      | 1,300      | 0.0        | 18.4        | 1.2        | 1,200        | ND<80            | 21             | 58             | 5.7                 | 78             |
|                | 02/09/09        |       | -                      | -                    | 12                      | 880        | 0.0        | 15.6        | 1.5        | 1,200        | ND<10            | 17             | 31             | 3.1                 | 46             |
|                | 03/18/09        |       | -                      | -                    | 10                      | 60         | 0.0        | 20.8        | 0.4        | 130          | ND<0.68          | 5.2            | 11             | 1.2                 | 7.1            |
|                | <b>04/21/09</b> |       | -                      | -                    | <b>11</b>               | <b>35</b>  | <b>0.0</b> | <b>19.9</b> | <b>0.3</b> | <b>58</b>    | <b>ND&lt;1.4</b> | <b>1.9</b>     | <b>3.5</b>     | <b>0.44</b>         | <b>3.7</b>     |
|                | <b>05/19/09</b> |       | -                      | -                    | <b>11.5</b>             | <b>100</b> | <b>0.0</b> | <b>19.2</b> | <b>0.8</b> | <b>190</b>   | <b>ND&lt;2.7</b> | <b>3.4</b>     | <b>7.3</b>     | <b>0.95</b>         | <b>8.0</b>     |





**TABLE 5: HVDPE VAPOR INLET SAMPLE ANALYTICAL & FIELD SCREENING DATA SUMMARY**

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

| Sample Port ID  | Sample Date | Notes | Initial Valve Position | Final Valve Position | Manifold Vacuum (in-Hg) | TVH (ppmv)  | CH4 (%)    | O2 (%)           | CO2 (%)           | TPH-g (ppmv)       | MTBE (ppmv)        | Benzene (ppmv)     | Toluene (ppmv)     | Ethylbenzene (ppmv) | Xylenes (ppmv) |          |
|-----------------|-------------|-------|------------------------|----------------------|-------------------------|-------------|------------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|----------------|----------|
| <b>STACK</b>    | 06/28/07    | 7     | -                      | -                    | -                       | 0           | 0.0        | 12.3             | 5.4               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 07/27/08    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | -                  | -                  | -                  | -                   | -              | -        |
|                 | 08/10/07    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065            | ND<0.057       | ND<0.057 |
|                 | 09/28/07    |       | -                      | -                    | -                       | 0           | 0.0        | 14.0             | 4.5               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 10/17/07    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065            | ND<0.057       | ND<0.057 |
|                 | 11/08/07    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | 21                 | ND<0.68            | 0.24               | 1.5                 | 0.29           | 2.4      |
|                 | 11/16/07    |       | -                      | -                    | -                       | 0           | 0.0        | 14.8             | 4.8               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 12/26/07    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | -                  | -                  | -                  | -                   | -              | -        |
|                 | 01/18/08    |       | -                      | -                    | -                       | -           | -          | -                | -                 | -                  | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065            | ND<0.057       | ND<0.057 |
|                 | 02/07/08    |       | -                      | -                    | -                       | 0           | 0.0        | 19.0             | 1.7               | -                  | -                  | -                  | -                  | -                   | -              | -        |
|                 | 03/18/08    |       | -                      | -                    | -                       | 0           | xx         | 18.0             | 1.9               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 04/30/08    |       | -                      | -                    | -                       | 0           | 0.0        | 17.7             | 2.0               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 05/29/08    |       | -                      | -                    | -                       | 0           | 0.0        | 17.7             | 2.5               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 06/26/08    |       | -                      | -                    | -                       | 0           | 0.0        | 17.9             | 1.9               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 07/30/08    |       | -                      | -                    | -                       | 0           | 0.0        | 17.0             | 1.8               | 27                 | ND<0.68            | 0.09               | 0.64               | 0.16                | 2.1            |          |
|                 | 09/30/08    |       | -                      | -                    | -                       | 0           | 0.0        | 16.1             | 2.0               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 11/04/08    |       | -                      | -                    | -                       | 0           | 0.0        | 15.7             | 2.9               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
|                 | 12/02/08    |       | -                      | -                    | -                       | 0           | 0.0        | 17.7             | 2.3               | 52                 | ND<0.68            | 0.19               | 1.5                | 0.34                | 4.4            |          |
|                 | 01/06/09    |       | -                      | -                    | -                       | 0           | 0.0        | 17.7             | 2.3               | 26                 | ND<0.68            | ND<0.077           | 0.52               | 0.11                | 1.9            |          |
|                 | 02/09/09    |       | -                      | -                    | -                       | 0           | 0.0        | 16.1             | 2.6               | ND<7.0             | ND<0.68            | ND<0.077           | ND<0.065           | ND<0.057            | ND<0.057       |          |
| 03/18/09        | -           | -     | -                      | 0                    | 0.0                     | 18.3        | 2.0        | ND<7.0           | ND<0.68           | ND<0.077           | ND<0.065           | ND<0.057           | ND<0.057           |                     |                |          |
| <b>04/21/09</b> | -           | -     | -                      | <b>0</b>             | <b>0.0</b>              | <b>18.3</b> | <b>2.2</b> | <b>ND&lt;7.0</b> | <b>ND&lt;0.68</b> | <b>ND&lt;0.077</b> | <b>ND&lt;0.065</b> | <b>ND&lt;0.057</b> | <b>ND&lt;0.057</b> |                     |                |          |
| <b>05/19/09</b> | -           | -     | -                      | <b>0</b>             | <b>0.0</b>              | <b>17.9</b> | <b>2.2</b> | <b>ND&lt;7.0</b> | <b>ND&lt;0.68</b> | <b>ND&lt;0.077</b> | <b>ND&lt;0.065</b> | <b>ND&lt;0.057</b> | <b>ND&lt;0.057</b> |                     |                |          |
| <b>DL</b>       |             |       |                        |                      |                         | <b>5.0</b>  | <b>0.1</b> | <b>0.1</b>       | <b>0.1</b>        | <b>7.0</b>         | <b>0.68</b>        | <b>0.077</b>       | <b>0.065</b>       | <b>0.057</b>        | <b>0.057</b>   |          |

**NOTES:**

TPH-g = total petroleum hydrocarbons as gasoline  
 MTBE = methyl tertiary-butyl ether  
 in-Hg = inches of mercury  
 ppmv = parts per million by volume  
 % = percent concentration by volume  
 PRED = pre-dilution sample port at combined inlet  
 POSTD = post-dilution sample part at thermal/catalytic oxidizer inlet  
 - not sampled/analyzed

xx = methane sensor damaged; pending replacement  
 TVH = total volatile hydrocarbons (calibrated w/ hexane)  
 CH4 = methane by infrared detection (0 to 100% by volume)  
 O2 = oxygen by electrochemical detection (0-40% by volume)  
 CO2 = carbon dioxide by infrared detection (0 to 20% by volume)  
 TVH, CH4, O2, and CO2 measured RKI Eagle gas detector

**DL = detection limit for dilution factor of 1**  
 TPH-g by EPA Method 8015C  
 BTEX & MTBE by EPA Method 8021B

- 1) Individual well water separator trap used for the 1st time.
- 2) Vacuum leak detected at wellhead due to broken wellhead seal.
- 3) Pump failed, not strong enough to collect sample from PRED @ 18 in-Hg.
- 4) Opened 100% for field screening, turned OFF after screening, no lab sample collected.
- 5) Opened 100% for field screening, no lab sample collected.
- 6) Discontinued POSTD process sampling port starting in the 3rd Quarter, 2008 because it no longer provides any additional useful information.
- 7) HVDPE system shutdown most of the month of August for quarterly soil gas monitoring and pending repair of the rotary phase converter.
- 8) Sample was lost in transit or at the laboratory.
- 9)
- 10)

**TABLE 6: GROUNDWATER TREATMENT SYSTEM SAMPLE ANALYTICAL DATA**

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

| Sample ID | Sample Date | Notes | TOG (mg/L) | TPH-g (µg/L) | MTBE (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) |
|-----------|-------------|-------|------------|--------------|-------------|----------------|----------------|---------------------|----------------|
| INF       | 06/26/07    | 1     | -          | 20,000       | ND<1,500    | 1,400          | 2,300          | 350                 | 3,000          |
|           | 06/27/07    |       | -          | 25,000       | 1,300       | 2,300          | 3,400          | 490                 | 3,100          |
|           | 06/28/07    |       | -          | 28,000       | 1,500       | 2,300          | 4,800          | 540                 | 3,300          |
|           | 07/12/07    |       | -          | 8,300        | 150         | 660            | 1,500          | 120                 | 1,300          |
|           | 08/22/07    | 2     | -          | 16,000       | 130         | 610            | 2,000          | 300                 | 2,400          |
|           | 10/17/07    | 3,4   | -          | 25,000       | ND<250      | 990            | 3,000          | 380                 | 3,600          |
|           | 11/07/07    |       | -          | 21,000       | ND<500      | 730            | 2,600          | 300                 | 4,800          |
|           | 12/12/07    | 5     | -          | 75,000       | ND<250      | 1,200          | 9,900          | 1,700               | 12,000         |
|           | 01/08/08    |       | -          | 12,000       | 320         | 260            | 1,100          | 170                 | 2,900          |
|           | 03/18/08    |       | -          | 4,100        | 480         | 150            | 240            | 52                  | 520            |
|           | 04/01/08    |       | -          | 2,400        | 60          | 37             | 140            | 20                  | 390            |
|           | 04/30/08    |       | -          | 8,600        | 170         | 150            | 630            | 160                 | 2,200          |
|           | 05/29/08    |       | -          | 13,000       | 310         | 140            | 470            | 170                 | 1,800          |
|           | 06/26/08    |       | -          | 7,600        | 260         | 130            | 360            | 82                  | 1,100          |
|           | 07/30/08    |       | -          | 9,400        | 220         | 160            | 510            | 60                  | 1,100          |
|           | 09/30/08    |       | -          | 6,100        | 270         | 240            | 370            | 49                  | 780            |
|           | 11/04/08    |       | -          | 9,400        | 380         | 320            | 800            | 110                 | 1,800          |
|           | 12/02/08    |       | -          | 8,300        | 150         | 140            | 460            | 60                  | 1,700          |
|           | 01/06/09    |       | -          | 7,800        | ND<250      | 160            | 460            | 58                  | 1,600          |
|           | 02/09/09    |       | -          | 11,000       | 320         | 250            | 660            | 84                  | 1,700          |
| 03/18/09  | 7           | -     | 2,000      | -            | 96          | 180            | 21             | 220                 |                |
| 04/21/09  |             | -     | 590        | -            | 31          | 41             | 9              | 100                 |                |
| 05/19/09  |             | -     | 1,100      | -            | 53          | 99             | 15             | 190                 |                |
| POST-AS   | 06/26/07    | 1     | -          | 1,000        | 92          | 19             | 34             | 6.8                 | 48             |
|           | 06/27/07    |       | -          | 420          | 45          | 7.8            | 13             | 2.1                 | 22             |
|           | 06/28/07    |       | -          | 6,400        | 570         | 610            | 890            | 59                  | 750            |
|           | 07/12/07    |       | -          | -            | -           | -              | -              | -                   | -              |
|           | 08/22/07    | 2     | -          | 5,300        | 100         | 610            | 2,000          | 300                 | 2,400          |
|           | 10/17/07    | 3,4   | -          | 84           | 12          | 0.90           | 2.6            | ND<0.5              | 7              |
|           | 11/07/07    |       | -          | 120          | 41          | 0.71           | 1.9            | ND<0.5              | 12             |
|           | 12/12/07    | 5     | -          | 65,000       | ND<250      | 210            | 3,400          | 1,300               | 11,000         |
|           | 01/08/08    |       | -          | 130          | 55          | 0.85           | 2.8            | ND<0.5              | 12             |
|           | 03/18/08    |       | -          | 120          | 190         | 2.5            | 3.5            | 0.77                | 7.2            |
|           | 04/01/08    |       | -          | 140          | ND<5.0      | 5.6            | 0.60           | ND<0.5              | 1.7            |
|           | 04/30/08    |       | -          | ND<50        | 11          | 0.56           | ND<0.5         | ND<0.5              | 1.1            |
|           | 05/29/08    |       | -          | 100          | 20          | ND<0.5         | ND<0.5         | ND<0.5              | 6.7            |
|           | 06/26/08    |       | -          | 70           | 27          | ND<0.5         | 1.1            | ND<0.5              | 6.3            |
|           | 07/30/08    |       | -          | 130          | 16          | 1.1            | 3.3            | 0.73                | 10             |
|           | 09/30/08    |       | -          | 94           | 15          | 0.85           | 1.6            | ND<0.5              | 5              |
|           | 11/04/08    |       | -          | ND<50        | 27          | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         |
|           | 12/02/08    |       | -          | ND<50        | 6.3         | ND<0.5         | ND<0.5         | ND<0.5              | 1.5            |
|           | 01/06/09    |       | -          | ND<50        | 28          | ND<0.5         | ND<0.5         | ND<0.5              | 0.77           |
|           | 02/09/09    |       | -          | 250          | 37          | 3.1            | 8.7            | 1.3                 | 28             |
| 03/18/09  | 7           | -     | 120        | -            | 2.4         | 4.8            | 0.81           | 6.9                 |                |
| 04/21/09  |             | -     | ND<50      | -            | ND<0.5      | ND<0.5         | ND<0.5         | ND<0.5              |                |
| 05/19/09  |             | -     | 57         | -            | 1.1         | 2.3            | ND<0.5         | 4.4                 |                |
| POST-C1   | 06/26/07    | 1     | -          | ND<50        | ND<5.0      | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         |
|           | 08/22/07    | 2     | -          | ND<50        | ND<5.0      | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         |
|           | 10/17/07    | 3,4   | -          | ND<50        | ND<5.0      | ND<0.5         | ND<0.5         | ND<0.5              | ND<0.5         |

**TABLE 6: GROUNDWATER TREATMENT SYSTEM SAMPLE ANALYTICAL DATA**

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

| Sample ID       | Sample Date     | Notes | TOG (mg/L)       | TPH-g (µg/L)    | MTBE (µg/L)      | Benzene (µg/L)   | Toluene (µg/L)   | Ethylbenzene (µg/L) | Xylenes (µg/L)   |
|-----------------|-----------------|-------|------------------|-----------------|------------------|------------------|------------------|---------------------|------------------|
| <b>EFF</b>      | 06/26/07        | 1     | ND<5.0           | ND<50           | ND<5.0           | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 08/22/07        | 2     | -                | ND<50           | ND<5.0           | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 10/17/07        | 3,4   | -                | ND<50           | ND<5.0           | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 11/07/07        |       | -                | ND<50           | ND<5.0           | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 12/12/07        | 5     | -                | ND<50           | 17               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 01/08/08        |       | -                | ND<50           | 17               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 03/18/08        | 6     | ND<5.0           | ND<50           | 50               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 04/01/08        |       | -                | -               | -                | -                | -                | -                   | -                |
|                 | 04/30/08        |       | ND<5.0           | ND<50           | 30               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 05/29/08        |       | -                | ND<50           | 27               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 06/26/08        |       | -                | ND<50           | 37               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 07/30/08        |       | -                | ND<50           | 30               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 09/23/08        |       | ND<5.0           | -               | -                | -                | -                | -                   | -                |
|                 | 09/30/08        |       | -                | ND<50           | 18               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 11/04/08        |       | -                | ND<50           | 25               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 12/02/08        |       | -                | ND<50           | 17               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 01/06/09        |       | -                | ND<50           | 32               | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 02/09/09        |       | ND<5.0           | ND<50           | 9.9              | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | 03/18/09        | 7     | -                | ND<50           | -                | ND<0.5           | ND<0.5           | ND<0.5              | ND<0.5           |
|                 | <b>04/21/09</b> |       | <b>ND&lt;5.0</b> | <b>ND&lt;50</b> | -                | <b>ND&lt;0.5</b> | <b>ND&lt;0.5</b> | <b>ND&lt;0.5</b>    | <b>ND&lt;0.5</b> |
| <b>05/19/09</b> |                 | -     | <b>ND&lt;50</b>  | -               | <b>ND&lt;0.5</b> | <b>ND&lt;0.5</b> | <b>ND&lt;0.5</b> | <b>ND&lt;0.5</b>    |                  |
| <b>DL</b>       | -               | -     | <b>5.0</b>       | <b>50</b>       | <b>5.0</b>       | <b>0.5</b>       | <b>0.5</b>       | <b>0.5</b>          | <b>0.5</b>       |

**NOTES:**

- not sampled/analyzed

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

mg/L = milligrams per liter or parts per million (ppm)

TOG = total oil and grease hydrocarbon

TPH-g = total petroleum hydrocarbons as gasoline

MTBE = methyl tertiary-butyl ether

**DL = detection limit for dilution factor of 1**

TOG by EPA Method 1664 HEM-SGT

TPH-g by EPA Method 8015C

BTEX & MTBE by EPA Method 8021B

1) System startup and first discharge to sanitary sewer

2) Bag filter (LCO8) pre-filter for sediment removal installed and started up on 08/17/07

3) 1,000-pound (PV-1000) carbon absorber (up to 75 psig) installed on 10/5/07 and started up on 10/9/07

4) 200-pound (ASC-200) carbon absorber (i.e., C-2) taken offline permanently on 10/25/07

5) On November 20, 2007, extraction wells MW-10, MW-11, and MW-12 were brought online

6) Metal analysis no longer required per email from EBMUD, dated January 31, 2008

7) On February 27, 2009, the carbon in the PV1000 carbon absorber was changed out by Siemens Water Technologies

8)

9)

10)

**TABLE 7: SOIL GAS FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)**

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

| Soil Gas Probe ID | Date            | Notes    | Vacuum Influence (in-H2O) | Purge Vacuum (in-H2O) | TVH (ppmv) | CH4 (%)    | O2 (%)      | CO2 (%)    |     |
|-------------------|-----------------|----------|---------------------------|-----------------------|------------|------------|-------------|------------|-----|
| GP-1-5'           | 05/17/07        | 4        | 0.00                      | -                     | 0.11       | 0.0        | 18.0        | 2.2        |     |
|                   | 06/12/07        |          | 0.00                      | -                     | 0.0        | 0.0        | 18.6        | 2.4        |     |
|                   | 08/01/07        |          | 0.40                      | -                     | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 08/10/07        |          | 0.35                      | -                     | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 10/05/07        |          | 0.00                      | -                     | 0.0        | 0.0        | 20.9        | 0.3        |     |
|                   | 11/07/07        |          | 0.24                      | 1.50                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 11/21/07        |          | 0.84                      | 1.50                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 03/28/08        |          | <0.10                     | >50                   | 0.0        | xx         | 20.9        | 0.0        |     |
|                   | 04/30/08        | 5        | 0.00                      | <1.00                 | 0.0        | 0.0        | 20.9        | 0.1        |     |
|                   | 08/15/08        |          | 0.00                      | 1.50                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 11/11/08        |          | 0.20                      | 1.10                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 02/09/09        | 8        | 0.00                      | 1.00                  | 0.0        | 0.0        | 19.7        | 0.8        |     |
|                   | 03/10/09        |          | 0.00                      | 1.80                  | 0.0        | 0.0        | 19.3        | 1.3        |     |
|                   | 02/09/09        | 8        | 0.00                      | 1.00                  | 0.0        | 0.0        | 19.7        | 0.8        |     |
|                   | 03/10/09        |          | 0.00                      | 1.80                  | 0.0        | 0.0        | 19.3        | 1.3        |     |
|                   | <b>04/21/09</b> |          | <b>0.00</b>               | <b>1.50</b>           | <b>0.0</b> | <b>0.0</b> | <b>19.5</b> | <b>0.7</b> |     |
|                   | <b>05/01/09</b> |          | <b>0.00</b>               | <b>1.50</b>           | <b>0.0</b> | <b>0.0</b> | <b>20.4</b> | <b>0.6</b> |     |
|                   | GP-1-10'        | 05/17/07 | 4                         | 0.00                  | -          | -          | -           | -          | -   |
|                   |                 | 06/12/07 |                           | 0.00                  | -          | 0.0        | 0.0         | 18.7       | 2.2 |
| 08/01/07          |                 |          | 0.44                      | -                     | 0.0        | 0.0        | 20.9        | 0.0        |     |
| 08/10/07          |                 |          | 0.38                      | -                     | 0.0        |            | 20.9        | 0.0        |     |
| 10/05/07          |                 |          | 0.00                      | -                     | 0.0        | 0.0        | 20.9        | 0.3        |     |
| 11/07/07          |                 |          | 0.27                      | 2.00                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
| 11/21/07          |                 |          | 0.59                      | 1.50                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
| 03/28/08          |                 | 1        | -                         | -                     | -          | -          | -           | -          |     |
| 04/30/08          |                 | 5        | 0.14                      | <1.00                 | 0.0        | 0.0        | 20.9        | 0.1        |     |
| 08/15/08          |                 |          | 0.00                      | 1.00                  | 0.0        | 0.0        | 18.5        | 0.1        |     |
| 11/11/08          |                 |          | 0.19                      | 1.20                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
| 02/09/09          |                 | 8        | 0.00                      | 1.20                  | 10         | 0.0        | 19.8        | 0.7        |     |
| 03/10/09          |                 |          | 0.39                      | 9.00                  | 0.0        | 0.0        | 19.5        | 1.0        |     |
| 02/09/09          |                 | 8        | 0.00                      | 1.20                  | 10         | 0.0        | 19.8        | 0.7        |     |
| 03/10/09          |                 |          | 0.39                      | 9.00                  | 0.0        | 0.0        | 19.5        | 1.0        |     |
| <b>04/21/09</b>   |                 |          | <b>0.10</b>               | <b>6.00</b>           | <b>0.0</b> | <b>0.0</b> | <b>19.8</b> | <b>0.5</b> |     |
| <b>05/01/09</b>   |                 | 1        | -                         | -                     | -          | -          | -           | -          |     |
| GP-2-5'           |                 | 05/17/07 | 4                         | 0.00                  | -          | 0.14       | 0.0         | 19.0       | 1.5 |
|                   |                 | 06/12/07 |                           | 0.00                  | -          | 0.0        | 0.0         | 19.0       | 1.7 |
|                   | 08/01/07        |          | 0.00                      | -                     | 0.0        | 0.0        | 20.9        | 0.3        |     |
|                   | 08/10/07        |          | 0.04                      | -                     | 0.0        | 0.0        | 20.9        | 0.2        |     |
|                   | 10/05/07        |          | 0.00                      | -                     | 0.0        | 0.0        | 20.9        | 0.1        |     |
|                   | 11/07/07        |          | 0.08                      | 4.00                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 11/21/07        |          | 0.04                      | 1.50                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 03/28/08        | 1        | -                         | -                     | -          | -          | -           | -          |     |
|                   | 04/30/08        | 5        | 0.01                      | 2.00                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 08/15/08        |          | 0.00                      | 3.00                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 11/11/08        |          | 0.07                      | 1.80                  | 0.0        | 0.0        | 20.9        | 0.0        |     |
|                   | 02/09/09        | 8        | 0.00                      | 2.20                  | 0.0        | 0.0        | 20.7        | 0.2        |     |
|                   | 03/10/09        | 1        | -                         | -                     | -          | -          | -           | -          |     |
|                   | 02/09/09        | 8        | 0.00                      | 2.20                  | 0.0        | 0.0        | 20.7        | 0.2        |     |
|                   | 03/10/09        | 1        | -                         | -                     | -          | -          | -           | -          |     |
|                   | <b>04/21/09</b> |          | <b>0.00</b>               | <b>2.00</b>           | <b>0.0</b> | <b>0.0</b> | <b>20.9</b> | <b>0.0</b> |     |
|                   | <b>05/01/09</b> |          | <b>0.00</b>               | <b>2.00</b>           | <b>0.0</b> | <b>0.0</b> | <b>20.9</b> | <b>0.2</b> |     |

**TABLE 7: SOIL GAS FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)**

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

| Soil Gas Probe ID | Date            | Notes    | Vacuum Influence (in-H2O) | Purge Vacuum (in-H2O) | TVH (ppmv)  | CH4 (%)    | O2 (%)     | CO2 (%)     |            |
|-------------------|-----------------|----------|---------------------------|-----------------------|-------------|------------|------------|-------------|------------|
| <b>GP-2-10'</b>   | 05/17/07        | 4        | 0.00                      | -                     | 0.18        | 0.0        | 18.0       | 1.5         |            |
|                   | 06/12/07        | 2        | 0.00                      | -                     | -           | -          | -          | -           |            |
|                   | 08/01/07        |          | 0.08                      | -                     | 0.0         | 0.0        | 20.8       | 0.5         |            |
|                   | 08/10/07        |          | 0.00                      | -                     | 0.0         | 0.0        | 20.9       | 0.2         |            |
|                   | 10/05/07        |          | 0.00                      | -                     | 0.0         | 0.0        | 20.9       | 0.1         |            |
|                   | 11/07/07        |          | <0.10                     | 24.0                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 11/21/07        |          | 1.70                      | 35.0                  | 0.0         | -          | 20.9       | 0.0         |            |
|                   | 03/28/08        | 1        | -                         | -                     | -           | -          | -          | -           |            |
|                   | 04/30/08        | 5        | 3.50                      | 2.00                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 08/15/08        |          | 0.00                      | 3.00                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 11/11/08        |          | 1.80                      | 2.00                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 02/09/09        | 8,1      | -                         | -                     | -           | -          | -          | -           |            |
|                   | 03/10/09        | 1        | -                         | -                     | -           | -          | -          | -           |            |
|                   | 02/09/09        | 8,1      | -                         | -                     | -           | -          | -          | -           |            |
|                   | 03/10/09        | 1        | -                         | -                     | -           | -          | -          | -           |            |
|                   | <b>04/21/09</b> |          |                           | <b>0.50</b>           | <b>3.00</b> | <b>0.0</b> | <b>0.0</b> | <b>20.9</b> | <b>0.0</b> |
|                   | <b>05/01/09</b> | 1        | -                         | -                     | -           | -          | -          | -           |            |
| <b>GP-3-5'</b>    | 05/17/07        | 4        | 0.00                      | -                     | 0.14        | 0.0        | 20.0       | 0.48        |            |
|                   | 06/12/07        |          | 0.00                      | -                     | 0.0         | 0.0        | 20.9       | 0.4         |            |
|                   | 08/10/07        |          | 0.01                      | -                     | 0.0         | 0.0        | 20.9       | 0.3         |            |
|                   | 10/05/07        |          | 0.00                      | -                     | 0.0         | 0.0        | 20.9       | 0.2         |            |
|                   | 11/07/07        |          | <0.10                     | 1.00                  | 0.0         | 0.0        | 20.9       | 0.2         |            |
|                   | 11/21/07        |          | 0.05                      | 1.00                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 03/28/08        |          | <0.10                     | 43.0                  | 0.0         | xx         | 20.5       | 0.1         |            |
|                   | 04/30/08        | 5        | 0.02                      | <1.00                 | 0.0         | 0.0        | 20.9       | 0.1         |            |
|                   | 08/15/08        |          | 0.00                      | 1.00                  | 0.0         | 0.0        | 20.9       | 0.0         |            |
|                   | 11/11/08        | 6,7      | -                         | -                     | -           | -          | -          | -           |            |
|                   | <b>GP-3-10'</b> | 05/17/07 | 4                         | 0.00                  | -           | 0.37       | 0.0        | 2.4         | 3.4        |
| 06/12/07          |                 |          | 0.00                      | -                     | 0.0         | 0.0        | 10.5       | 1.8         |            |
| 08/10/07          |                 |          | 0.16                      | -                     | 0.0         | 0.0        | 16.8       | 2.2         |            |
| 10/05/07          |                 |          | 0.00                      | -                     | 0.0         | 0.0        | 20.8       | 1.2         |            |
| 11/07/07          |                 |          | 0.30                      | 55.0                  | 0.0         | 0.0        | 20.9       | 0.5         |            |
| 11/21/07          |                 |          | 5.20                      | 47.0                  | 0.0         | 0.0        | 20.9       | 0.2         |            |
| 03/28/08          |                 | 3        | 1.00                      | >150                  | 0.0         | xx         | 20.0       | 0.0         |            |
| 04/30/08          |                 | 5        | 9.00                      | 110                   | 0.0         | 0.0        | 20.9       | 0.1         |            |
| 08/15/08          |                 |          | 0.00                      | 50.0                  | -           | -          | 20.9       | 0.0         |            |
| 11/11/08          |                 | 6,7      | -                         | -                     | -           | -          | -          | -           |            |

**TABLE 7: SOIL GAS FIELD SCREENING DATA SUMMARY (TVH, CH4, O2, & CO2)**

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

| Soil Gas Probe ID | Date     | Notes    | Vacuum Influence (in-H2O) | Purge Vacuum (in-H2O) | TVH (ppmv)    | CH4 (%)    | O2 (%)     | CO2 (%)    |
|-------------------|----------|----------|---------------------------|-----------------------|---------------|------------|------------|------------|
| GP-4-5'           | 05/17/07 | 4        | 0.00                      | -                     | 0.21          | 0.0        | 20.0       | 0.7        |
|                   | 06/12/07 |          | 0.00                      | -                     | 0.0           | 0.0        | 20.8       | 0.6        |
|                   | 08/10/07 |          | 0.02                      | -                     | 0.0           | 0.0        | 20.9       | 0.4        |
|                   | 10/05/07 |          | 0.00                      | -                     | 0.0           | 0.0        | 20.9       | 0.5        |
|                   | 11/07/07 |          | <0.10                     | 0.85                  | 0.0           | 0.0        | 20.9       | 0.3        |
|                   | 11/21/07 |          | 0.00                      | 0.50                  | 0.0           | 0.0        | 20.9       | 0.0        |
|                   | 03/28/08 |          | <0.10                     | 47.0                  | 0.0           | xx         | 20.0       | 0.0        |
|                   | 04/30/08 | 5        | 0.02                      | <1.00                 | 0.0           | 0.0        | 20.9       | 0.2        |
|                   | 08/15/08 |          | 0.00                      | 1.00                  | -             | -          | 20.9       | 0.0        |
|                   | 11/11/08 | 6,7      | -                         | -                     | -             | -          | -          | -          |
|                   | GP-4-10' | 05/17/07 | 4                         | 0.00                  | -             | -          | -          | -          |
| 06/12/07          |          | 2        | 0.00                      | -                     | -             | -          | -          | -          |
| 08/10/07          |          |          | 0.08                      | -                     | 0.0           | 0.0        | 20.4       | 0.2        |
| 10/05/07          |          |          | 0.00                      | -                     | 0.0           | 0.0        | 20.9       | 0.5        |
| 11/07/07          |          |          | <0.1                      | 80.0                  | 0.0           | 0.0        | 20.9       | 0.3        |
| 11/21/07          |          |          | <0.1                      | >50.0                 | 0.0           | 0.0        | 20.9       | 0.0        |
| 03/28/08          |          | 2,3      | <0.1                      | >150                  | 0.0           | xx         | 20.5       | 0.0        |
| 04/30/08          |          | 1,5      | 0.20                      | >150                  | -             | -          | -          | -          |
| 08/15/08          |          |          | 0.00                      | >50.0                 | -             | -          | 19.0       | 0.1        |
| 11/11/08          |          | 6,7      | -                         | -                     | -             | -          | -          | -          |
| <b>DL</b>         |          | <b>-</b> | <b>-</b>                  | <b>varies</b>         | <b>varies</b> | <b>5.0</b> | <b>0.1</b> | <b>0.1</b> |

**NOTES:**

- not sampled/analyzed

in-H2O = inches of water

ppmv = parts per million by volume

% = percent concentration by volume

xx = methane sensor damaged; pending replacement

**DL = detection limit for dilution factor of 1**

TVH = total volatile hydrocarbons (calibrated w/ hexane)

CH4 = methane

O2 = oxygen

CO2 = carbon dioxide

TVH, CH4, O2, and CO2 measured w/ RKI Eagle gas detector

- 1) Soil gas sample collection not possible due to wet or saturated soil conditions
- 2) Moisture present within the sample tubing
- 3) High purge vacuum may indicate wet or saturated soil conditions
- 4) TPH-g by modified EPA Method TO-3 GC/FID and CH4, O2, and CO2 by modified method ASTM D-1946 GC/FID or GC/TCD
- 5) Soil gas probe screened for TVH, CH4, O2, and CO2 approximatley one week prior to sampling for vapor intrusion evaluation
- 6) Nested soil gas probes GP-3 and GP-4 were abandoned on August 21, 2008 during the HVDPE conveyance lateral installation
- 7) GP-4 and possibly GP-3 will be re-installed once the construction activities at 708 Alice Street are completed
- 8) HVDPE system was shutdownwn on January 6, 2009, approximatley one (1) month before screening GP-1 & GP-2

**TABLE 8: WELLHEAD VACUUM & DROP TUBE DEPTH DATA SUMMARY**

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

| Date            | MW-1                  |                        |                        | MW-2                  |                        |                        | MW-5                  |                        |                        | MW-6                  |                        |                        | MW-7                  |                        |                        |
|-----------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|
|                 | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) |
| 06/26/07        | 1.5                   | 8.0                    | 15.0                   | 6.0                   | 9.0                    | 15.0                   | -                     | OFF                    | -                      | 5.5                   | 10.0                   | 15.0                   | 6.5                   | 10.0                   | 15.0                   |
| 06/27/07        | 2.0                   | 7.0                    | 15.0                   | 5.5                   | 9.0                    | 15.0                   | -                     | OFF                    | -                      | 5.0                   | 9.5                    | 15.0                   | 5.0                   | 9.5                    | 15.0                   |
| 06/28/07        | 1.5                   | 8.0                    | 15.0                   | 5.0                   | 10.0                   | 15.0                   | -                     | OFF                    | -                      | 5.0                   | 9.0                    | 15.0                   | 6.0                   | 10.0                   | 15.0                   |
| 07/12/07        | 2.0                   | 8.0                    | 15.0                   | 6.0                   | 9.0                    | 15.0                   | 10.0                  | 12.0                   | 15.0                   | 5.0                   | 10.0                   | 15.0                   | 6.0                   | 10.0                   | 15.0                   |
| 08/01/07        | 1.5                   | 7.0                    | 15.0                   | 5.5                   | 10.0                   | 15.0                   | -                     | OFF                    | -                      | 5.0                   | 9.5                    | 15.0                   | 5.5                   | 11.0                   | 15.0                   |
| 08/10/07        | 5.0                   | 10.0                   | 17.0                   | 9.5                   | 16.0                   | 17.0                   | -                     | OFF                    | -                      | 10.0                  | 12.5                   | 17.0                   | 9.0                   | 15.5                   | 17.0                   |
| 09/11/07        | 5.5                   | 17.0                   | 16.0                   | 5.5                   | 16.5                   | 16.0                   | -                     | OFF                    | -                      | 9.0                   | 10.0                   | 19.5                   | 8.0                   | 12.0                   | 19.5                   |
| 09/28/07        | 3.0                   | 7.5                    | 24.0                   | 8.0                   | 17.0                   | 20.0                   | 2.5                   | 8.0                    | 20.0                   | 16.0                  | 17.0                   | 20.0                   | 9.0                   | 15.0                   | 20.0                   |
| 10/01/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |
| 11/21/07        | 3.0                   | 10.0                   | 25.0                   | 11.0                  | 15.0                   | 21.0                   | n/a                   | OFF                    | -                      | 12.0                  | 12.0                   | 20.0                   | OBSTRUCTED            |                        |                        |
| 12/26/07        | -                     | OFF                    | -                      | OBSTRUCTED            |                        |                        | n/a                   | OFF                    | -                      | 18.0                  | 13.5                   | 20.0                   | 11.5                  | 15.5                   | 20.0                   |
| 01/15/08        | -                     | OFF                    | -                      | 11.0                  | 14.0                   | 21.0                   | n/a                   | OFF                    | -                      | 16.5                  | 11.5                   | 20.0                   | 12.0                  | 14.0                   | 20.0                   |
| 02/07/08        | 5.0                   | 9.5                    | 25.0                   | 10.0                  | 13.0                   | 20.0                   | n/a                   | OFF                    | -                      | 15.5                  | 14.0                   | 19.0                   | 15.5                  | 21.0                   | 20.0                   |
| 03/18/08        | 9.0                   | 10.0                   | 25.0                   | 5.5                   | 11.5                   | 19.0                   | n/a                   | 9.5                    | 21.0                   | 8.0                   | 9.5                    | 20.0                   | 8.5                   | 12.0                   | 21.0                   |
| 04/24/08        | 7.0                   | 7.0                    | 25.0                   | 3.0                   | 7.0                    | 19.0                   | -                     | 7.0                    | 21.0                   | 5.0                   | 5.0                    | 21.0                   | 4.0                   | 7.0                    | 21.0                   |
| 05/29/08        | 0.0                   | 0.0                    | 25.0                   | 0.0                   | 0.0                    | 19.0                   | n/a                   | 0.0                    | 21.0                   | 0.0                   | 0.0                    | 21.0                   | 0.0                   | 0.0                    | 21.0                   |
| 06/26/08        | 0.0                   | 0.0                    | 25.0                   | 0.0                   | 0.0                    | 20.0                   | n/a                   | 0.0                    | 22.0                   | 0.0                   | 0.0                    | 21.0                   | 0.0                   | 0.0                    | 21.0                   |
| 07/30/08        | OFF                   | OFF                    | 25.0                   | OFF                   | OFF                    | 20.0                   | OFF                   | OFF                    | 22.0                   | 5.0                   | 15.0                   | 21.0                   | 4.5                   | 15.0                   | 21.0                   |
| 09/30/08        | OFF                   | OFF                    | 25.0                   | OFF                   | OFF                    | 20.0                   | n/a                   | 8.0                    | 22.0                   | OFF                   | OFF                    | 21.0                   | OFF                   | OFF                    | 21.0                   |
| 11/04/08        | 3.0                   | 8.0                    | 25.0                   | 3.0                   | 8.0                    | 20.0                   | n/a                   | 8.0                    | 22.0                   | 5.0                   | 10.0                   | 21.0                   | 5.0                   | 10.0                   | 21.0                   |
| 12/02/08        | 2.5                   | 8.0                    | 25.0                   | 5.0                   | 9.0                    | 20.0                   | n/a                   | 12.0                   | 22.0                   | 7.0                   | 10.0                   | 21.0                   | 6.0                   | 11.0                   | 21.0                   |
| 01/06/09        | 3.0                   | 9.0                    | 25.0                   | 5.0                   | 10.0                   | 20.0                   | n/a                   | 11.0                   | 22.0                   | 8.0                   | 9.0                    | 21.0                   | 6.0                   | 10.0                   | 21.0                   |
| 02/09/09        | 2.5                   | 10.0                   | 25.0                   | 5.0                   | 11.0                   | 20.0                   | n/a                   | 12.0                   | 22.0                   | 7.0                   | 10.0                   | 21.0                   | 6.0                   | 11.0                   | 21.0                   |
| 03/18/09        | 2.5                   | 9.0                    | 25.0                   | 5.0                   | 9.0                    | 20.0                   | n/a                   | 8.0                    | 22.0                   | 7.0                   | 9.0                    | 21.0                   | 6.0                   | 9.0                    | 21.0                   |
| <b>04/21/09</b> | <b>3.0</b>            | <b>10.0</b>            | <b>25.0</b>            | <b>5.0</b>            | <b>9.0</b>             | <b>20.0</b>            | <b>n/a</b>            | <b>10.0</b>            | <b>22.0</b>            | <b>7.0</b>            | <b>9.0</b>             | <b>21.0</b>            | <b>6.0</b>            | <b>9.0</b>             | <b>21.0</b>            |
| <b>05/19/09</b> | <b>3.0</b>            | <b>9.0</b>             | <b>25.0</b>            | <b>6.0</b>            | <b>11.0</b>            | <b>20.0</b>            | <b>n/a</b>            | <b>9.0</b>             | <b>22.0</b>            | <b>8.0</b>            | <b>9.0</b>             | <b>21.0</b>            | <b>6.0</b>            | <b>9.0</b>             | <b>21.0</b>            |

**NOTES:**

in-Hg = inches of mercury (gauge pressure)

ft toc = depth in feet as measured from the top of the well casing

n/a = casing vacuum gauges not installed at this well



**TABLE 8: WELLHEAD VACUUM & DROP TUBE DEPTH DATA SUMMARY**

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

| Date            | MW-10                 |                        |                        | MW-11                 |                        |                        | MW-12                 |                        |                        |                       |                        |                        |                       |                        |                        |
|-----------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|
|                 | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) | Casing Vacuum (in-Hg) | Stinger Vacuum (in-Hg) | Stinger Depth (ft toc) |
| 06/28/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 07/12/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 08/01/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 08/10/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 09/11/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 09/28/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 10/01/07        | -                     | -                      | -                      | -                     | -                      | -                      | -                     | -                      | -                      |                       |                        |                        |                       |                        |                        |
| 11/21/07        | n/a                   | 13.0                   | 18.0                   | n/a                   | 11.0                   | 19.0                   | n/a                   | 14.0                   | 19.0                   |                       |                        |                        |                       |                        |                        |
| 12/26/07        | n/a                   | 11.0                   | 18.0                   | n/a                   | 10.5                   | 19.0                   | n/a                   | 14.5                   | 19.0                   |                       |                        |                        |                       |                        |                        |
| 01/15/08        | n/a                   | 10.0                   | 18.0                   | n/a                   | 9.0                    | 19.0                   | n/a                   | 12.0                   | 19.0                   |                       |                        |                        |                       |                        |                        |
| 02/01/08        | n/a                   | 9.0                    | 18.0                   | n/a                   | 10.0                   | 19.0                   | n/a                   | 15.0                   | 19.0                   |                       |                        |                        |                       |                        |                        |
| 03/18/08        | n/a                   | 7.5                    | 18.0                   | n/a                   | 9.0                    | 19.0                   | n/a                   | 9.0                    | 20.5                   |                       |                        |                        |                       |                        |                        |
| 04/24/08        | n/a                   | 0.0                    | 18.0                   | n/a                   | 0.0                    | 19.0                   | n/a                   | 4.0                    | 19.0                   |                       |                        |                        |                       |                        |                        |
| 05/29/08        | n/a                   | 11.0                   | 20.0                   | n/a                   | 14.0                   | 20.0                   | n/a                   | 13.0                   | 20.0                   |                       |                        |                        |                       |                        |                        |
| 06/26/08        | n/a                   | 12.0                   | 20.0                   | n/a                   | 15.0                   | 20.0                   | n/a                   | 14.0                   | 20.0                   |                       |                        |                        |                       |                        |                        |
| 07/30/08        | n/a                   | 10.0                   | 20.0                   | n/a                   | 13.0                   | 20.0                   | n/a                   | 12.0                   | 20.0                   |                       |                        |                        |                       |                        |                        |
| 09/30/08        | n/a                   | 15.0                   | 22.0                   | n/a                   | 15.0                   | 22.0                   | n/a                   | 15.0                   | 22.0                   |                       |                        |                        |                       |                        |                        |
| 11/04/08        | n/a                   | 10.0                   | 22.0                   | n/a                   | 15.0                   | 22.0                   | n/a                   | 15.0                   | 22.0                   |                       |                        |                        |                       |                        |                        |
| 12/02/08        | n/a                   | 10.0                   | 22.0                   | n/a                   | 11.0                   | 22.0                   | n/a                   | 11.0                   | 22.0                   |                       |                        |                        |                       |                        |                        |
| 01/06/09        | n/a                   | 10.0                   | 22.0                   | n/a                   | 11.0                   | 22.0                   | n/a                   | 11.0                   | 22.0                   |                       |                        |                        |                       |                        |                        |
| 02/09/09        | n/a                   | 10.0                   | 22.0                   | n/a                   | 11.0                   | 22.0                   | n/a                   | 12.0                   | 22.0                   |                       |                        |                        |                       |                        |                        |
| 3/18/09`        | n/a                   | 9.0                    | 22.0                   | n/a                   | 9.0                    | 22.0                   | n/a                   | 9.0                    | 22.0                   |                       |                        |                        |                       |                        |                        |
| <b>04/21/09</b> | <b>n/a</b>            | <b>10.0</b>            | <b>22.0</b>            | <b>n/a</b>            | <b>9.0</b>             | <b>22.0</b>            | <b>n/a</b>            | <b>10.0</b>            | <b>22.0</b>            |                       |                        |                        |                       |                        |                        |
| <b>05/19/09</b> | <b>n/a</b>            | <b>9.0</b>             | <b>22.0</b>            | <b>n/a</b>            | <b>10.0</b>            | <b>22.0</b>            | <b>n/a</b>            | <b>10.0</b>            | <b>22.0</b>            |                       |                        |                        |                       |                        |                        |

**NOTES:**

in-Hg = inches of mercury (gauge pressure)

ft toc = depth in feet as measured from the top of the well casing

n/a = casing vacuum gauges not installed at this well

**TABLE 9: HVDPE PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date     | Notes     | Possible Runtime (days) | Possible Runtime (hrs) | Hour Meter Reading | Actual Runtime (days) | Actual Runtime (hrs) | System Runtime (%) | Inlet Temp (°F) | Inlet Vac (in-Hg) | Well Velocity (fpm) | Well Flow (scfm) | PRED TPH-g (ppmv) | Mass Removal Rate (lbs/day) | Total Mass Removed (pounds) | Total Mass Removed (gallons) |
|-----------------|-----------|-------------------------|------------------------|--------------------|-----------------------|----------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------------------|-----------------------------|-----------------------------|------------------------------|
| 06/28/07        | 1 Startup | -                       | -                      | 10                 | -                     | -                    | -                  | 60              | 18                | 850                 | 42               | -                 | -                           | 0                           | 0                            |
| 07/11/07        |           | 13                      | 312                    | 53                 | 2                     | 43                   | 14%                | 60              | 22                | 1,725               | 85               | 6,600             | 224                         | 402                         | 67                           |
| 07/27/07        |           | 16                      | 384                    | 103                | 2                     | 51                   | 13%                | 60              | 20                | 1,700               | 83               | 11,000            | 368                         | 1,180                       | 197                          |
| 08/01/07        |           | 5                       | 120                    | 160                | 2                     | 57                   | 47%                | 60              | 19                | 1,900               | 93               | 5,500             | 206                         | 1,668                       | 278                          |
| 08/10/07        | 2,3       | 9                       | 216                    | 350                | 8                     | 189                  | 88%                | 60              | 22                | 1,800               | 88               | 7,700             | 273                         | 3,820                       | 637                          |
| 09/28/07        | 4         | 49                      | 1176                   | 896                | 23                    | 546                  | 46%                | 60              | 20                | 1,700               | 83               | 4,000             | 134                         | 6,865                       | 1,144                        |
| 10/17/07        |           | 19                      | 456                    | 1,239              | 14                    | 343                  | 75%                | 60              | 21                | 1,100               | 54               | 5,100             | 110                         | 8,446                       | 1,408                        |
| 11/08/07        |           | 22                      | 528                    | 1,709              | 20                    | 470                  | 89%                | 60              | 22                | 1,100               | 54               | 4,000             | 87                          | 10,141                      | 1,690                        |
| 11/16/07        |           | 8                       | 192                    | 1,874              | 7                     | 166                  | 86%                | 60              | 21                | 1,100               | 54               | 6,000             | 130                         | 11,038                      | 1,840                        |
| 11/21/07        | 5         | 5                       | 120                    | 1,994              | 5                     | 120                  | 100%               | 60              | 20.5              | 1,500               | 74               | 2,500             | 74                          | 11,407                      | 1,901                        |
| 12/04/07        |           | 13                      | 312                    | 2,231              | 10                    | 236                  | 76%                | 60              | 20                | 1,150               | 56               | 7,900             | 179                         | 13,168                      | 2,195                        |
| 12/26/07        |           | 22                      | 528                    | 2,566              | 14                    | 335                  | 63%                | 60              | 18                | 1,300               | 64               | 4,100             | 105                         | 14,633                      | 2,439                        |
| 01/15/08        |           | 20                      | 480                    | 3,016              | 19                    | 451                  | 94%                | 60              | 19                | 1,200               | 59               | 1,900             | 45                          | 15,476                      | 2,579                        |
| 01/22/08        | 6,7       | 7                       | 168                    | 3,064              | 2                     | 48                   | 29%                | 60              | 18                | 1,500               | 74               | 1,900             | 56                          | 15,589                      | 2,598                        |
| 01/31/08        |           | 9                       | 216                    | 3,276              | 9                     | 212                  | 98%                | 60              | 20                | 1,250               | 61               | 2,200             | 54                          | 16,067                      | 2,678                        |
| 02/07/08        |           | 7                       | 168                    | 3,443              | 7                     | 167                  | 99%                | 60              | 22                | 1,100               | 54               | 2,000             | 43                          | 16,368                      | 2,728                        |
| 03/18/08        | 8,9       | 40                      | 960                    | 3,653              | 9                     | 210                  | 22%                | 60              | 15                | 1,400               | 69               | 630               | 17                          | 16,520                      | 2,753                        |
| 04/01/08        |           | 14                      | 336                    | 3,952              | 12                    | 299                  | 89%                | 60              | 19                | 1,500               | 74               | 2,100             | 62                          | 17,292                      | 2,882                        |
| 04/30/08        |           | 29                      | 696                    | 4,591              | 27                    | 639                  | 92%                | 60              | 19                | 1,900               | 93               | 2,100             | 79                          | 19,383                      | 3,231                        |
| 05/29/08        |           | 29                      | 696                    | 4,978              | 16                    | 387                  | 56%                | 60              | 19.5              | 900                 | 44               | 2,100             | 37                          | 19,983                      | 3,331                        |
| 06/26/08        |           | 28                      | 672                    | 5,489              | 21                    | 511                  | 76%                | 60              | 23                | 1,200               | 59               | 860               | 20                          | 20,416                      | 3,403                        |
| 07/30/08        |           | 34                      | 816                    | 6,184              | 29                    | 694                  | 85%                | 60              | 17                | 1,600               | 79               | 2,200             | 69                          | 22,422                      | 3,737                        |
| 09/30/08        |           | 62                      | 1488                   | 6,673              | 20                    | 489                  | 33%                | 60              | 9                 | 2,000               | 98               | 1,100             | 43                          | 23,304                      | 3,884                        |
| 11/04/08        |           | 35                      | 840                    | 7,062              | 16                    | 389                  | 46%                | 60              | 11                | 1,200               | 59               | 2,700             | 64                          | 24,339                      | 4,057                        |
| 12/02/08        |           | 28                      | 672                    | 7,697              | 26                    | 635                  | 94%                | 60              | 10                | 1,200               | 59               | 2,200             | 52                          | 25,715                      | 4,286                        |
| 01/06/09        |           | 35                      | 840                    | 8,298              | 25                    | 601                  | 72%                | 60              | 11                | 1,200               | 59               | 1,200             | 28                          | 26,425                      | 4,404                        |
| 02/09/09        |           | 34                      | 816                    | 8,300              | 0.1                   | 2                    | 0%                 | 60              | 12                | 1,200               | 59               | 1,200             | 28                          | 26,427                      | 4,405                        |
| 03/18/09        |           | 37                      | 888                    | 8,320              | 0.8                   | 20                   | 2%                 | 60              | 10                | 1,400               | 69               | 130               | 4                           | 26,430                      | 4,405                        |
| <b>04/21/09</b> |           | <b>34</b>               | <b>816</b>             | <b>8,975</b>       | <b>27.3</b>           | <b>655</b>           | <b>80%</b>         | <b>60</b>       | <b>11</b>         | <b>1,400</b>        | <b>69</b>        | <b>58</b>         | <b>2</b>                    | <b>26,474</b>               | <b>4,412</b>                 |
| <b>05/19/09</b> |           | <b>28</b>               | <b>672</b>             | <b>9,001</b>       | <b>1.1</b>            | <b>26</b>            | <b>4%</b>          | <b>60</b>       | <b>10</b>         | <b>1,250</b>        | <b>61</b>        | <b>190</b>        | <b>5</b>                    | <b>26,479</b>               | <b>4,413</b>                 |
| <b>AVG</b>      | <b>-</b>  | <b>-</b>                | <b>-</b>               | <b>-</b>           | <b>-</b>              | <b>-</b>             | <b>42%</b>         | <b>60</b>       | <b>11</b>         | <b>1,325</b>        | <b>65</b>        | <b>124</b>        | <b>3</b>                    | <b>-</b>                    | <b>-</b>                     |

**TABLE 9: HVDPE PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date | Notes | Possible Runtime (days) | Possible Runtime (hrs) | Hour Meter Reading | Actual Runtime (days) | Actual Runtime (hrs) | System Runtime (%) | Inlet Temp (°F) | Inlet Vac (in-Hg) | Well Velocity (fpm) | Well Flow (scfm) | PRED TPH-g (ppmv) | Mass Removal Rate (lbs/day) | Total Mass Removed (pounds) | Total Mass Removed (gallons) |
|-------------|-------|-------------------------|------------------------|--------------------|-----------------------|----------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------------------|-----------------------------|-----------------------------|------------------------------|
|-------------|-------|-------------------------|------------------------|--------------------|-----------------------|----------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------------------|-----------------------------|-----------------------------|------------------------------|

**NOTES:**

ppmv = parts per million by volume

TPH-g = total petroleum hydrocarbons as gasoline

TPH-g by EPA Method 8015C

in-Hg = inches of mercury (gauge pressure)

hrs = hours

- not analyzed/applicable

fpm = feet per minute

scfm = standard cubic feet per minute

Flow = Velocity x Cross Sectional Area of the Pipe

Cross Sectional Area of 3" Pipe = 0.0491 ft<sup>2</sup>

Well Flow = Well Velocity \* 0.0491

PRED = TPH-g influent concentration

1) System installed and started up on June 26, 2007

2) Propane delivery missed; system shutdown on 08/06/07

3) Propane delivery missed; system shutdown on 08/21/07

4) System down between 09/11 and 09/24/08 due to electrical problems

5) System expanded; MW-10, MW-11 and MW-12 extraction added online

6) Propane delivery missed; system shutdown on 01/02/08

7) Propane delivery missed; system shutdown on 01/22/08

8) System shutdown most of February to evaluate free product recovery

9) Catalyst module installed and started up in March

10)

**MASS REMOVAL RATE (MRR) ESTIMATE ASSUMPTIONS:**

MRR Estimate = (20,000\*10<sup>-6</sup>)\*(50scfm)\*(1440min/day)\*(28.32L/ft<sup>3</sup>)\*(1mol/22.4L)\*(100g/mol)\*(11b/454g)

Negligible change in air density, constant concentration and average molecular weight

1 mole occupies 22.4 Liters at STP

STP is 21°C and 1 atm

MW<sub>gas</sub> = 100 grams/mole (weathered gasoline)

1 day = 1440 minutes

1ft<sup>3</sup> = 28.38 liters

1 lb = 454 grams

1 gallon gas ~ 6 pounds

AVG = average values in red for the current reporting period

**TABLE 10: THERMAL/CATALYTIC OXIDIZER PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date     | Notes     | Possible Runtime (days) | Possible Runtime (hrs) | Hour Meter Reading | Actual Runtime (days) | Actual Runtime (hrs) | System Runtime (%) | Preheat Temp (°F) | Exhaust Temp (°F) | Total Velocity (fpm) | Total Flow (scfm) | POSTD TPH-g (ppmv) | STACK TPH-g (ppmv) | Abatement Efficiency (%) | TPH-g Destruction Rate (lbs/day) | Total TPH-g Destroyed (pounds) | Total TPH-g Destroyed (gallons) | Total TPH-g Destroyed (btu) |
|-----------------|-----------|-------------------------|------------------------|--------------------|-----------------------|----------------------|--------------------|-------------------|-------------------|----------------------|-------------------|--------------------|--------------------|--------------------------|----------------------------------|--------------------------------|---------------------------------|-----------------------------|
| 06/28/07        | 1 Startup | -                       | -                      | 10                 | 0.4                   | 10                   | -                  | 1,430             | 1,427             | 2,150                | 106               | 3,800              | 3.5                | 99.91%                   | 161                              | 65                             | 11                              | 1,233,826                   |
| 07/11/07        |           | 13                      | 312                    | 53                 | 2                     | 43                   | 14%                | 1,478             | 1,392             | 2,625                | 129               | 1,400              | 3.5                | 99.75%                   | 72                               | 195                            | 32                              | 3,701,491                   |
| 07/27/07        |           | 16                      | 384                    | 103                | 2                     | 51                   | 13%                | 1,428             | 1,386             | 2,600                | 128               | 3,400              | 3.5                | 99.90%                   | 174                              | 562                            | 94                              | 10,692,358                  |
| 08/01/07        |           | 5                       | 120                    | 160                | 2                     | 57                   | 47%                | 1,425             | 1,377             | 2,800                | 137               | 2,500              | 3.5                | 99.86%                   | 138                              | 890                            | 148                             | 16,916,123                  |
| 08/10/07        | 2,3       | 9                       | 216                    | 350                | 8                     | 189                  | 88%                | 1,411             | 1,341             | 2,000                | 98                | 5,300              | 3.5                | 99.93%                   | 209                              | 2,535                          | 422                             | 48,204,535                  |
| 09/28/07        | 4         | 49                      | 1176                   | 896                | 23                    | 546                  | 46%                | 1,471             | 1,438             | 3,000                | 147               | 4,800              | 3.5                | 99.93%                   | 284                              | 8,984                          | 1,497                           | 170,844,523                 |
| 10/17/07        |           | 19                      | 456                    | 1,239              | 14                    | 343                  | 75%                | 1,409             | 1,365             | 2,400                | 118               | 1,800              | 3.5                | 99.81%                   | 85                               | 10,201                         | 1,700                           | 193,992,681                 |
| 11/08/07        |           | 22                      | 528                    | 1,709              | 20                    | 470                  | 89%                | 1,412             | 1,342             | 2,000                | 98                | 2,000              | 21                 | 98.95%                   | 79                               | 11,742                         | 1,957                           | 223,297,250                 |
| 11/16/07        |           | 8                       | 192                    | 1,874              | 7                     | 166                  | 86%                | 1,408             | 1,347             | 2,000                | 98                | 3,600              | 3.5                | 99.90%                   | 142                              | 12,721                         | 2,120                           | 241,905,549                 |
| 11/21/07        | 5         | 5                       | 120                    | 1,994              | 5                     | 120                  | 100%               | 1,412             | 1,308             | 2,400                | 118               | 5,500              | 3.5                | 99.94%                   | 260                              | 14,022                         | 2,337                           | 266,642,477                 |
| 12/04/07        |           | 13                      | 312                    | 2,231              | 10                    | 236                  | 76%                | 1,416             | 1,312             | 2,050                | 101               | 1,300              | 3.5                | 99.73%                   | 52                               | 14,538                         | 2,423                           | 276,461,730                 |
| 12/26/07        |           | 22                      | 528                    | 2,566              | 14                    | 335                  | 63%                | 1,408             | 1,352             | 2,200                | 108               | 1,700              | 3.5                | 99.79%                   | 74                               | 15,566                         | 2,594                           | 296,020,076                 |
| 01/15/08        |           | 20                      | 480                    | 3,016              | 19                    | 451                  | 94%                | 1,411             | 1,357             | 2,100                | 103               | 620                | 3.5                | 99.44%                   | 26                               | 16,048                         | 2,675                           | 305,174,194                 |
| 01/22/08        | 6,7       | 7                       | 168                    | 3,064              | 2                     | 48                   | 29%                | 1,407             | 1,348             | 2,400                | 118               | 1,100              | 3.5                | 99.68%                   | 52                               | 16,152                         | 2,692                           | 307,153,643                 |
| 01/31/08        |           | 9                       | 216                    | 3,276              | 9                     | 212                  | 98%                | 1,348             | 1,267             | 2,150                | 106               | 770                | 3.5                | 99.55%                   | 33                               | 16,440                         | 2,740                           | 312,628,082                 |
| 02/07/08        |           | 7                       | 168                    | 3,443              | 7                     | 167                  | 99%                | 1,409             | 1,333             | 2,000                | 98                | 690                | 3.5                | 99.49%                   | 27                               | 16,628                         | 2,771                           | 316,215,556                 |
| 03/18/08        | 8,9       | 40                      | 960                    | 3,653              | 9                     | 210                  | 22%                | 705               | 794               | 2,300                | 113               | 310                | 3.5                | 98.87%                   | 14                               | 16,751                         | 2,792                           | 318,555,075                 |
| 04/01/08        |           | 14                      | 336                    | 3,952              | 12                    | 299                  | 89%                | 703               | 751               | 3,100                | 152               | 500                | 3.5                | 99.30%                   | 31                               | 17,131                         | 2,855                           | 325,777,446                 |
| 04/30/08        |           | 29                      | 696                    | 4,591              | 27                    | 639                  | 92%                | 709               | 792               | 2,700                | 133               | 700                | 3.5                | 99.50%                   | 37                               | 18,122                         | 3,020                           | 344,619,107                 |
| 05/29/08        |           | 29                      | 696                    | 4,978              | 16                    | 387                  | 56%                | 703               | 769               | 1,800                | 88                | 500                | 3.5                | 99.30%                   | 18                               | 18,408                         | 3,068                           | 350,052,986                 |
| 06/26/08        |           | 28                      | 672                    | 5,489              | 21                    | 511                  | 76%                | 802               | 841               | 2,500                | 123               | 620                | 3.5                | 99.44%                   | 31                               | 19,057                         | 3,176                           | 362,409,874                 |
| 07/30/08        | 10        | 34                      | 816                    | 6,184              | 29                    | 695                  | 85%                | 705               | 797               | 2,800                | 137               | -                  | 3.5                | -                        | -                                | -                              | -                               | -                           |
| 09/30/08        |           | 62                      | 1488                   | 6,673              | 20                    | 489                  | 33%                | 759               | 855               | 3,200                | 157               | -                  | 3.5                | -                        | -                                | -                              | -                               | -                           |
| 11/04/08        |           | 35                      | 840                    | 7,062              | 16                    | 389                  | 46%                | 702               | 832               | 2,600                | 128               | -                  | 3.5                | -                        | -                                | -                              | -                               | -                           |
| 12/02/08        |           | 28                      | 672                    | 7,697              | 26                    | 635                  | 94%                | 704               | 812               | 2,100                | 103               | -                  | 52                 | -                        | -                                | -                              | -                               | -                           |
| 01/06/09        |           | 35                      | 840                    | 8,298              | 25                    | 601                  | 72%                | 704               | 817               | 3,100                | 152               | -                  | 26                 | -                        | -                                | -                              | -                               | -                           |
| 02/09/09        |           | 34                      | 816                    | 8,300              | 0.1                   | 2                    | 0%                 | 701               | 819               | 3,100                | 152               | -                  | 3.5                | -                        | -                                | -                              | -                               | -                           |
| 03/18/09        |           | 37                      | 888                    | 8,320              | 0.8                   | 20                   | 2%                 | 706               | 780               | 3,000                | 147               | -                  | 3.5                | -                        | -                                | -                              | -                               | -                           |
| <b>04/21/09</b> |           | <b>34</b>               | <b>816</b>             | <b>8,975</b>       | <b>27</b>             | <b>655</b>           | <b>80%</b>         | <b>704</b>        | <b>760</b>        | <b>2,600</b>         | <b>128</b>        | -                  | <b>3.5</b>         | -                        | -                                | -                              | -                               | -                           |
| <b>05/19/09</b> |           | <b>28</b>               | <b>672</b>             | <b>9,001</b>       | <b>1.1</b>            | <b>26</b>            | <b>4%</b>          | <b>705</b>        | <b>797</b>        | <b>2,800</b>         | <b>137</b>        | -                  | <b>3.5</b>         | -                        | -                                | -                              | -                               | -                           |
| <b>AVG</b>      | <b>-</b>  | <b>-</b>                | <b>-</b>               | <b>-</b>           | <b>-</b>              | <b>-</b>             | <b>42%</b>         | <b>705</b>        | <b>779</b>        | <b>2,700</b>         | <b>133</b>        | <b>-</b>           | <b>3.5</b>         | <b>-</b>                 | <b>-</b>                         | <b>-</b>                       | <b>-</b>                        | <b>-</b>                    |

**NOTES:**

ppmv = parts per million by volume  
 TPH-g = total petroleum hydrocarbons as gasoline  
 TPH-g by EPA Method 8015C  
 hrs = hours  
 - not analyzed/applicable  
 fpm = feet per minute  
 scfm = standard cubic feet per minute  
 btu = british thermal units  
 Flow = Velocity x Cross Sectional Area of the Pipe  
 Cross Sectional Area of 3" Pipe = 0.0491 ft<sup>2</sup>  
 Total Flow = Total Velocity \* 0.0491  
 POSTD = TPH-g influent concentration (after dilution)  
 DL = detection limit  
 1/2 the DL was used for abatement efficiency calculations  
 DL for TPH-g by EPA Method 8015C = 7.0 ppmv

- 1) System installed and started up on June 26, 2007
- 2) Propane delivery missed; system shutdown on 08/06/07
- 3) Propane delivery missed; system shutdown on 08/21/07
- 4) System down between 09/11 and 09/24/08 due to electrical problems
- 5) System expanded; MW-10, MW-11 and MW-12 extraction added online
- 6) Propane delivery missed; system shutdown on 01/02/08
- 7) Propane delivery missed; system shutdown on 01/22/08
- 8) System shutdown most of February to evaluate free product recovery
- 9) Catalyst module installed and started up in March
- 10) Sampling POSTD was discontinued starting in the Third Quarter, 2008 monitoring and reporting period

**MASS REMOVAL RATE (MRR) ESTIMATE ASSUMPTIONS:**

MRR Estimate = (20,000\*10<sup>-6</sup>)\*(50scfm)\*(1440min/day)\*(28.32L/ft<sup>3</sup>)\*(1mol/22.4L)\*(100g/mol)\*(1lb/454g)  
 Negligible change in air density, constant concentration and average molecular weight  
 1 mole occupies 22.4 Liters at STP  
 STP is 21°C and 1 atm  
 MWgas = 100 grams/mole (weathered gasoline)  
 1 day = 1440 minutes  
 1 ft<sup>3</sup> = 28.32 liters  
 1 lb = 454 grams  
 1 gallon gas ~ 6 pounds  
 1 gallon gas ~ 114,100 btu  
**AVG = average values in red for the current reporting period**

**TABLE 11: AIR STRIPPER PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date | Notes | Hour Meter Reading | Actual Runtime (days) | Blower VFD (Hz) | Back Pressure (in-H2O) | Outlet Velocity (fpm) | Outlet Flow (scfm) | Effluent TPH-g Conc. (ppmv) | Influent TPH-g Conc. (µg/L) | Effluent TPH-g Conc. (µg/L) | Removal Efficiency (%) |
|-------------|-------|--------------------|-----------------------|-----------------|------------------------|-----------------------|--------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 06/26/07    | 1     | 0                  | -                     | 45              | 25                     | 2,600                 | 128                | -                           | 20,000                      | 1,000                       | 95.0%                  |
| 06/27/08    |       | 5                  | 0.20                  | 45              | 25                     | 2,600                 | 128                | -                           | 25,000                      | 420                         | 98.3%                  |
| 06/28/07    |       | 10                 | 0.20                  | 25              | 10                     | 1,300                 | 64                 | -                           | 28,000                      | 6,400                       | 77.1%                  |
| 07/03/07    |       | -                  | -                     | 40              | 20                     | 2,300                 | 113                | -                           | -                           | -                           | -                      |
| 07/11/07    |       | -                  | -                     | 40              | 20                     | 2,300                 | 113                | -                           | -                           | -                           | -                      |
| 07/11/07    |       | -                  | -                     | 20              | 5                      | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 07/12/07    |       | 70                 | 3                     | 20              | 5                      | 900                   | 44                 | -                           | 8,300                       | -                           | -                      |
| 07/12/07    |       | 70                 | 0                     | 15              | 4                      | 600                   | 29                 | -                           | 8,300                       | -                           | -                      |
| 07/27/07    |       | -                  | -                     | 20              | 6                      | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 08/01/07    |       | -                  | -                     | 20              | 6                      | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 08/10/07    |       | -                  | -                     | 10              | 2                      | 200                   | 10                 | -                           | -                           | -                           | -                      |
| 08/07/07    |       | -                  | -                     | 15              | 3                      | 600                   | 29                 | -                           | -                           | -                           | -                      |
| 08/21/07    |       | -                  | -                     | 20              | 18                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 08/22/07    |       | 530                | 19                    | 15              | 5                      | 600                   | 29                 | -                           | 16,000                      | 5,300                       | 66.9%                  |
| 09/28/07    |       | -                  | -                     | 25              | 16                     | 1,300                 | 64                 | -                           | -                           | -                           | -                      |
| 10/17/07    |       | 1,239              | 30                    | 25              | 15                     | 1,300                 | 64                 | 130                         | 25,000                      | 84                          | 99.7%                  |
| 10/23/07    |       | -                  | -                     | 25              | 15                     | 1,300                 | 64                 | -                           | -                           | -                           | -                      |
| 10/25/07    |       | -                  | -                     | 20              | 15                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 11/07/07    |       | 1,709              | 20                    | 20              | 16                     | 900                   | 44                 | -                           | 21,000                      | 120                         | 99.4%                  |
| 11/08/07    |       | -                  | -                     | 20              | 16                     | 900                   | 44                 | 19                          | -                           | -                           | -                      |
| 11/16/07    |       | -                  | -                     | 20              | 16                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 11/20/07    |       | -                  | -                     | 20              | 18                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 11/21/07    |       | -                  | -                     | 20              | 18.5                   | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 11/27/07    |       | -                  | -                     | 20              | 20                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 12/04/07    |       | -                  | -                     | 20              | 19                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 12/12/07    | 3     | 2,366              | 27                    | 20              | 18                     | 900                   | 44                 | -                           | 75,000                      | 65,000                      | 13.3%                  |
| 12/14/07    |       | -                  | -                     | 20              | 18                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 12/25/07    |       | -                  | -                     | 20              | 20                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 12/26/07    |       | -                  | -                     | 20              | 20                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 01/08/08    |       | 2,815              | 19                    | 20              | 19.5                   | 900                   | 44                 | -                           | 12,000                      | 130                         | 98.9%                  |
| 01/15/08    |       | -                  | -                     | 20              | 19.0                   | 900                   | 44                 | 1,100                       | -                           | -                           | -                      |
| 01/24/08    |       | -                  | -                     | 20              | 19.0                   | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 01/31/08    |       | -                  | -                     | 20              | 18.5                   | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 01/31/08    |       | -                  | -                     | 20              | 12.5                   | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 02/07/08    |       | -                  | -                     | 20              | 15                     | 900                   | 44                 | 31                          | -                           | -                           | -                      |
| 02/12/08    |       | -                  | -                     | 20              | 15                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 03/18/08    |       | 3,653              | 35                    | 20              | 15                     | 900                   | 44                 | 31                          | 4,100                       | 120                         | 97.1%                  |
| 03/28/08    |       | -                  | -                     | 20              | 16                     | 900                   | 44                 | -                           | -                           | -                           | -                      |
| 04/01/08    |       | 3,953              | 12                    | 20              | 15                     | 900                   | 44                 | -                           | 2,400                       | 140                         | 94.2%                  |
| 04/30/08    |       | 4,591              | 27                    | 20              | 15                     | 900                   | 44                 | 37                          | 8,600                       | 25                          | 99.7%                  |
| 05/29/08    |       | 4,978              | 16                    | 20              | 17.5                   | 900                   | 44                 | ND<7.0                      | 13,000                      | 100                         | 99.2%                  |
| 06/26/08    |       | 5,489              | 21                    | 20              | 20                     | 1,300                 | 64                 | 44                          | 7,600                       | 70                          | 99.1%                  |
| 07/30/08    |       | 6,184              | 29                    | 30              | 17.5                   | 1,200                 | 59                 | 41                          | 9,400                       | 130                         | 98.6%                  |
| 09/30/08    |       | 6,673              | 20                    | 30              | 19                     | 1,200                 | 59                 | -                           | 6,100                       | 94                          | 98.5%                  |
| 11/04/08    | 4     | 7,062              | 16                    | 30              | 16                     | 1,200                 | 59                 | 21                          | 9,400                       | ND<50                       | 99.7%                  |
| 12/02/08    | 5     | 7,697              | 26                    | 30              | 17                     | 1,200                 | 59                 | 10                          | 8,300                       | ND<50                       | 99.7%                  |

**TABLE 11: AIR STRIPPER PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date     | Notes    | Hour Meter Reading | Actual Runtime (days) | Blower VFD (Hz) | Back Pressure (in-H2O) | Outlet Velocity (fpm) | Outlet Flow (scfm) | Effluent TPH-g Conc. (ppmv) | Influent TPH-g Conc. (µg/L) | Effluent TPH-g Conc. (µg/L) | Removal Efficiency (%) |
|-----------------|----------|--------------------|-----------------------|-----------------|------------------------|-----------------------|--------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 01/06/09        |          | 8,298              | 25                    | 30              | 17.5                   | 1,200                 | 59                 | 150                         | 7,800                       | ND<50                       | 99.7%                  |
| 02/09/09        |          | 8,300              | 0.1                   | 30              | 17                     | 1,200                 | 59                 | 18                          | 11,000                      | 250                         | 97.7%                  |
| 03/18/09        |          | 8,320              | 1                     | 30              | 17.5                   | 1,200                 | 59                 | ND<7.0                      | 2,000                       | 120                         | 94.0%                  |
| <b>04/21/09</b> |          | <b>8,975</b>       | <b>27</b>             | <b>30</b>       | <b>17</b>              | <b>1,200</b>          | <b>59</b>          | <b>ND&lt;7.0</b>            | <b>590</b>                  | <b>ND&lt;50</b>             | <b>95.8%</b>           |
| <b>05/19/09</b> |          | <b>9,001</b>       | <b>1</b>              | <b>30</b>       | <b>17</b>              | <b>1,200</b>          | <b>59</b>          | <b>ND&lt;7.0</b>            | <b>1,100</b>                | <b>57</b>                   | <b>97.7%</b>           |
| <b>AVG</b>      | <b>-</b> | <b>-</b>           | <b>-</b>              | <b>30</b>       | <b>17</b>              | <b>1,200</b>          | <b>59</b>          | <b>-</b>                    | <b>845</b>                  | <b>57</b>                   | <b>96.7%</b>           |

**NOTES:**

Hz = hertz (used to control flow rate)

AVG = average values in red for the current reporting period

in-H2O = inches of water

scfm = standard cubic feet per minute

ppmv = parts per million by volume

µg/L = micrograms per Liter of water

- 1) System started up and first discharge to the sanitary sewer 6)
- 2) Air stripper cleaned due to high backpressure 7)
- 3) Slug of free product may have been processed by air stripper 8)
- 4) First time air stripper effluent was non-detect for TPH-g 9)
- 5) Second time air stripper effluent was non-detect for TPH-g 10)

**TABLE 12: ACTIVATED CARBON ABSORBER PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date | Notes | Hour Meter Reading | Actual Runtime (days) | Flow Totalizer (gallons) | Gallons Pumped/Treated | Average Flow Rate (gpd) | Average Flow Rate (gph) | Average Flow Rate (gpm) | Bag filter *Inlet Pressure (psig) | Bag filter *Outlet Pressure (psig) | GAC-1 ** Inlet Pressure (psig) | GAC-2 **Inlet Pressure (psig) | Bag filter Changed? (Y/N) | GAC Back-washed? (Y/N) | GAC Changed? (Y/N) | TPH-g Influent Conc. (µg/L) | TPH-g Effluent Conc. (µg/L) | Removal Efficiency (%) | Mass Removal Rate (lbs/day) | Total Mass Removed (lbs) | Total Mass Removed (gallons) |
|-------------|-------|--------------------|-----------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------|-------------------------------|---------------------------|------------------------|--------------------|-----------------------------|-----------------------------|------------------------|-----------------------------|--------------------------|------------------------------|
| 06/26/07    | 1     | 0                  | -                     | 0                        | -                      | -                       | -                       | -                       | -                                 | -                                  | 1.5                            | <1.0                          | -                         | N                      | N                  | 1,000                       | 25                          | 97.50%                 | -                           | -                        | -                            |
| 06/27/07    |       | 5                  | 0.2                   | 780                      | 780                    | 3,868                   | 161                     | 2.69                    | -                                 | -                                  | 1.5                            | <1.0                          | -                         | N                      | N                  | 420                         | 25                          | 94.05%                 | 0.0127                      | 0.0026                   | 0.00                         |
| 06/28/07    |       | 10                 | 0.2                   | 1,300                    | 520                    | 2,579                   | 107                     | 1.79                    | -                                 | -                                  | 1.5                            | <1.0                          | -                         | N                      | N                  | 6,400                       | 25                          | 99.61%                 | 0.1369                      | 0.0302                   | 0.01                         |
| 07/03/07    |       | 13                 | 0.2                   | 1,800                    | 500                    | 3,166                   | 132                     | 2.20                    | -                                 | -                                  | 1.5                            | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/09/07    |       | 25                 | 0.5                   | 4,310                    | 2,510                  | 5,171                   | 215                     | 3.59                    | -                                 | -                                  | 2                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/10/07    |       | 28                 | 0.1                   | 5,000                    | 690                    | 5,224                   | 218                     | 3.63                    | -                                 | -                                  | 3                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/11/07    |       | 53                 | 1.0                   | 7,280                    | 2,280                  | 2,240                   | 93                      | 1.56                    | -                                 | -                                  | 3                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/12/07    |       | 70                 | 0.7                   | 7,400                    | 120                    | 162                     | 7                       | 0.11                    | -                                 | -                                  | 5                              | <1.0                          | -                         | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/27/07    |       | 103                | 1.4                   | 8,580                    | 1,180                  | 860                     | 35.8                    | 0.60                    | -                                 | -                                  | 2                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 07/30/07    |       | 121                | 0.7                   | 9,200                    | 620                    | 844                     | 35                      | 0.59                    | -                                 | -                                  | 2                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/01/07    |       | 160                | 1.6                   | 13,400                   | 4,200                  | 2,560                   | 107                     | 1.78                    | -                                 | -                                  | 5                              | <1.0                          | -                         | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/07/07    |       | 279                | 4.9                   | 14,470                   | 1,070                  | 217                     | 9.0                     | 0.15                    | -                                 | -                                  | 2                              | <1.0                          | -                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/17/07    | 2     | 445                | 6.9                   | 25,000                   | 10,530                 | 1,522                   | 63.4                    | 1.06                    | 2                                 | 2.5                                | 2.5                            | <1.0                          | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/21/07    |       | 506                | 2.6                   | 33,000                   | 8,000                  | 3,135                   | 131                     | 2.18                    | 7                                 | 2.5                                | 2.5                            | <1.0                          | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/22/07    |       | 530                | 1.0                   | 34,110                   | 1,110                  | 46                      | 0.77                    | 2                       | 2                                 | 2.5                                | 2.5                            | <1.0                          | N                         | N                      | N                  | 5,300                       | 25                          | 99.53%                 | 0.0488                      | 1.47                     | 0.25                         |
| 08/23/07    |       | 554                | 1.0                   | 36,710                   | 2,600                  | 2,590                   | 108                     | 1.80                    | 2                                 | 2.5                                | 2.5                            | <1.0                          | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/27/07    |       | 648                | 3.9                   | 45,800                   | 9,090                  | 2,311                   | 96                      | 1.60                    | 10                                | >7                                 | >7                             | -                             | Y                         | Y                      | Y                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 08/31/07    |       | 744                | 4.0                   | 50,820                   | 5,020                  | 1,255                   | 52                      | 0.87                    | 2                                 | 2.5                                | 2.5                            | <1.0                          | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 09/05/07    |       | 862                | 4.9                   | 57,100                   | 6,280                  | 1,277                   | 53                      | 0.89                    | 10                                | 2.5                                | 2.5                            | <1.0                          | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 09/24/07    |       | 896                | 1.4                   | 65,360                   | 8,260                  | 6,004                   | 250                     | 4.17                    | 10                                | 2.5                                | 2.5                            | <1.0                          | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 10/01/07    |       | 1,088              | 8.0                   | 99,000                   | 33,640                 | 4,205                   | 175                     | 2.92                    | 15                                | >10                                | >10                            | 2                             | Y                         | N                      | Y                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 10/17/07    | 3     | 1,239              | 6.3                   | 140,710                  | 41,710                 | 6,609                   | 275                     | 4.59                    | 11                                | 4                                  | 4                              | 2                             | N                         | N                      | N                  | 84                          | 25                          | 70.24%                 | 0.0032                      | 1.52                     | 0.25                         |
| 10/23/07    |       | 1,384              | 6.0                   | 173,260                  | 32,550                 | 5,389                   | 225                     | 3.74                    | 24                                | 7.5                                | 7.5                            | 2.5                           | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 10/25/07    | 4     | 1,395              | 0.5                   | 175,600                  | 2,340                  | 4,918                   | 205                     | 3.42                    | >30 / 7.5                         | 8 / 8                              | 8 / 8                          | >5 / >5                       | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/07/07    |       | 1,709              | 13                    | 223,380                  | 47,780                 | 3,661                   | 153                     | 2.54                    | 14                                | 14.5                               | 14.5                           | OFFLINE                       | Y                         | N                      | N                  | 120                         | 25                          | 79.17%                 | 0.0029                      | 1.59                     | 0.26                         |
| 11/08/07    |       | 1,730              | 0.9                   | 227,190                  | 3,810                  | 4,354                   | 181                     | 3.02                    | 16                                | 16.5                               | 16.5                           | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/13/07    |       | 1,809              | 3.3                   | 244,360                  | 17,170                 | 5,220                   | 217.5                   | 3.62                    | 14                                | 14.5                               | 15                             | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/16/07    |       | 1,874              | 2.7                   | 259,600                  | 15,240                 | 5,566                   | 232                     | 3.87                    | 17                                | 17.5                               | 18                             | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/20/07    | 5     | 1,969              | 3.9                   | 279,190                  | 19,590                 | 4,983                   | 208                     | 3.46                    | 19                                | 19.5                               | 20                             | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/21/07    |       | 1,993              | 1.0                   | 287,450                  | 8,260                  | 8,260                   | 344                     | 5.74                    | 19                                | 19.5                               | 20                             | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/27/07    |       | 2,107              | 4.7                   | 320,320                  | 32,870                 | 6,921                   | 288                     | 4.81                    | 20.5                              | 21.5                               | 21.5                           | OFFLINE                       | Y                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 11/29/07    |       | 2,131              | 1.0                   | 328,040                  | 7,720                  | 7,504                   | 313                     | 5.21                    | 18 / 4.5                          | 18.5 / 5.5                         | 19 / 6.0                       | OFFLINE                       | Y                         | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 12/04/07    |       | 2,230              | 4.1                   | 355,820                  | 27,780                 | 6,763                   | 282                     | 4.70                    | 17 / 7                            | 17.5 / 7.5                         | 17.5 / 7.5                     | OFFLINE                       | Y                         | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 12/12/07    |       | 2,366              | 5.7                   | 391,500                  | 35,680                 | 6,296                   | 262                     | 4.37                    | 20 / 5                            | 10 / 4.5                           | 10 / 4.5                       | OFFLINE                       | Y                         | Y                      | N                  | 65,000                      | 25                          | 99.96%                 | 3.4067                      | 92.55                    | 15.42                        |
| 12/14/07    |       | 2,379              | 0.6                   | 395,260                  | 3,760                  | 6,670                   | 278                     | 4.63                    | 11                                | 4.0                                | 4.5                            | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 12/26/07    |       | 2,545              | 6.9                   | 440,900                  | 45,640                 | 6,603                   | 275                     | 4.59                    | 13                                | 13.5                               | 14                             | OFFLINE                       | N                         | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |

**TABLE 12: ACTIVATED CARBON ABSORBER PERFORMANCE & MASS REMOVAL DATA SUMMARY**

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

| Sample Date     | Notes    | Hour Meter Reading | Actual Runtime (days) | Flow Totalizer (gallons) | Gallons Pumped/Treated | Average Flow Rate (gpd) | Average Flow Rate (gph) | Average Flow Rate (gpm) | Bag filter *Inlet Pressure (psig) | Bag filter *Outlet Pressure (psig) | GAC-1 ** Inlet Pressure (psig) | GAC-2 **Inlet Pressure (psig) | Bag filter Changed? (Y/N) | GAC Back-washed? (Y/N) | GAC Changed? (Y/N) | TPH-g Influent Conc. (µg/L) | TPH-g Effluent Conc. (µg/L) | Removal Efficiency (%) | Mass Removal Rate (lbs/day) | Total Mass Removed (lbs) | Total Mass Removed (gallons) |
|-----------------|----------|--------------------|-----------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------|-------------------------------|---------------------------|------------------------|--------------------|-----------------------------|-----------------------------|------------------------|-----------------------------|--------------------------|------------------------------|
| 01/08/08        |          | 2,815              | 11                    | 512,760                  | 71,860                 | 6,398                   | 267                     | 4.44                    | 18.5                              | 19                                 | 19                             | OFFLINE                       | OFFLINE                   | N                      | N                  | 130                         | 25                          | 80.77%                 | 0.0056                      | 92.66                    | 15.44                        |
| 01/15/08        |          | 3,016              | 8.4                   | 541,920                  | 29,160                 | 3,472                   | 145                     | 2.41                    | 19                                | 20                                 | 20                             | OFFLINE                       | OFFLINE                   | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 01/22/08        |          | 3,064              | 2.0                   | 550,780                  | 8,860                  | 4,424                   | 184                     | 3.07                    | 16.5 / 4                          | 17 / 4                             | 17 / 4                         | OFFLINE                       | OFFLINE                   | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 01/31/08        |          | 3,276              | 8.8                   | 608,890                  | 58,110                 | 6,580                   | 274                     | 4.57                    | 16 / 8                            | 16.5 / 8.5                         | 16.5 / 8.5                     | OFFLINE                       | OFFLINE                   | Y                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 02/07/08        |          | 3,443              | 6.9                   | 657,140                  | 48,250                 | 6,950                   | 290                     | 4.83                    | 19                                | 19.5                               | 19.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 02/12/08        |          | 3,559              | 4.8                   | 685,990                  | 28,850                 | 5,957                   | 248                     | 4.14                    | 25.5                              | 26                                 | 26                             | OFFLINE                       | OFFLINE                   | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 03/18/08        |          | 3,653              | 3.9                   | 715,480                  | 29,490                 | 7,523                   | 313                     | 5.22                    | 16.5                              | 17                                 | 17                             | OFFLINE                       | OFFLINE                   | Y                      | N                  | 120                         | 25                          | 79.17%                 | 0.0060                      | 92.82                    | 15.47                        |
| 03/28/08        |          | 3,851              | 8.2                   | 760,730                  | 45,250                 | 5,499                   | 229                     | 3.82                    | 4                                 | 4.5                                | 4.5                            | OFFLINE                       | OFFLINE                   | N                      | N                  | -                           | -                           | -                      | -                           | -                        | -                            |
| 04/01/08        |          | 3,953              | 4.3                   | 771,940                  | 11,210                 | 2,637                   | 110                     | 1.83                    | 9.5                               | 10                                 | 10                             | OFFLINE                       | OFFLINE                   | N                      | N                  | 2,400                       | 25                          | 98.96%                 | 0.0522                      | 94.52                    | 15.75                        |
| 04/30/08        |          | 4,591              | 27                    | 858,530                  | 86,590                 | 3,254                   | 136                     | 2.26                    | 17                                | 17.5                               | 17.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 8,600                       | 25                          | 99.71%                 | 0.2324                      | 103.03                   | 17.17                        |
| 05/29/08        |          | 4,978              | 16                    | 931,605                  | 73,075                 | 4,532                   | 189                     | 3.15                    | 23                                | 23.5                               | 23.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 13,000                      | 25                          | 99.81%                 | 0.4896                      | 110.93                   | 18.49                        |
| 06/26/08        |          | 5,489              | 21                    | 1,039,610                | 108,005                | 5,075                   | 211                     | 3.52                    | 25                                | 26                                 | 26                             | OFFLINE                       | OFFLINE                   | N                      | N                  | 7,600                       | 25                          | 99.67%                 | 0.3201                      | 117.74                   | 19.62                        |
| 07/30/08        |          | 6,184              | 29                    | 1,061,870                | 22,260                 | 769                     | 32                      | 0.53                    | 26                                | 26.5                               | 26.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 9,400                       | 25                          | 99.73%                 | 0.0601                      | 119.48                   | 19.91                        |
| 09/30/08        |          | 6,673              | 20                    | 1,111,770                | 49,900                 | 2,449                   | 102                     | 1.70                    | 23                                | 24.5                               | 24.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 6,100                       | 25                          | 99.59%                 | 0.1239                      | 122.00                   | 20.33                        |
| 11/04/08        |          | 7,062              | 16                    | 1,181,610                | 69,840                 | 4,305                   | 179                     | 2.99                    | 22                                | 22.5                               | 22.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 9,400                       | 25                          | 99.73%                 | 0.3360                      | 127.45                   | 21.24                        |
| 12/02/08        |          | 7,697              | 26                    | 1,281,070                | 99,460                 | 3,759                   | 157                     | 2.61                    | 28                                | 28.5                               | 28.5                           | OFFLINE                       | OFFLINE                   | N                      | N                  | 8,300                       | 25                          | 99.70%                 | 0.2590                      | 134.31                   | 22.38                        |
| 01/06/09        |          | 8,298              | 25                    | 1,381,550                | 100,480                | 4,013                   | 167                     | 2.79                    | >30                               | >30                                | >30                            | OFFLINE                       | OFFLINE                   | N                      | N                  | 7,800                       | 25                          | 99.68%                 | 0.2598                      | 140.81                   | 23.47                        |
| 02/09/09        |          | 8,300              | 0.1                   | 1,381,550                | 0                      | 0                       | 0                       | 0.00                    | -                                 | -                                  | -                              | OFFLINE                       | OFFLINE                   | N                      | N                  | 11,000                      | 25                          | 99.77%                 | 0.0000                      | 140.81                   | 23.47                        |
| 03/18/09        | 6        | 8,320              | 0.8                   | 1,385,760                | 4,210                  | 5,002                   | 208                     | 3.47                    | 5                                 | 5                                  | 5                              | OFFLINE                       | OFFLINE                   | N                      | N                  | 2,000                       | 25                          | 98.75%                 | 0.0823                      | 140.88                   | 23.48                        |
| <b>04/21/09</b> |          | <b>8,975</b>       | <b>27</b>             | <b>1,462,030</b>         | <b>76,270</b>          | <b>2,795</b>            | <b>116</b>              | <b>1.94</b>             | <b>5</b>                          | <b>5</b>                           | <b>5</b>                       | <b>OFFLINE</b>                | <b>OFFLINE</b>            | <b>N</b>               | <b>N</b>           | <b>590</b>                  | <b>25</b>                   | <b>95.76%</b>          | <b>0.0132</b>               | <b>141.24</b>            | <b>23.54</b>                 |
| <b>05/20/09</b> |          | <b>9,001</b>       | <b>1.1</b>            | <b>1,465,550</b>         | <b>3,520</b>           | <b>3,253</b>            | <b>136</b>              | <b>2.26</b>             | <b>5</b>                          | <b>5</b>                           | <b>5</b>                       | <b>OFFLINE</b>                | <b>OFFLINE</b>            | <b>N</b>               | <b>N</b>           | <b>1,100</b>                | <b>25</b>                   | <b>97.73%</b>          | <b>0.0291</b>               | <b>141.27</b>            | <b>23.55</b>                 |
| <b>AVG</b>      | <b>-</b> | <b>-</b>           | <b>-</b>              | <b>-</b>                 | <b>-</b>               | <b>3,024</b>            | <b>126</b>              | <b>2.10</b>             | <b>-</b>                          | <b>-</b>                           | <b>-</b>                       | <b>-</b>                      | <b>-</b>                  | <b>-</b>               | <b>-</b>           | <b>845</b>                  | <b>25</b>                   | <b>96.74%</b>          | <b>0.0211</b>               | <b>-</b>                 | <b>-</b>                     |

**NOTES:**

gpd = gallons per day  
 gph = gallons per hour  
 gpm = gallons per minute  
 psig = pounds per square inch  
 µg/L = micrograms per Liter of water (ppb)  
 lbs/day = pounds per day  
 GAC = granular activated carbon  
 Conc. = concentration  
 TPH-g = Total Petroleum Hydrocarbons as Gasoline  
 TPH-g by EPA Method 8015C

Minimum EBMUD wastewater discharge permit reporting requirements are:  
 - monthly flow totalizer readings  
 - volume of groundwater treated during this reporting period  
 - total volume of groundwater treated to date  
 - description of any operational changes during this reporting period

Mass Removal Rate (lbs/day) = (1 gal/min)\*(1,000µg/L - 25µg/L)\*(3.785L/gallon)\*(1440/min/day)\*(2.2lbs/10<sup>9</sup>µg)  
 Total Mass Removed (lbs) = (1 gallon)\*(1,000µg/L - 25µg/L)\*(3.785L/gallon)\*(2.2lbs/10<sup>9</sup>µg)  
 1 gallon of gas = ~ 6 pounds  
 1/2 the DL was used for removal efficiency and mass removal calculations  
 DL for TPH-g by modified EPA Method 8015C = 50 µg/L  
**AVG = average values in red for the current reporting period**

\*Bag filter inlet and outlet pressures are recorded before and after the bag filter is changed using the following convention: (pressure before / pressure after)  
 \*\*GAC inlet and outlet pressures are recorded before and after the vessel is backwashed using the following convention: (pressure before / pressure after)

- 1) System startup and first discharge to sanitary sewer
- 2) Bag filter (LCO8) pre-filter for sediment removal installed and started up on 08/17/07
- 3) 1,000-pound (PV-1000) carbon absorber (up to 75 psig) installed on 10/5/07 and started up on 10/9/07
- 4) 200-pound (ASC-200) carbon absorber (i.e., C-2) taken offline permanently on 10/25/07
- 5) Extraction wells MW-10, MW-11, and MW-12 brought online 11/20/07
- 6) On February 27, 2009, the carbon in the PV1000 carbon absorber was changed out by Siemens Water Technologies
- 7)
- 8)
- 9)
- 10)



**TABLE 13: HVDPE PROCESS MONITORING SCHEDULE**

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

| Field Point Name | Sample Port Description/Location  | TPH-g (SW8015Cm) | BTEX & MTBE (SW8021B) | TVH (ppmv) | CH4 (%) | O2 (%) | CO2 (%) |
|------------------|-----------------------------------|------------------|-----------------------|------------|---------|--------|---------|
| MW-1S            | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-2S            | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-5S            | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-6S            | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-7S            | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-10S           | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-11S           | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| MW-12S           | Sample Port at DPE Manifold       | M                | M                     | M          | M       | M      | M       |
| PRED             | Influent Vapor Sample Port        | M                | M                     | M          | M       | M      | M       |
| POSTD            | Oxidizer Inlet Sample Port        | M                | M                     | M          | M       | M      | M       |
| AS               | Stripper Outlet Vapor Sample Port | M                | M                     | M          | M       | M      | M       |
| STACK            | Stack Gas Discharge Sample Port   | M                | M                     | M          | M       | M      | M       |
| GP-1-5'          | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-1-10'         | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-2-5'          | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-2-10'         | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-3-5'          | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-3-10'         | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-4-5'          | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| GP-4-10'         | Permanent Soil Gas Probe          | -                | -                     | Q          | Q       | Q      | Q       |
| INF              | Influent Water Sample Port        | M                | M                     | -          | -       | -      | -       |
| POST-AS          | Water Sample Port After Stripper  | M                | M                     | -          | -       | -      | -       |
| POST-C1          | Water Sample Port After C-1       | M                | M                     | -          | -       | -      | -       |
| EFF              | Effluent Water Sample Port        | M                | M                     | -          | -       | -      | -       |

**NOTES:**

W = weekly

BW = bi-weekly

M = monthly

A = annual

SA = semi-annual

AN = as needed

SP = sample port

HC = total volatile hydrocarbon

ppmv = parts per million by volume

% = percent concentration by volume

TVH = total volatile hydrocarbons (calibrated w/ hexane)

CH4 = methane

O2 = oxygen

CO2 = carbon dioxide

TVH, CH4, O2, and CO2 measured w/ RKI Eagle gas detector

\*Additional water analysis for Total Oil and Grease Hydrocarbon by Method HEM-1664SGT required every 6 months by EBMUD permit

\*\*POSTD and STACK required every month by BAAQMD permit

\*\*\*Soil gas sampling for vapor intrusion evaluation is conducted quarterly with routine groundwater monitoring events

**APPENDIX A**

**MONITORING WELL FIELD SAMPLING FORMS**

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-1**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 15.69  |                 |   |
| Depth to Free Product (from top of casing)  | None observed                                  |                 |   |
| Water Elevation (feet above msl)  | 16.86  |                 |   |
| 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) | <b>24.0</b>                                    |                 |   |
| Actual Volume Purged (gallons)  | 24.0   |                 |   |
| Appearance of Purge Water   | Initially black, slightly black after 1 gallon |                 |   |
| Free Product Present?   | No   | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | 3 VOAs |      |           |                |
|----------------------------------|-------------------|---------------------|--------------|--------|------|-----------|----------------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO     | PH   | ORP (meV) | Comments       |
| 8:44                             | 1                 | 18.55               | 959          | 1.90   | 7.00 | -168.8    | Black          |
|                                  | 2                 | 18.64               | 965          | 1.43   | 7.21 | -179.1    | Slightly black |
|                                  | 3                 | 18.63               | 963          | 1.60   | 7.27 | -183.7    | Slightly black |
|                                  | 4                 | 18.61               | 947          | 0.89   | 7.30 | -183.5    | Slightly black |
| 9:09                             | 8                 | 18.62               | 870          | 0.60   | 7.26 | -151.3    | Slightly black |
|                                  | 12                | 18.78               | 638          | 1.64   | 7.17 | -109      | Slightly black |
|                                  | 16                | 18.88               | 546          | 1.28   | 7.17 | -97.1     | Slightly black |
|                                  | 20                | 18.82               | 521          | 2.65   | 7.13 | -90.8     | Slightly black |
| 9:15                             | 24                | 18.82               | 519          | 2.57   | 7.10 | -90.5     | Slightly black |
|                                  |                   |                     |              |        |      |           |                |

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

|                              |
|------------------------------|
| Strong petroleum odors noted |
| Well dry at 14 gallons       |
|                              |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-2**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 17.52                                      |                 |   |
| Water Elevation (feet above msl)  | 15.72                                      |                 |   |
| Well Volumes Purged   | 3  |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | <b>5.0</b>                                 |                 |   |
| Actual Volume Purged (gallons)  | 5.0  |                 |   |
| Appearance of Purge Water   | Initially light brown, clears at 3 gallons |                 |   |
| Free Product Present?   | No   | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | 3 VOAs |      |           |             |
|----------------------------------|-------------------|---------------------|--------------|--------|------|-----------|-------------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO     | PH   | ORP (meV) | Comments    |
| 10:15                            | 1                 | 18.32               | 626          | 0.45   | 7.06 | -113.0    | Light brown |
|                                  | 2                 | 18.30               | 548          | 0.61   | 7.04 | -91.5     | Light brown |
|                                  | 3                 | 18.31               | 537          | 0.66   | 7.00 | -80.4     | Clear       |
|                                  | 4                 | 18.36               | 546          | 0.43   | 7.00 | -79.7     | Clear       |
|                                  | 5                 | 18.38               | 547          | 0.33   | 6.99 | -78.9     | Clear       |
| 10:20                            | 6                 | 18.39               | 546          | 0.28   | 6.99 | -78.3     | Clear       |

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

|                                |
|--------------------------------|
| Moderate petroleum odors noted |
|                                |
|                                |
|                                |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-3**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 17.78  |                 |   |
| Water Elevation (feet above msl)  | 16.47  |                 |   |
| Well Volumes Purged   | 3  |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 14.0   |                 |   |
| Actual Volume Purged (gallons)  | 15   |                 |   |
| Appearance of Purge Water   | Initially light brown, clears after 1 gallon |                 |   |
| Free Product Present?   | No   | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | 3 VOAs |      |           |             |
|----------------------------------|-------------------|---------------------|--------------|--------|------|-----------|-------------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO     | PH   | ORP (meV) | Comments    |
| 7:35                             | 1                 | 18.56               | 325          | 7.40   | 6.93 | -24.9     | Light brown |
|                                  | 2                 | 18.68               | 356          | 6.04   | 6.85 | -33.6     | clear       |
|                                  | 3                 | 18.68               | 326          | 4.52   | 6.79 | -24.2     | clear       |
|                                  | 4                 | 18.69               | 338          | 2.81   | 6.75 | -32.0     | clear       |
|                                  | 5                 | 18.69               | 342          | 2.37   | 6.74 | -31.2     | clear       |
|                                  | 6                 | 18.69               | 351          | 1.69   | 6.73 | -50.7     | clear       |
|                                  | 7                 | 18.76               | 377          | 1.06   | 6.74 | -58.4     | clear       |
| 7:42                             | 9                 | 18.74               | 387          | 0.93   | 6.74 | -85.5     | clear       |
|                                  | 11                | 18.76               | 399          | 0.80   | 6.77 | -69.6     | clear       |
|                                  | 13                | 18.77               | 404          | 0.73   | 6.78 | -69.6     | clear       |
|                                  | 15                | 18.78               | 414          | 0.67   | 6.79 | -74.3     | clear       |

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

|                          |
|--------------------------|
| No petroleum odors noted |
|                          |
|                          |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-4**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 18.51  |                 |   |
| Water Elevation (feet above msl)  | 15.91  |                 |   |
| 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) | <b>12.6</b>                                  |                 |   |
| Actual Volume Purged (gallons)  | 13.0   |                 |   |
| Appearance of Purge Water   | Initially light brown, clears after 1 gallon |                 |   |
| Free Product Present?   | No   | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | 3 VOAs |      |           |             |
|----------------------------------|-------------------|---------------------|--------------|--------|------|-----------|-------------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO     | PH   | ORP (meV) | Comments    |
| 10:34                            | 1                 | 17.23               | 307          | 8.60   | 7.02 | 9.9       | Light brown |
|                                  | 2                 | 17.12               | 305          | 7.81   | 6.95 | 13.3      | Clear       |
|                                  | 3                 | 17.11               | 305          | 7.79   | 6.92 | 15.4      | Clear       |
|                                  | 4                 | 17.08               | 319          | 8.13   | 6.86 | 19.4      | Clear       |
|                                  | 5                 | 17.08               | 321          | 8.16   | 6.85 | 20.1      | Clear       |
|                                  | 6                 | 17.09               | 306          | 7.77   | 6.83 | 21.9      | Clear       |
|                                  | 7                 | 17.13               | 289          | 7.13   | 6.79 | 24.0      | Clear       |
| 10:45                            | 9                 | 17.21               | 300          | 6.97   | 6.75 | 37.1      | Clear       |
|                                  | 11                | 17.29               | 293          | 7.42   | 6.75 | 25.4      | Clear       |
|                                  | 13                | 17.31               | 289          | 6.76   | 6.76 | 24.0      | Clear       |
|                                  |                   |                     |              |        |      |           |             |

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

|                              |
|------------------------------|
| Slight petroleum odors noted |
|                              |
|                              |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-5**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 16.20 |                 |   |
| Water Elevation (feet above msl)  | 17.13 |                 |   |
| Well Volumes Purged   | 3     |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 11.3  |                 |   |
| Actual Volume Purged (gallons)  | 12.0  |                 |   |
| 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) | Conductivity | DO     | PH   | ORP (meV) | Comments |
| 8:16                             | 1                 | 18.56               | 797          | 0.63   | 6.94 | -164      | Clear    |
|                                  | 2                 | 18.63               | 7985         | 0.43   | 7.04 | -171.9    | Clear    |
|                                  | 3                 | 18.63               | 793          | 0.42   | 7.11 | -177.3    | Clear    |
|                                  | 4                 | 18.68               | 700          | 0.56   | 7.17 | -165.8    | Clear    |
|                                  | 5                 | 18.70               | 637          | 0.60   | 7.18 | -162.0    | Clear    |
|                                  | 6                 | 18.77               | 529          | 0.78   | 7.18 | -141.8    | Clear    |
| 8:31                             | 8                 | 18.83               | 461          | 2.5    | 7.05 | -91.6     | Clear    |
|                                  | 10                | 18.79               | 442          | 1.71   | 7.09 | -93.6     | Clear    |
| 8:35                             | 12                | 18.78               | 440          | 1.02   | 7.10 | -99.7     | Clear    |

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

|  |
|--|
| Moderate petroleum and fetid odors noted |
| Clear before 1 gallon purge              |
| well dry at 6 gallons                    |
| Recharged at 8:31am                      |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-6**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 15.46   |                 |   |
| Depth to Free Product (from top of casing)  | None observed   |                 |   |
| Water Elevation (feet above msl)  | 17.36   |                 |   |
| Well Volumes Purged   | 3   |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 12.7  |                 |   |
| Actual Volume Purged (gallons)  | 13.0  |                 |   |
| Appearance of Purge Water   | Initially light brown, slightly clears after 1 gallon |                 |   |
| Free Product Present?   | No  | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | 3 VOAs |      |           |                |
|----------------------------------|-------------------|---------------------|--------------|--------|------|-----------|----------------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO     | PH   | ORP (meV) | Comments       |
| 9:22                             | 1                 | 17.98               | 572          | 0.50   | 7.05 | -147.6    | Light brown    |
|                                  | 2                 | 17.94               | 561          | 0.27   | 7.10 | -153.1    | slightly clear |
|                                  | 3                 | 17.93               | 555          | 0.28   | 7.11 | -151.3    | slightly clear |
|                                  | 4                 | 17.94               | 543          | 0.31   | 7.09 | -142.9    | slightly clear |
|                                  | 5                 | 17.95               | 537          | 0.33   | 7.08 | -138.3    | slightly clear |
|                                  | 7                 | 18.00               | 481          | 0.54   | 6.99 | -113.4    | slightly clear |
|                                  | 9                 | 18.10               | 462          | 0.53   | 6.93 | -100.4    | slightly clear |
| 9:45                             | 11                | 18.22               | 456          | 0.5    | 6.93 | -99.8     | slightly clear |
|                                  | 13                | 18.23               | 447          | 0.81   | 6.84 | -69.3     | slightly clear |

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

|                              |
|------------------------------|
| Strong petroleum odors noted |
| Slightly at 2 gallons        |
| well dry at 12 gallons purge |



**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-7**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 16.13         |                 |   |
| Depth to Free Product (from top of casing)  | None observed |                 |   |
| Water Elevation (feet above msl)  | 16.94         |                 |   |
| Well Volumes Purged   | 3             |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 11.4          |                 |   |
| Actual Volume Purged (gallons)  | 12.0          |                 |   |
| 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) | Conductivity | DO     | PH   | ORP (meV) | Comments |
| 9:51                             | 1                 | 18.45               | 800          | 0.64   | 6.93 | -139.4    | Clear    |
|                                  | 2                 | 18.49               | 791          | 0.38   | 6.99 | -144.9    | Clear    |
|                                  | 3                 | 18.50               | 768          | 0.34   | 7.04 | -147.2    | Clear    |
|                                  | 4                 | 18.53               | 721          | 0.40   | 7.07 | -145.2    | Clear    |
|                                  | 5                 | 18.54               | 778          | 0.55   | 7.09 | -140.8    | Clear    |
|                                  | 6                 | 18.61               | 546          | 0.65   | 7.11 | -127.4    | Clear    |
|                                  | 8                 | 18.71               | 479          | 0.40   | 7.07 | -112.2    | Clear    |
|                                  | 10                | 18.73               | 465          | 0.32   | 7.03 | -104.5    | Clear    |
|                                  | 12                | 18.74               | 452          | 0.30   | 7.02 | -101.0    | Clear    |

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

|                                |
|--------------------------------|
| Moderate petroleum odors noted |
|                                |
|                                |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-8**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 33.00         |                 |   |
| Depth of Well   | 22.00         |                 |   |
| Depth to Water (from top of casing)   | 16.05         |                 |   |
| Depth to Free Product (from top of casing)  | None observed |                 |   |
| Water Elevation (feet above msl)  | 16.95         |                 |   |
| Well Volumes Purged   | 3             |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 11.6          |                 |   |
| Actual Volume Purged (gallons)  | 12.0          |                 |   |
| 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) | Conductivity | DO     | PH   | ORP (meV) | Comments |
| 10:58                            | 1                 | 17.26               | 153          | 3.35   | 6.96 | 1.40      | Clear    |
|                                  | 2                 | 17.21               | 153          | 2.96   | 7.02 | -11.9     | Clear    |
|                                  | 3                 | 17.18               | 154          | 2.99   | 7.04 | -17.5     | Clear    |
|                                  | 4                 | 17.13               | 159          | 3.06   | 7.04 | -34.8     | Clear    |
|                                  | 5                 | 17.12               | 155          | 2.08   | 7.02 | -43.1     | Clear    |
|                                  | 6                 | 17.12               | 152          | 0.81   | 6.95 | -57.9     | Clear    |
|                                  | 7                 | 17.14               | 152          | 0.58   | 6.92 | -62.4     | Clear    |
|                                  | 8                 | 17.16               | 150          | 0.45   | 6.91 | -67.7     | Clear    |
| 11:10                            | 10                | 17.19               | 152          | 0.80   | 6.92 | -67.8     | Clear    |
|                                  | 12                | 17.22               | 153          | 2.96   | 6.98 | -62.4     | Clear    |

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

|                          |
|--------------------------|
| No petroleum odors noted |
|                          |

**AEI CONSULTANTS**

**GROUNDWATER MONITORING WELL FIELD SAMPLING FORM**

**Monitoring Well Number: MW-9**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 32.00         |                 |   |
| Depth of Well   | 22.73         |                 |   |
| Depth to Water (from top of casing)   | 14.38         |                 |   |
| Depth to Free Product (from top of casing)  | None observed |                 |   |
| Water Elevation (feet above msl)  | 17.62         |                 |   |
| 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) | 3.5           |                 |   |
| Actual Volume Purged (gallons)  | 4.0           |                 |   |
| 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) | Conductivity | DO     | PH   | ORP (meV) | Comments |
| 12:25                            | 1                 | 18.79               | 542          | 0.57   | 6.91 | -70.9     | Clear    |
|                                  | 2                 | 18.73               | 530          | 0.47   | 6.94 | -74.8     | Clear    |
|                                  | 3                 | 18.77               | 536          | 0.51   | 6.90 | -81.8     | Clear    |
|                                  | 4                 | 18.82               | 550          | 1.04   | 6.89 | -85.6     | Clear    |
|                                  | 5                 | 18.85               | 561          | 1.10   | 6.89 | -86.4     | Clear    |
| 12:29                            |                   |                     |              |        |      |           |          |
|                                  |                   |                     |              |        |      |           |          |

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

|                              |
|------------------------------|
| Strong petroleum odors noted |
|                              |
|                              |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-10**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | --    |                 |   |
| Water Elevation (feet above msl)  | --    |                 |   |
| Well Volumes Purged   | --    |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | --    |                 |   |
| Actual Volume Purged (gallons)  | --    |                 |   |
| Appearance of Purge Water   | --    |                 |   |
| Free Product Present?   | No    | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | -  |    |           |          |
|----------------------------------|-------------------|---------------------|--------------|----|----|-----------|----------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO | PH | ORP (meV) | Comments |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |

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

|   |
|---|
| Well covered - inaccessible. Not sampled or gauged. |
|   |
|   |
|   |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-11**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   |       |                 |   |
| Water Elevation (feet above msl)  | --    |                 |   |
| Well Volumes Purged   | --    |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | --    |                 |   |
| Actual Volume Purged (gallons)  | --    |                 |   |
| Appearance of Purge Water   | --    |                 |   |
| Free Product Present?   | No    | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | -  |    |           |          |
|----------------------------------|-------------------|---------------------|--------------|----|----|-----------|----------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO | PH | ORP (meV) | Comments |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |

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

|   |
|---|
| Well covered - inaccessible. Not sampled or gauged. |
|   |
|   |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-12**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 32.02 |                 |   |
| Depth of Well   | 22.00 |                 |   |
| Depth to Water (from top of casing)   |       |                 |   |
| Water Elevation (feet above msl)  | --    |                 |   |
| Well Volumes Purged   | --    |                 |   |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | --    |                 |   |
| Actual Volume Purged (gallons)  | --    |                 |   |
| Appearance of Purge Water   | --    |                 |   |
| Free Product Present?   | No    | Thickness (ft): | - |

**GROUNDWATER SAMPLES**

| Number of Samples/Container Size |                   |                     |              | -  |    |           |          |
|----------------------------------|-------------------|---------------------|--------------|----|----|-----------|----------|
| Time                             | Vol Removed (gal) | Temperature (deg C) | Conductivity | DO | PH | ORP (meV) | Comments |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |
|                                  |                   |                     |              |    |    |           |          |

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

|   |
|---|
| Well covered - inaccessible. Not sampled or gauged. |
|   |
|   |
|   |

**AEI CONSULTANTS**  
GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

**Monitoring Well Number: MW-13**

|                  |                         |                   |          |
|------------------|-------------------------|-------------------|----------|
| Project Name:    | Vic's Automotive        | Date of Sampling: | 5/5/2009 |
| 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)   | 32.00 |                 |   |
| Depth of Well   | 22.00 |                 |   |
| Depth to Water (from top of casing)   | 14.09 |                 |   |
| Water Elevation (feet above msl)  | 17.91 |                 |   |
| 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) | 3.7   |                 |   |
| Actual Volume Purged (gallons)  | 4.0   |                 |   |
| 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) | Conductivity | DO     | PH   | ORP (meV) | Comments |
| 12:05                            | 1                 | 18.67               | 461          | 3.62   | 7.13 | 2.3       | Clear    |
|                                  | 2                 | 18.62               | 487          | 2.51   | 7.11 | -5.0      | Clear    |
|                                  | 3                 | 18.64               | 454          | 2.01   | 7.11 | -8.3      | Clear    |
|                                  | 4                 | 18.67               | 435          | 2.42   | 7.04 | -0.2      | Clear    |
| 12:10                            | 5                 | 18.69               | 433          | 2.62   | 6.99 | 3.9       | Clear    |
|                                  |                   |                     |              |        |      |           |          |
|                                  |                   |                     |              |        |      |           |          |

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

|                          |
|--------------------------|
| No petroleum odors noted |
|                          |
|                          |
|                          |

## **APPENDIX B**

### **SOIL GAS FIELD SAMPLING FORMS**



**NO SOIL GAS FIELD FORMS**

**QUARTERLY SOIL GAS SAMPLING HAS BEEN  
TEMPORARILY SUSPENDED DURING  
OPERATION OF THE HVDPE SYSTEM**

## **APPENDIX C**

### **LABORATORY ANALYTICAL REPORTS W/ CHAIN OF CUSTODY DOCUMENTATION**



**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

|  |  |                          |
|--|--|--------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 04/21/09   |
|  | Client Contact: Ricky Bradford               | Date Received: 04/21/09  |
|  | Client P.O.: #WC081461                       | Date Reported: 04/24/09  |
|  |  | Date Completed: 04/23/09 |

**WorkOrder: 0904514**

April 24, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **11** 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

0904514

**McCAMPBELL ANALYTICAL INC.**

1538 Willow Pass Road, Pittsburg, CA 94565

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?  Yes  No

PDF Required?  Yes  No

Report To: Ricky Bradford Bill To: AEI Consultants  
 Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597  
 P.O.#WC081461  
 E-Mail: rbradford@aeiconsultatns.com  
 Telephone: (925) 746-6000 Fax: (925) 746-6099  
 AEI Project No. 116907 Project Name: Vic's Automotive  
 Project Location: 245 8<sup>th</sup> Street, Oakland, California 94607  
 Sampler Signature: *[Signature]*

| Analysis Request                            |  |  |  |  |  |  |  |  |  | Other | Comments |   |
|---|--|--|--|--|--|--|--|--|--|-------|----------|---|
| BTEX & TPH as Gas (602/8020 + 8015C)/MTBE   |  |  |  |  |  |  |  |  |  |       |          | * Please report analytical data in both ug/L and ppmv |
| 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                              |  |  |  |  |  |  |  |  |  |       |          |   |
| PAH's / PNA's by EPA 625 / 8270 / 8310      |  |  |  |  |  |  |  |  |  |       |          |   |
| CAM-17 Metals                               |  |  |  |  |  |  |  |  |  |       |          |   |
| LUFT 5 Metals                               |  |  |  |  |  |  |  |  |  |       |          |   |
| Lead (7240/7421/239.2/6010)                 |  |  |  |  |  |  |  |  |  |       |          |   |
| RCI   |  |  |  |  |  |  |  |  |  |       |          |   |
| HVOCs - (8010 target list) by EPA 8260B     |  |  |  |  |  |  |  |  |  |       |          |   |
| MTBE Only by EPA 8260B                      |  |  |  |  |  |  |  |  |  |       |          |   |

| SAMPLE ID | FIELD POINT NAME | SAMPLING |      | # of Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |  |  |  |             |
|-----------|------------------|----------|------|-----------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|-------------|
|           |                  | Date     | Time |                 |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |             |
| MW-1S     | MW-1S            | 4-21-09  | 0830 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-2S     | MW-2S            |          | 0845 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-5S     | MW-5S            |          | 0902 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-6S     | MW-6S            |          | 0915 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-7S     | MW-7S            |          | 0930 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-10S    | MW-10S           |          | 0945 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-11S    | MW-11S           |          | 1000 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| MW-12S    | MW-12S           |          | 1015 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| POSTD     | POSTD            |          |      |                 |                 |        |      |     |        |       |                  |     |                  |       |  |  |  | Not Sampled |
| PRED      | PRED             |          | 1030 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| AS        | AS               |          | 1045 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |
| STACK     | STACK            |          | 1100 | 1               | TB              |        |      | X   |        |       |                  |     |                  |       |  |  |  | X           |

|                                     |               |            |                                 |
|-------------------------------------|---------------|------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 4-21-09 | Time: 1510 | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:         | Time:      | Received By:                    |
| Relinquished By:                    | Date:         | Time:      | Received By:                    |

ICE/TPH *N/A*  
 GOOD CONDITION   
 HEAD SPACE ABSENT   
 DECHLORINATED IN LAB   
 PRESERVATION   
 APPROPRIATE CONTAINERS   
 PERSERVED IN LAB   
 VOAS  O&G  METALS  OTHER

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0904514

ClientCode: AEL

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

|            |                                   |                                      |          |                               |                           |
|------------|-----------------------------------|--------------------------------------|----------|-------------------------------|---------------------------|
| Report to: | Ricky Bradford                    | Email: rbradford@aeiconsultants.com  | Bill to: | Denise Mockel                 | Requested TAT: 5 days     |
|            | AEI Consultants                   | cc:                                  |          | AEI Consultants               | Date Received: 04/21/2009 |
|            | 2500 Camino Diablo, Ste. #200     | PO: #WC081461                        |          | 2500 Camino Diablo, Ste. #200 | Date Printed: 04/21/2009  |
|            | Walnut Creek, CA 94597            | ProjectNo: #116907; Vic's Automotive |          | Walnut Creek, CA 94597        |                           |
|            | (925) 283-6000 FAX (925) 944-2895 |                                      |          | dmockel@aeiconsultants.com    |                           |

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0904514-001 | MW-1S     | Air    | 4/21/2009 8:30  | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-002 | MW-2S     | Air    | 4/21/2009 8:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-003 | MW-5S     | Air    | 4/21/2009 9:00  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-004 | MW-6S     | Air    | 4/21/2009 9:15  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-005 | MW-7S     | Air    | 4/21/2009 9:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-006 | MW-10S    | Air    | 4/21/2009 9:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-007 | MW-11S    | Air    | 4/21/2009 10:00 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-008 | MW-12S    | Air    | 4/21/2009 10:15 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-009 | PRED      | Air    | 4/21/2009 10:30 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-010 | AS        | Air    | 4/21/2009 10:45 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904514-011 | STACK     | Air    | 4/21/2009 11:00 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A contain testgroup.

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



**Sample Receipt Checklist**

Client Name: **AEI Consultants**

Date and Time Received: **04/21/09 1:16:43 PM**

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

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0904514** Matrix Air

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
- Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                                   |
|--|--|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 04/21/09            |
|  | Client Contact: Ricky Bradford               | Date Received: 04/21/09           |
|  | Client P.O.: #WC081461                       | Date Extracted: 04/21/09-04/22/09 |
|  |  | Date Analyzed: 04/21/09-04/22/09  |

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

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0904514

| Lab ID | Client ID | Matrix | TPH(g)  | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|--------|-----------|--------|---------|--------|---------|---------|--------------|---------|----|------|
| 001A   | MW-1S     | A      | 150,d1  | ND     | 1.8     | 8.9     | 1.3          | 8.5     | 1  | 92   |
| 002A   | MW-2S     | A      | 450,d1  | ND     | 4.3     | 15      | 1.6          | 21      | 1  | 91   |
| 003A   | MW-5S     | A      | 140,d1  | ND<5.0 | 3.7     | 15      | 2.3          | 19      | 1  | 111  |
| 004A   | MW-6S     | A      | 63,d1   | 3.6    | 1.3     | 1.8     | 0.56         | 6.3     | 1  | 102  |
| 005A   | MW-7S     | A      | 190,d1  | 17     | 8.9     | 8.6     | 1.2          | 13      | 1  | 106  |
| 006A   | MW-10S    | A      | 850,d1  | ND<15  | 14      | 22      | 4.3          | 42      | 1  | 86   |
| 007A   | MW-11S    | A      | 1700,d1 | ND<80  | 100     | 78      | 15           | 140     | 20 | 118  |
| 008A   | MW-12S    | A      | 140,d1  | 13     | 21      | 8.0     | 1.8          | 8.6     | 1  | 103  |
| 009A   | PRED      | A      | 210,d1  | ND<5.0 | 6.0     | 13      | 1.9          | 16      | 2  | 102  |
| 010A   | AS        | A      | ND      | ND     | ND      | ND      | ND           | ND      | 1  | 99   |
| 011A   | STACK     | A      | ND      | ND     | ND      | ND      | ND           | ND      | 1  | 97   |
|        |           |        |         |        |         |         |              |         |    |      |
|        |           |        |         |        |         |         |              |         |    |      |
|        |           |        |         |        |         |         |              |         |    |      |
|        |           |        |         |        |         |         |              |         |    |      |
|        |           |        |         |        |         |         |              |         |    |      |

|  |   |     |      |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 25  | 2.5  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | mg/Kg |

\* water and vapor samples are reported in µg/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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                                   |
|--|--|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 04/21/09            |
|  | Client Contact: Ricky Bradford               | Date Received: 04/21/09           |
|  | Client P.O.: #WC081461                       | Date Extracted: 04/21/09-04/22/09 |
|  |  | Date Analyzed: 04/21/09-04/22/09  |

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with MTBE and BTEX in ppmv\*

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0904514

| Lab ID | Client ID | Matrix | TPH(g) | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|--------|-----------|--------|--------|--------|---------|---------|--------------|---------|----|------|
| 001A   | MW-1S     | A      | 42,d1  | ND     | 0.56    | 2.3     | 0.29         | 1.9     | 1  | 92   |
| 002A   | MW-2S     | A      | 130,d1 | ND     | 1.3     | 3.9     | 0.36         | 4.9     | 1  | 91   |
| 003A   | MW-5S     | A      | 40,d1  | ND<1.0 | 1.1     | 4.0     | 0.51         | 4.4     | 1  | 111  |
| 004A   | MW-6S     | A      | 18,d1  | 0.98   | 0.41    | 0.47    | 0.13         | 1.4     | 1  | 102  |
| 005A   | MW-7S     | A      | 53,d1  | 4.5    | 2.7     | 2.2     | 0.28         | 3.0     | 1  | 106  |
| 006A   | MW-10S    | A      | 240,d1 | ND<5.0 | 4.4     | 5.7     | 0.98         | 9.6     | 1  | 86   |
| 007A   | MW-11S    | A      | 460,d1 | ND<20  | 32      | 20      | 3.3          | 31      | 20 | 118  |
| 008A   | MW-12S    | A      | 40,d1  | 3.4    | 6.5     | 2.1     | 0.41         | 2.0     | 1  | 103  |
| 009A   | PRED      | A      | 58,d1  | ND<1.4 | 1.9     | 3.5     | 0.44         | 3.7     | 2  | 102  |
| 010A   | AS        | A      | ND     | ND     | ND      | ND      | ND           | ND      | 1  | 99   |
| 011A   | STACK     | A      | ND     | ND     | ND      | ND      | ND           | ND      | 1  | 97   |
|        |           |        |        |        |         |         |              |         |    |      |
|        |           |        |        |        |         |         |              |         |    |      |
|        |           |        |        |        |         |         |              |         |    |      |
|        |           |        |        |        |         |         |              |         |    |      |

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

|   |   |     |      |       |       |       |       |   |       |
|---|---|-----|------|-------|-------|-------|-------|---|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | A | 7.0 | 0.68 | 0.077 | 0.065 | 0.057 | 0.057 | 1 | uL/L  |
|   | S | NA  | NA   | NA    | NA    | NA    | NA    | 1 | mg/Kg |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant





### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 42781

WorkOrder: 0904514

| EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0904494-008A |     |          |     |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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) <sup>£</sup>    | ND     | 60                 | 101    | 104    | 2.55   | 85.3   | 85.9   | 0.696    | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                      | ND     | 10                 | 107    | 105    | 1.16   | 85.2   | 94.6   | 10.4     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                   | ND     | 10                 | 94.4   | 92.7   | 1.78   | 82.8   | 89.7   | 8.07     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                   | ND     | 10                 | 96.3   | 94.6   | 1.80   | 81.5   | 88     | 7.63     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene              | ND     | 10                 | 97.1   | 94.7   | 2.46   | 80.4   | 85.7   | 6.33     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                   | ND     | 30                 | 108    | 107    | 1.45   | 81.6   | 86.6   | 5.91     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                      | 96     | 10                 | 104    | 103    | 0.311  | 95     | 99     | 4.00     | 70 - 130                       | 20  | 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 42781 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0904514-001A | 04/21/09 8:30 AM | 04/22/09       | 04/22/09 7:13 PM | 0904514-002A | 04/21/09 8:45 AM | 04/22/09       | 04/22/09 8:14 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.

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.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 42818

WorkOrder: 0904514

| EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0904518-003A |     |          |     |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte                   | Sample | Spiked             | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                           | µg/L   | µg/L               | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| TPH(btex) <sup>£</sup>    | ND     | 60                 | 100    | 101    | 1.37   | 103    | 113    | 9.35     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                      | ND     | 10                 | 96.9   | 94.8   | 2.21   | 112    | 106    | 5.34     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                   | ND     | 10                 | 92.1   | 92.2   | 0.141  | 91.4   | 98.6   | 7.56     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                   | ND     | 10                 | 90.1   | 90.5   | 0.338  | 93.7   | 103    | 9.42     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene              | ND     | 10                 | 89.6   | 89     | 0.749  | 94.4   | 98.1   | 3.91     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                   | ND     | 30                 | 90.8   | 89.8   | 1.08   | 106    | 114    | 7.68     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                      | 92     | 10                 | 98     | 99     | 1.31   | 101    | 106    | 4.65     | 70 - 130                       | 20  | 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 42818 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|-------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0904514-003A | 04/21/09 9:00 AM  | 04/22/09       | 04/22/09 8:45 PM  | 0904514-004A | 04/21/09 9:15 AM  | 04/21/09       | 04/21/09 8:20 PM  |
| 0904514-005A | 04/21/09 9:30 AM  | 04/22/09       | 04/22/09 9:15 PM  | 0904514-005A | 04/21/09 9:30 AM  | 04/23/09       | 04/23/09 8:41 PM  |
| 0904514-006A | 04/21/09 9:45 AM  | 04/21/09       | 04/21/09 9:52 PM  | 0904514-007A | 04/21/09 10:00 AM | 04/21/09       | 04/21/09 10:23 PM |
| 0904514-008A | 04/21/09 10:15 AM | 04/22/09       | 04/22/09 9:45 PM  | 0904514-009A | 04/21/09 10:30 AM | 04/21/09       | 04/21/09 11:25 PM |
| 0904514-010A | 04/21/09 10:45 AM | 04/22/09       | 04/22/09 10:15 PM | 0904514-011A | 04/21/09 11:00 AM | 04/22/09       | 04/22/09 10:45 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.

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.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

|  |  |                          |
|--|--|--------------------------|
| AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 04/21/09   |
|  | Client Contact: Ricky Bradford               | Date Received: 04/21/09  |
|  | Client P.O.: #WC081462                       | Date Reported: 04/24/09  |
|  |  | Date Completed: 04/24/09 |

**WorkOrder: 0904515**

April 24, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **3** 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

0904515

**McCAMPBELL ANALYTICAL INC.**

1538 Willow Pass Road, Pittsburg, CA 94565

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?  Yes  No

PDF Required?  Yes  No

Report To: Ricky Bradford      Bill To: AEI Consultants  
 Company: AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597  
 P.O.#WC081462  
 E-Mail: rbradford@aeiconsultatns.com  
 Telephone: (925) 746-6000      Fax: (925) 746-6099  
 AEI Project No. 116907      Project Name: Vic's Automotive  
 Project Location: 245 8<sup>th</sup> Street, Oakland, California 94607  
 Sampler Signature: *John Gray*

Analysis Request

Other

Comments

| SAMPLE ID | FIELD POINT NAME | SAMPLING |      | # of Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       |   |
|-----------|------------------|----------|------|-----------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|---|
|           |                  | Date     | Time |                 |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |   |
| INF       | INF              | 4-21-09  | 1115 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X |
| POST-AS   | POST-AS          | ↓        | 1130 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X |
| EFF       | EFF              | ↓        | 1145 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X |
|           |                  |          |      |                 |                 |        |      |     |        |       |                  |     |                  |       |   |
|           |                  |          |      |                 |                 |        |      |     |        |       |                  |     |                  |       |   |

BTEX & TPH as Gas (602/8020+ 8015C) Only

\*\*Total Oil & Grease HC (1664 HEM-SGT)

\*\*For TOG HC Use (1) 1 Liter Ambers (w/ HCl)

Flow Totalizer Reading

|                                   |               |            |                             |
|-----------------------------------|---------------|------------|-----------------------------|
| Relinquished By: <i>John Gray</i> | Date: 4-21-09 | Time: 1310 | Received By: <i>Melissa</i> |
| Relinquished By:                  | Date:         | Time:      | Received By:                |
| Relinquished By:                  | Date:         | Time:      | Received By:                |

ICE/c° 3.2      PRESERVATION  VOAS  O&G  METALS  OTHER   
 GOOD CONDITION       APPROPRIATE CONTAINERS   
 HEAD SPACE ABSENT       DECHLORINATED IN LAB \_\_\_\_\_      PERSERVED IN LAB \_\_\_\_\_

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0904515

ClientCode: AEL

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

|                                   |                                      |                               |                                  |
|-----------------------------------|--------------------------------------|-------------------------------|----------------------------------|
| Report to:                        |                                      | Bill to:                      | Requested TAT: <b>5 days</b>     |
| Ricky Bradford                    | Email: rbradford@aeiconsultants.com  | Denise Mockel                 |                                  |
| AEI Consultants                   | cc:                                  | AEI Consultants               | <i>Date Received: 04/21/2009</i> |
| 2500 Camino Diablo, Ste. #200     | PO: #WC081462                        | 2500 Camino Diablo, Ste. #200 | <i>Date Printed: 04/21/2009</i>  |
| Walnut Creek, CA 94597            | ProjectNo: #116907; Vic's Automotive | Walnut Creek, CA 94597        |                                  |
| (925) 283-6000 FAX (925) 944-2895 |                                      | dmockel@aeiconsultants.com    |                                  |

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0904515-001 | INF       | Water  | 4/21/2009 11:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0904515-002 | POST-AS   | Water  | 4/21/2009 11:30 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0904515-003 | EFF       | Water  | 4/21/2009 11:45 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

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

Prepared by: Maria Venegas

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **AEI Consultants**

Date and Time Received: **04/21/09 1:36:37 PM**

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

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0904515** 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: 3.2°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
- Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                          |
|--|--|--------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 04/21/09   |
|  | Client Contact: Ricky Bradford               | Date Received: 04/21/09  |
|  | Client P.O.: #WC081462                       | Date Extracted: 04/23/09 |
|  |  | Date Analyzed 04/23/09   |

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

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0904515

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS |
|--------|-----------|--------|--------|------|---------|---------|--------------|---------|----|------|
| 001A   | INF       | W      | 590,d1 | ---  | 31      | 41      | 8.7          | 100     | 1  | 112  |
| 002A   | POST-AS   | W      | ND     | ---  | ND      | ND      | ND           | ND      | 1  | 103  |
| 003A   | EFF       | W      | ND     | ---  | ND      | ND      | ND           | ND      | 1  | 106  |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |
|        |           |        |        |      |         |         |              |         |    |      |

|  |   |     |      |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50  | 5.0  | 0.5   | 0.5   | 0.5   | 0.5   | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 42818

WorkOrder: 0904515

| Analyte                | EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0904518-003A |     |          |     |
|------------------------|---------------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                        | 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) <sup>£</sup> | ND                        | 60     | 100                | 101    | 1.37   | 103    | 113    | 9.35     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND                        | 10     | 96.9               | 94.8   | 2.21   | 112    | 106    | 5.34     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND                        | 10     | 92.1               | 92.2   | 0.141  | 91.4   | 98.6   | 7.56     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | ND                        | 10     | 90.1               | 90.5   | 0.338  | 93.7   | 103    | 9.42     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND                        | 10     | 89.6               | 89     | 0.749  | 94.4   | 98.1   | 3.91     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | ND                        | 30     | 90.8               | 89.8   | 1.08   | 106    | 114    | 7.68     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 92                        | 10     | 98                 | 99     | 1.31   | 101    | 106    | 4.65     | 70 - 130                       | 20  | 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 42818 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0904515-001A | 04/21/09 11:15 AM | 04/23/09       | 04/23/09 4:24 PM | 0904515-002A | 04/21/09 11:30 AM | 04/23/09       | 04/23/09 4:54 PM |
| 0904515-003A | 04/21/09 11:45 AM | 04/23/09       | 04/23/09 6:14 AM |              |                   |                |                  |

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.





**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

|  |   |                          |
|--|---|--------------------------|
| AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Auto (Q2, 2009) | Date Sampled: 05/05/09   |
|  | Client Contact: Ricky Bradford                    | Date Received: 05/05/09  |
|  | Client P.O.: #WC081607                            | Date Reported: 05/08/09  |
|  |   | Date Completed: 05/08/09 |

**WorkOrder: 0905091**

May 08, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **10** analyzed samples from your project: **#116907; Vic's Auto (Q2, 2009)**,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

0905091

**McCAMPBELL ANALYTICAL INC.**

1538 Willow Pass Road, Pittsburg, CA 94565

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?  Yes  No

PDF Required?  Yes  No

Report To: **Ricky Bradford** Bill To: **AEI Consultants**  
 Company: **AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597**  
 P.O. # **WC081607**  
 E-Mail: **rbradford@aeiconsultatns.com**  
 Telephone: (925) 944-2899, ext. 148 Fax: (925) 944-2895  
 Project No: **116907** Project Name: **Vic's Auto (Q2, 2009)**  
 Project Location: **245 8<sup>th</sup> Street, Oakland, CA 94607**  
 Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

| SAMPLE ID | FIELD POINT NAME | SAMPLING |      | # of Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | TPH-g & MBTEX (SW8015C/8021B)<br>TPH-d (SW8015C) | MTBE Only (SW8260B) |  |  |             |
|-----------|------------------|----------|------|-----------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|---------------------|--|--|-------------|
|           |                  | Date     | Time |                 |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |                     |  |  |             |
| MW-1      | MW-1             | 5/5/09   | 0940 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | DPE Well    |
| MW-2      | MW-2             |          | 1110 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | DPE Well    |
| MW-3      | MW-3             |          | 0830 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  |             |
| MW-4      | MW-4             |          | 1130 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  |             |
| MW-5      | MW-5             |          | 0900 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | DPE Well    |
| MW-6      | MW-6             |          | 1015 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | DPE Well    |
| MW-7      | MW-7             |          | 1050 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | DPE Well    |
| MW-8      | MW-8             |          | 1140 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  |             |
| MW-9      | MW-9             |          | 0330 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  |             |
| MW-10     | MW-10            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | Not Sampled |
| MW-11     | MW-11            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | Not Sampled |
| MW-12     | MW-12            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  | Not Sampled |
| MW-13     | MW-13            |          | 1300 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  |       | X  |                     |  |  |             |

|                                     |              |            |                                 |
|-------------------------------------|--------------|------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 5/5/09 | Time: 6:00 | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:        | Time:      | Received By:                    |
| Relinquished By:                    | Date:        | Time:      | Received By:                    |

ICE/r<sup>o</sup> YES 72°C  
 GOOD CONDITION  
 HEAD SPACE ABSENT  
 DECHLORINATED IN LAB

PRESERVATION APPROPRIATE CONTAINERS  
 VOAS O&G METALS OTHER  
 MA MA

# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0905091

ClientCode: AEL

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

|            |                                   |   |          |                               |                           |
|------------|-----------------------------------|---|----------|-------------------------------|---------------------------|
| Report to: | Ricky Bradford                    | Email: rbradford@aeiconsultants.com       | Bill to: | Denise Mockel                 | Requested TAT: 5 days     |
|            | AEI Consultants                   | cc:                                       |          | AEI Consultants               | Date Received: 05/05/2009 |
|            | 2500 Camino Diablo, Ste. #200     | PO: #WC081607                             |          | 2500 Camino Diablo, Ste. #200 | Date Printed: 05/05/2009  |
|            | Walnut Creek, CA 94597            | ProjectNo: #116907; Vic's Auto (Q2, 2009) |          | Walnut Creek, CA 94597        |                           |
|            | (925) 283-6000 FAX (925) 944-2895 |   |          | dmockel@aeiconsultants.com    |                           |

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0905091-001 | MW-1      | Water  | 5/5/2009 9:40   | <input type="checkbox"/> | A                                  | B | A |   |   |   |   |   |   |    |    |    |  |
| 0905091-002 | MW-2      | Water  | 5/5/2009 11:10  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-003 | MW-3      | Water  | 5/5/2009 8:30   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-004 | MW-4      | Water  | 5/5/2009 11:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-005 | MW-5      | Water  | 5/5/2009 9:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-006 | MW-6      | Water  | 5/5/2009 10:15  | <input type="checkbox"/> | A                                  | B |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-007 | MW-7      | Water  | 5/5/2009 10:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-008 | MW-8      | Water  | 5/5/2009 11:40  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-009 | MW-9      | Water  | 5/5/2009 13:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-010 | MW-13     | Water  | 5/5/2009 13:00  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |          |    |        |   |             |   |  |    |  |
|----|----------|----|--------|---|-------------|---|--|----|--|
| 1  | G-MBTX_W | 2  | MTBE_W | 3 | PREF REPORT | 4 |  | 5  |  |
| 6  |          | 7  |        | 8 |             | 9 |  | 10 |  |
| 11 |          | 12 |        |   |             |   |  |    |  |

Prepared by: Samantha Arbuckle

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **05/05/09 6:45:35 PM**  
 Project Name: **#116907; Vic's Auto (Q2, 2009)** Checklist completed and reviewed by: **Samantha Arbuckle**  
 WorkOrder N°: **0905091** 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: 7.2°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   
 Samples Received on Ice? Yes  No   
 (Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted: Date contacted: Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |   |                                   |
|--|---|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Auto (Q2, 2009) | Date Sampled: 05/05/09            |
|  | Client Contact: Ricky Bradford                    | Date Received: 05/05/09           |
|  | Client P.O.: #WC081607                            | Date Extracted: 05/06/09-05/08/09 |
|  |   | Date Analyzed: 05/06/09-05/08/09  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0905091

| Lab ID | Client ID | Matrix | TPH(g) | MTBE    | Benzene | Toluene | Ethylbenzene | Xylenes | DF  | % SS | Comments |
|--------|-----------|--------|--------|---------|---------|---------|--------------|---------|-----|------|----------|
| 001A   | MW-1      | W      | 44,000 | ND<350  | 1300    | 6500    | 1300         | 6800    | 50  | 108  | d1       |
| 002A   | MW-2      | W      | 570    | ND<25   | 22      | 33      | 9.2          | 73      | 1   | 114  | d1       |
| 003A   | MW-3      | W      | ND     | ND      | ND      | 0.76    | ND           | ND      | 1   | 106  |          |
| 004A   | MW-4      | W      | 85     | ND      | 1.2     | 8.0     | 2.5          | 19      | 1   | 103  | d1       |
| 005A   | MW-5      | W      | 12,000 | ND<50   | 360     | 1300    | 250          | 2000    | 10  | 107  | d1       |
| 006A   | MW-6      | W      | 58,000 | ND<500  | 560     | 4300    | 2400         | 13,000  | 100 | 106  | d1       |
| 007A   | MW-7      | W      | 7200   | ND<200  | 1200    | 1200    | 150          | 860     | 10  | 122  | d1       |
| 008A   | MW-8      | W      | 94     | ND      | 0.91    | 7.1     | 2.2          | 17      | 1   | 110  | d1       |
| 009A   | MW-9      | W      | 44,000 | ND<2200 | 14,000  | 520     | 1900         | 3400    | 100 | 119  | d1       |
| 010A   | MW-13     | W      | ND     | ND      | 0.53    | 3.2     | 1.1          | 7.5     | 1   | 108  |          |
|        |           |        |        |         |         |         |              |         |     |      |          |
|        |           |        |        |         |         |         |              |         |     |      |          |
|        |           |        |        |         |         |         |              |         |     |      |          |
|        |           |        |        |         |         |         |              |         |     |      |          |
|        |           |        |        |         |         |         |              |         |     |      |          |
|        |           |        |        |         |         |         |              |         |     |      |          |

|  |   |     |      |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50  | 5.0  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant





**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43010

WorkOrder: 0905091

| Analyte                | EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0905045-001A |     |          |     |
|------------------------|---------------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                        | 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) <sup>f</sup> | ND                        | 60     | 101                | 116    | 13.4   | 106    | 104    | 2.31     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND                        | 10     | 104                | 105    | 0.732  | 94.5   | 99.2   | 4.83     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND                        | 10     | 93.5               | 87.7   | 6.37   | 85.7   | 86.9   | 1.36     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | ND                        | 10     | 91.2               | 89.5   | 1.89   | 83.7   | 84.6   | 1.02     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND                        | 10     | 90.1               | 84.9   | 5.92   | 83.1   | 83.8   | 0.863    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | ND                        | 30     | 90.3               | 86.2   | 4.57   | 83.8   | 84.3   | 0.662    | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 111                       | 10     | 102                | 102    | 0      | 95     | 97     | 1.37     | 70 - 130                       | 20  | 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 43010 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0905091-006A | 05/05/09 10:15 AM | 05/08/09       | 05/08/09 1:09 AM | 0905091-007A | 05/05/09 10:50 AM | 05/08/09       | 05/08/09 3:47 AM |

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.



### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43025

WorkOrder: 0905091

| Analyte                | EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0905049-011A |     |          |     |
|------------------------|---------------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                        | 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) <sup>£</sup> | ND                        | 60     | 110                | 113    | 2.73   | 111    | 92.1   | 19.0     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND                        | 10     | 104                | 112    | 7.07   | 99.4   | 107    | 7.34     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND                        | 10     | 88.3               | 91     | 3.00   | 93.1   | 89.9   | 3.42     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | ND                        | 10     | 90.7               | 93.4   | 2.92   | 95.9   | 91.4   | 4.81     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND                        | 10     | 91.9               | 94.1   | 2.44   | 96.6   | 91.4   | 5.51     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | ND                        | 30     | 104                | 106    | 2.49   | 110    | 103    | 6.55     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 103                       | 10     | 103                | 102    | 1.06   | 103    | 102    | 0.753    | 70 - 130                       | 20  | 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 43025 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0905091-001A | 05/05/09 9:40 AM | 05/07/09       | 05/07/09 12:02 AM | 0905091-002A | 05/05/09 11:10 AM | 05/07/09       | 05/07/09 12:04 AM |
| 0905091-003A | 05/05/09 8:30 AM | 05/06/09       | 05/06/09 10:33 PM | 0905091-004A | 05/05/09 11:30 AM | 05/08/09       | 05/08/09 2:17 AM  |
| 0905091-005A | 05/05/09 9:00 AM | 05/06/09       | 05/06/09 11:28 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.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.





**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43076

WorkOrder: 0905091

| EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0905099-005B |     |          |     |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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) <sup>£</sup>    | ND     | 60                 | 106    | 112    | 5.51   | 81.3   | 91.6   | 12.0     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                      | ND     | 10                 | 91.2   | 94.7   | 3.69   | 93.9   | 94.5   | 0.558    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                   | ND     | 10                 | 90.9   | 90.2   | 0.862  | 93.4   | 97.8   | 4.59     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                   | ND     | 10                 | 89.9   | 89.5   | 0.409  | 90.1   | 93.6   | 3.79     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene              | ND     | 10                 | 95.6   | 95.3   | 0.277  | 94.7   | 99     | 4.45     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                   | ND     | 30                 | 106    | 105    | 0.815  | 93.6   | 99.9   | 6.48     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                      | 99     | 10                 | 89     | 90     | 0.637  | 96     | 99     | 2.11     | 70 - 130                       | 20  | 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 43076 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     |
|--------------|-------------------|----------------|------------------|--------------|------------------|----------------|-------------------|
| 0905091-008A | 05/05/09 11:40 AM | 05/06/09       | 05/06/09 9:02 PM | 0905091-009A | 05/05/09 1:30 PM | 05/07/09       | 05/07/09 11:46 PM |
| 0905091-010A | 05/05/09 1:00 PM  | 05/08/09       | 05/08/09 1:47 AM |              |                  |                |                   |

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43011

WorkOrder 0905091

| EPA Method SW8260B          |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0905030-013A |     |          |     |
|-----------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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 |
| Methyl-t-butyl ether (MTBE) | ND     | 10                 | 101    | 104    | 3.06   | 97.8   | 98.8   | 0.991    | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS1:                       | 83     | 25                 | 82     | 82     | 0      | 76     | 76     | 0        | 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 43011 SUMMARY

| Lab ID       | Date Sampled     | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     |
|--------------|------------------|----------------|-------------------|--------------|-------------------|----------------|-------------------|
| 0905091-001B | 05/05/09 9:40 AM | 05/06/09       | 05/06/09 10:11 PM | 0905091-006B | 05/05/09 10:15 AM | 05/06/09       | 05/06/09 10:49 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.

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.



**McC Campbell 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<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Auto (Q2, 2009) | Date Sampled: 05/05/09   |
|  | Client Contact: Ricky Bradford                    | Date Received: 05/05/09  |
|  | Client P.O.: #WC081618                            | Date Reported: 05/08/09  |
|  |   | Date Completed: 05/12/09 |

**WorkOrder: 0905091**

May 14, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#116907; Vic's Auto (Q2, 2009)**,
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.

0905091

**McCAMPBELL ANALYTICAL INC.**

1538 Willow Pass Road, Pittsburg, CA 94565

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?  Yes  No

PDF Required?  Yes  No

**Report To:** Ricky Bradford  
**Company:** AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597  
**P.O. #** WC081607  
**E-Mail:** rbradford@aeiconsultatns.com  
**Telephone:** (925) 944-2899, ext. 148  
**Fax:** (925) 944-2895  
**Project No:** 116907  
**Project Name:** Vic's Auto (Q2, 2009)  
**Project Location:** 245 8<sup>th</sup> Street, Oakland, CA 94607  
**Sampler Signature:** *[Signature]*

**Analysis Request** | **Other** | **Comments**

| SAMPLE ID | FIELD POINT NAME | SAMPLING |      | # of Containers | Type Containers | MATRIX |      |     |        |       | METHOD PRESERVED |     |                  |       | TPH-g & MBTEX (SW8015C/8021B)<br>TPH-d (SW8015C) | MTBE Only (SW8260B)<br><i>MTBE only added spikes 5 day</i> |  | Comments    |
|-----------|------------------|----------|------|-----------------|-----------------|--------|------|-----|--------|-------|------------------|-----|------------------|-------|--|--|--|-------------|
|           |                  | Date     | Time |                 |                 | Water  | Soil | Air | Sludge | Other | Ice              | HCl | HNO <sub>3</sub> | Other |  |  |  |             |
| MW-1      | MW-1             | 5/5/09   | 0945 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | DPE Well    |
| MW-2      | MW-2             |          | 1110 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | DPE Well    |
| MW-3      | MW-3             |          | 0830 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  |             |
| MW-4      | MW-4             |          | 1150 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  |             |
| MW-5      | MW-5             |          | 0900 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | DPE Well    |
| MW-6      | MW-6             |          | 1015 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | DPE Well    |
| MW-7      | MW-7             |          | 1050 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | DPE Well    |
| MW-8      | MW-8             |          | 1140 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  |             |
| MW-9      | MW-9             |          | 0330 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  |             |
| MW-10     | MW-10            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | Not Sampled |
| MW-11     | MW-11            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | Not Sampled |
| MW-12     | MW-12            |          |      | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  | Not Sampled |
| MW-13     | MW-13            |          | 1300 | 3               | VOA             | X      |      |     |        |       | X                | X   |                  | X     |  |  |  |             |

|                                     |              |            |                                 |
|-------------------------------------|--------------|------------|---------------------------------|
| Relinquished By: <i>[Signature]</i> | Date: 5/5/09 | Time: 6:00 | Received By: <i>[Signature]</i> |
| Relinquished By:                    | Date:        | Time:      | Received By:                    |
| Relinquished By:                    | Date:        | Time:      | Received By:                    |

ICE/° YES 7.0°C  
 GOOD CONDITION ✓  
 HEAD SPACE ABSENT ✓  
 DECHLORINATED IN LAB MA  
 PRESERVATION APPROPRIATE CONTAINERS ✓  
 PRESERVED IN LAB MA  
 VOAS | O&G | METALS | OTHER

+  
+  
+  
+  
+  
+  
+  
+  
+  
+

**McC Campbell Analytical, Inc.**



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

**CHAIN-OF-CUSTODY RECORD**

**WorkOrder: 090509 A ClientCode: AEL**

WriteOn  EDF  Excel  Fax  Email  HardCopy  ThirdParty  J-flag

**Report to:**

Ricky Bradford  
 AEI Consultants  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597  
 (925) 944-2899 FAX (925) 944-2895

Email: rbradford@aeiconsultants.com  
 cc:  
 PO: #WC081618  
 ProjectNo: #116907; Vic's Auto (Q2, 2009)

**Bill to:**

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

**Requested TAT: 5 days**

**Date Received: 05/05/2009**

**Date Add-On: 05/11/2009**

**Date Printed: 05/11/2009**

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0905091-002 | MW-2      | Water  | 5/5/2009 11:10  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-005 | MW-5      | Water  | 5/5/2009 9:00   | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-007 | MW-7      | Water  | 5/5/2009 10:50  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905091-009 | MW-9      | Water  | 5/5/2009 13:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |        |    |  |   |  |   |  |    |  |
|----|--------|----|--|---|--|---|--|----|--|
| 1  | MTBE_W | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |        | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |        | 12 |  |   |  |   |  |    |  |

**Prepared by: Samantha Arbuckle**

**Comments:** MTBE added 5/11/09 per email

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |   |                          |
|--|---|--------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Auto (Q2, 2009) | Date Sampled: 05/05/09   |
|  | Client Contact: Ricky Bradford                    | Date Received: 05/05/09  |
|  | Client P.O.: #WC081618                            | Date Extracted: 05/11/09 |
|  |   | Date Analyzed: 05/11/09  |

### Methyl tert-Butyl Ether\*

Extraction method SW5030B

Analytical methods SW8260B

Work Order: 0905091

| Lab ID | Client ID | Matrix | Methyl-t-butyl ether (MTBE) | DF  | % SS | Comments |
|--------|-----------|--------|-----------------------------|-----|------|----------|
| 002A   | MW-2      | W      | 8.6                         | 1   | 73   |          |
| 005A   | MW-5      | W      | ND<5.0                      | 10  | 73   | a3       |
| 007A   | MW-7      | W      | 77                          | 10  | 73   |          |
| 009A   | MW-9      | W      | 730                         | 100 | 72   |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |
|        |           |        |                             |     |      |          |

|  |   |     |      |
|--|---|-----|------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 0.5 | µg/L |
|  | S | NA  | NA   |

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

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.

a3) sample diluted due to high organic content.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43159

WorkOrder 0905091

| EPA Method SW8260B          |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0905188-006A |     |          |     |
|-----------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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 |
| Methyl-t-butyl ether (MTBE) | 1.7    | 10                 | 92.8   | 94.3   | 1.34   | 85.5   | 84.6   | 1.07     | 70 - 130                       | 30  | 70 - 130 | 30  |
| %SS1:                       | 98     | 25                 | 106    | 105    | 0.346  | 106    | 104    | 1.27     | 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 43159 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 0905091-002A | 05/05/09 11:10 AM | 05/11/09       | 05/11/09 6:55 PM | 0905091-005A | 05/05/09 9:00 AM | 05/11/09       | 05/11/09 7:33 PM |
| 0905091-007A | 05/05/09 10:50 AM | 05/11/09       | 05/11/09 8:11 PM | 0905091-009A | 05/05/09 1:30 PM | 05/11/09       | 05/11/09 9:27 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.

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.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

|  |   |                          |
|--|---|--------------------------|
| AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's<br>Automotive | Date Sampled: 05/19/09   |
|  | Client Contact: Ricky Bradford                  | Date Received: 05/20/09  |
|  | Client P.O.: #WC081646                          | Date Reported: 05/26/09  |
|  |   | Date Completed: 05/22/09 |

**WorkOrder: 0905396**

May 26, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **11** 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0905396

ClientCode: AEL

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

|  |   |   |   |
|--|---|---|---|
| Report to:<br>Ricky Bradford<br>AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597<br>(925) 283-6000    FAX (925) 944-2895 | Email: rbradford@aeiconsultants.com<br>cc:<br>PO: #WC081646<br>ProjectNo: #116907; Vic's Automotive | Bill to:<br>Denise Mockel<br>AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597<br>dmockel@aeiconsultants.com | Requested TAT: <b>5 days</b><br><br>Date Received: <b>05/20/2009</b><br>Date Printed: <b>05/20/2009</b> |
|--|---|---|---|

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0905396-001 | MW-1S     | Air    | 5/19/2009 12:06 | <input type="checkbox"/> | A                                  | A | A |   |   |   |   |   |   |    |    |    |  |
| 0905396-002 | MW-2S     | Air    | 5/19/2009 12:10 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-003 | MW-5S     | Air    | 5/19/2009 12:50 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-004 | MW-6S     | Air    | 5/19/2009 12:45 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-005 | MW-7S     | Air    | 5/19/2009 12:35 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-006 | MW-10S    | Air    | 5/19/2009 12:30 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-007 | MW-11S    | Air    | 5/19/2009 12:25 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-008 | MW-12S    | Air    | 5/19/2009 12:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-009 | PRED      | Air    | 5/19/2009 13:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-010 | AS        | Air    | 5/19/2009 13:15 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905396-011 | STACK     | Air    | 5/19/2009 13:00 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

|    |             |    |              |   |             |   |  |    |  |
|----|-------------|----|--------------|---|-------------|---|--|----|--|
| 1  | G-MBTEX_AIR | 2  | G-MBTEX_PPMV | 3 | PREF REPORT | 4 |  | 5  |  |
| 6  |             | 7  |              | 8 |             | 9 |  | 10 |  |
| 11 |             | 12 |              |   |             |   |  |    |  |

Prepared by: Melissa Valles

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/20/09 11:41:26 AM**  
Project Name: **#116907; Vic's Automotive** Checklist completed and reviewed by: **Melissa Valles**  
WorkOrder N°: **0905396** Matrix Air 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   
Samples Received on Ice? Yes  No

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted: Date contacted: Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                                   |
|--|--|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 05/19/09            |
|  | Client Contact: Ricky Bradford               | Date Received: 05/20/09           |
|  | Client P.O.: #WC081646                       | Date Extracted: 05/20/09-05/21/09 |
|  |  | Date Analyzed: 05/20/09-05/21/09  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0905396

| Lab ID | Client ID | Matrix | TPH(g) | MTBE  | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|-----------|--------|--------|-------|---------|---------|--------------|---------|----|------|----------|
| 001A   | MW-1S     | A      | 190    | ND    | 3.5     | 24      | 3.5          | 18      | 1  | 95   | d1       |
| 002A   | MW-2S     | A      | 1600   | ND<10 | 14      | 50      | 8.8          | 83      | 2  | 107  | d1       |
| 003A   | MW-5S     | A      | 1600   | ND<15 | 5.6     | 26      | 3.1          | 25      | 2  | 111  | d1       |
| 004A   | MW-6S     | A      | 72     | ND    | 1.9     | 3.7     | 0.73         | 9.1     | 1  | 101  | d1       |
| 005A   | MW-7S     | A      | 3200   | ND<50 | 96      | 130     | 7.8          | 86      | 20 | 103  | d1       |
| 006A   | MW-10S    | A      | 1300   | ND<15 | 16      | 30      | 5.1          | 59      | 2  | 100  | d1       |
| 007A   | MW-11S    | A      | 280    | ND<15 | 16      | 12      | 2.6          | 30      | 1  | 93   | d1       |
| 008A   | MW-12S    | A      | 190    | ND<15 | 15      | 6.9     | 2.1          | 16      | 1  | 101  | d1       |
| 009A   | PRED      | A      | 680    | ND<10 | 11      | 28      | 4.2          | 35      | 4  | 107  | d1       |
| 010A   | AS        | A      | ND     | ND    | ND      | ND      | ND           | ND      | 1  | 93   |          |
| 011A   | STACK     | A      | ND     | ND    | ND      | ND      | ND           | ND      | 1  | 96   |          |
|        |           |        |        |       |         |         |              |         |    |      |          |
|        |           |        |        |       |         |         |              |         |    |      |          |
|        |           |        |        |       |         |         |              |         |    |      |          |
|        |           |        |        |       |         |         |              |         |    |      |          |
|        |           |        |        |       |         |         |              |         |    |      |          |

|  |   |     |      |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 25  | 2.5  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | μg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | mg/Kg |

\* water and vapor samples are reported in μg/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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                                   |
|--|--|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 05/19/09            |
|  | Client Contact: Ricky Bradford               | Date Received: 05/20/09           |
|  | Client P.O.: #WC081646                       | Date Extracted: 05/20/09-05/21/09 |
|  |  | Date Analyzed: 05/20/09-05/21/09  |

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with MTBE and BTEX in ppmv\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0905396

| Lab ID | Client ID | Matrix | TPH(g) | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|-----------|--------|--------|--------|---------|---------|--------------|---------|----|------|----------|
| 001A   | MW-1S     | A      | 54     | ND     | 1.1     | 6.2     | 0.79         | 4.0     | 1  | 95   | d1       |
| 002A   | MW-2S     | A      | 460    | ND<2.0 | 4.3     | 13      | 2.0          | 19      | 2  | 107  | d1       |
| 003A   | MW-5S     | A      | 450    | ND<3.0 | 1.7     | 6.8     | 0.71         | 5.6     | 2  | 111  | d1       |
| 004A   | MW-6S     | A      | 20     | ND     | 0.59    | 0.98    | 0.17         | 2.1     | 1  | 101  | d1       |
| 005A   | MW-7S     | A      | 890    | ND<14  | 29      | 33      | 1.8          | 20      | 20 | 103  | d1       |
| 006A   | MW-10S    | A      | 370    | ND<5.0 | 4.9     | 7.7     | 1.2          | 13      | 2  | 100  | d1       |
| 007A   | MW-11S    | A      | 80     | ND<3.0 | 5.1     | 3.2     | 0.58         | 6.7     | 1  | 93   | d1       |
| 008A   | MW-12S    | A      | 52     | ND<3.0 | 4.7     | 1.8     | 0.47         | 3.5     | 1  | 101  | d1       |
| 009A   | PRED      | A      | 190    | ND<2.7 | 3.4     | 7.3     | 0.95         | 8.0     | 4  | 107  | d1       |
| 010A   | AS        | A      | ND     | ND     | ND      | ND      | ND           | ND      | 1  | 93   |          |
| 011A   | STACK     | A      | ND     | ND     | ND      | ND      | ND           | ND      | 1  | 96   |          |
|        |           |        |        |        |         |         |              |         |    |      |          |
|        |           |        |        |        |         |         |              |         |    |      |          |
|        |           |        |        |        |         |         |              |         |    |      |          |
|        |           |        |        |        |         |         |              |         |    |      |          |

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

|  |   |     |      |       |       |       |       |   |       |
|--|---|-----|------|-------|-------|-------|-------|---|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 7.0 | 0.68 | 0.077 | 0.065 | 0.057 | 0.057 | 1 | uL/L  |
|  | S | NA  | NA   | NA    | NA    | NA    | NA    | 1 | mg/Kg |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 43319

WorkOrder: 0905396

| EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0905386-004B |     |          |     |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| 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) <sup>f</sup>    | ND     | 60                 | 120    | 123    | 1.96   | 117    | 113    | 3.29     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                      | ND     | 10                 | 88.6   | 91.2   | 2.94   | 92.3   | 106    | 13.6     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                   | ND     | 10                 | 100    | 98.6   | 1.54   | 95.1   | 91.3   | 4.15     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                   | ND     | 10                 | 100    | 101    | 1.06   | 97.6   | 98.4   | 0.831    | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene              | ND     | 10                 | 101    | 98.7   | 2.15   | 98.3   | 93.6   | 4.84     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                   | ND     | 30                 | 104    | 102    | 2.29   | 110    | 106    | 4.28     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                      | 103    | 10                 | 101    | 105    | 3.38   | 102    | 111    | 9.04     | 70 - 130                       | 20  | 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 43319 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0905396-001A | 05/19/09 12:06 PM | 05/21/09       | 05/21/09 6:09 PM | 0905396-002A | 05/19/09 12:10 PM | 05/21/09       | 05/21/09 6:43 PM |
| 0905396-003A | 05/19/09 12:50 PM | 05/21/09       | 05/21/09 7:17 PM | 0905396-004A | 05/19/09 12:45 PM | 05/20/09       | 05/20/09 6:11 PM |
| 0905396-005A | 05/19/09 12:35 PM | 05/20/09       | 05/20/09 6:45 PM | 0905396-006A | 05/19/09 12:30 PM | 05/20/09       | 05/20/09 4:36 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.

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.



### QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 43328

WorkOrder: 0905396

| Analyte                | EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |          | Spiked Sample ID: 0905397-003A |     |          |     |
|------------------------|---------------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
|                        | 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) <sup>f</sup> | ND                        | 60     | 97                 | 103    | 6.10   | 107    | 110    | 3.03     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                   | ND                        | 10     | 82.6               | 81.8   | 1.07   | 81.8   | 85.7   | 4.64     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                | ND                        | 10     | 81.7               | 87.3   | 6.58   | 86.9   | 88.9   | 2.23     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                | ND                        | 10     | 83.4               | 90.7   | 8.32   | 88.3   | 90.6   | 2.53     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene           | ND                        | 10     | 83.7               | 90.7   | 7.99   | 88.7   | 91.4   | 3.07     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                | ND                        | 30     | 94.5               | 102    | 8.08   | 99.7   | 103    | 3.21     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                   | 102                       | 10     | 102                | 101    | 1.30   | 103    | 101    | 1.58     | 70 - 130                       | 20  | 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 43328 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0905396-007A | 05/19/09 12:25 PM | 05/20/09       | 05/20/09 4:05 PM | 0905396-008A | 05/19/09 12:15 PM | 05/21/09       | 05/21/09 4:17 PM |
| 0905396-009A | 05/19/09 1:15 PM  | 05/20/09       | 05/20/09 5:38 PM | 0905396-010A | 05/19/09 1:15 PM  | 05/20/09       | 05/20/09 6:08 PM |
| 0905396-011A | 05/19/09 1:00 PM  | 05/20/09       | 05/20/09 7:10 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.

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.



**McC Campbell Analytical, Inc.**

"When Quality Counts"

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

|  |   |                          |
|--|---|--------------------------|
| AEI Consultants<br>2500 Camino Diablo, Ste. #200<br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's<br>Automotive | Date Sampled: 05/19/09   |
|  | Client Contact: Ricky Bradford                  | Date Received: 05/20/09  |
|  | Client P.O.: #WC081647                          | Date Reported: 05/26/09  |
|  |   | Date Completed: 05/26/09 |

**WorkOrder: 0905397**

May 26, 2009

Dear Ricky:

Enclosed within are:

- 1) The results of the **3** 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





# McC Campbell Analytical, Inc.



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

**WorkOrder: 0905397**

**ClientCode: AEL**

WriteOn   
  EDF   
  Excel   
  Fax   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

|                   |                                      |                                      |                 |                               |                       |                   |
|-------------------|--------------------------------------|--------------------------------------|-----------------|-------------------------------|-----------------------|-------------------|
| <b>Report to:</b> | Ricky Bradford                       | Email: rbradford@aeiconsultants.com  | <b>Bill to:</b> | Denise Mockel                 | <b>Requested TAT:</b> | <b>5 days</b>     |
|                   | AEI Consultants                      | cc:                                  |                 | AEI Consultants               | <b>Date Received:</b> | <b>05/20/2009</b> |
|                   | 2500 Camino Diablo, Ste. #200        | PO: #WC081647                        |                 | 2500 Camino Diablo, Ste. #200 | <b>Date Printed:</b>  | <b>05/20/2009</b> |
|                   | Walnut Creek, CA 94597               | ProjectNo: #116907; Vic's Automotive |                 | Walnut Creek, CA 94597        |                       |                   |
|                   | (925) 283-6000    FAX (925) 944-2895 |                                      |                 | dmockel@aeiconsultants.com    |                       |                   |

| Lab ID      | Client ID | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
|             |           |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| 0905397-001 | INF       | Water  | 5/19/2009 12:55 | <input type="checkbox"/> | A                                  | A |   |   |   |   |   |   |   |    |    |    |  |
| 0905397-002 | POST-AS   | Water  | 5/19/2009 13:00 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |
| 0905397-003 | EFF       | Water  | 5/19/2009 13:10 | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |

**Test Legend:**

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

**Prepared by: Melissa Valles**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **5/20/09 12:02:53 PM**  
Project Name: **#116907; Vic's Automotive** Checklist completed and reviewed by: **Melissa Valles**  
WorkOrder N°: **0905397** 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: 7.2°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   
Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted: Date contacted: Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

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

|  |  |                                   |
|--|--|-----------------------------------|
| AEI Consultants<br><br>2500 Camino Diablo, Ste. #200<br><br>Walnut Creek, CA 94597 | Client Project ID: #116907; Vic's Automotive | Date Sampled: 05/19/09            |
|  | Client Contact: Ricky Bradford               | Date Received: 05/20/09           |
|  | Client P.O.: #WC081647                       | Date Extracted: 05/21/09-05/22/09 |
|  |  | Date Analyzed: 05/21/09-05/22/09  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0905397

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|-----------|--------|--------|------|---------|---------|--------------|---------|----|------|----------|
| 001A   | INF       | W      | 1100   | ---  | 53      | 99      | 15           | 190     | 1  | 106  | d1       |
| 002A   | POST-AS   | W      | 57     | ---  | 1.1     | 2.3     | ND           | 4.4     | 1  | 104  | d1       |
| 003A   | EFF       | W      | ND     | ---  | ND      | ND      | ND           | ND      | 1  | 102  |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |
|        |           |        |        |      |         |         |              |         |    |      |          |

|  |   |     |      |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | W | 50  | 5.0  | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 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 McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 43328

WorkOrder 0905397

| EPA Method SW8021B/8015Bm |        | Extraction SW5030B |        |        |        |        |        |          | Spiked Sample ID: 0905397-003A |     |          |     |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte                   | Sample | Spiked             | MS     | MSD    | MS-MSD | LCS    | LCSD   | LCS-LCSD | Acceptance Criteria (%)        |     |          |     |
|                           | µg/L   | µg/L               | % Rec. | % Rec. | % RPD  | % Rec. | % Rec. | % RPD    | MS / MSD                       | RPD | LCS/LCSD | RPD |
| TPH(btex) <sup>£</sup>    | ND     | 60                 | 97     | 103    | 6.10   | 107    | 110    | 3.03     | 70 - 130                       | 20  | 70 - 130 | 20  |
| MTBE                      | ND     | 10                 | 82.6   | 81.8   | 1.07   | 81.8   | 85.7   | 4.64     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Benzene                   | ND     | 10                 | 81.7   | 87.3   | 6.58   | 86.9   | 88.9   | 2.23     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Toluene                   | ND     | 10                 | 83.4   | 90.7   | 8.32   | 88.3   | 90.6   | 2.53     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Ethylbenzene              | ND     | 10                 | 83.7   | 90.7   | 7.99   | 88.7   | 91.4   | 3.07     | 70 - 130                       | 20  | 70 - 130 | 20  |
| Xylenes                   | ND     | 30                 | 94.5   | 102    | 8.08   | 99.7   | 103    | 3.21     | 70 - 130                       | 20  | 70 - 130 | 20  |
| %SS:                      | 102    | 10                 | 102    | 101    | 1.30   | 103    | 101    | 1.58     | 70 - 130                       | 20  | 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 43328 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed     | Lab ID       | Date Sampled     | Date Extracted | Date Analyzed    |
|--------------|-------------------|----------------|-------------------|--------------|------------------|----------------|------------------|
| 0905397-001A | 05/19/09 12:55 PM | 05/22/09       | 05/22/09 3:50 PM  | 0905397-002A | 05/19/09 1:00 PM | 05/22/09       | 05/22/09 4:21 PM |
| 0905397-003A | 05/19/09 1:10 PM  | 05/21/09       | 05/21/09 10:54 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.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or 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, or inconsistency in sample containers.

## **APPENDIX D**

### **Regulatory Correspondence**

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

July 24, 2009

Mr. Richard Lum and Ms. Linda Lum  
2188 Hillside Drive  
San Leandro, CA 94577-6369

Mr. Victor Lum  
Vic's Automotive  
245 8<sup>th</sup> Street  
Oakland, CA 94607

Subject: Fuel Leak Case No. RO0000202 and Geotracker Global ID T0600101143, Vic's Automotive, 245 8<sup>th</sup> Street, Oakland, CA 94607 – Groundwater Monitoring Requirements

Dear Mr. and Ms. Lum and Victor Lum:

The purpose of this correspondence is to inform you of changes to groundwater monitoring requirements for all fuel leak cases in California. The California State Water Resources Control Board (State Water Board) has approved Resolution No. 2009-0042 (*Actions to Improve Administration of the UST Cleanup Fund and UST Cleanup Program*). Resolution No. 2009-0042 states that, "*Regional Water Board and LOP agencies shall reduce quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all site unless site-specific needs warrant otherwise and shall notify all responsible parties of the new requirements no later than August 1, 2009. If more than semiannual monitoring is required for a case, the responsible party and State Water board shall be notified of the rationale and the notice shall be posted on Geotracker.*"

In accordance with Resolution No. 2009-0042, groundwater monitoring for your site is to be reduced from quarterly to semiannual monitoring unless site-specific needs warrant otherwise. The semiannual monitoring is to be conducted during either the first and third quarters or during the second and fourth quarters. Please review historic groundwater monitoring results and identify the quarter during which the highest chemical concentrations typically occur in order to select the appropriate semiannual monitoring schedule. As an example, if the highest chemical concentrations in groundwater are typically reported during the first quarter, the wells should be sampled on a first and third quarter monitoring schedule. If you believe that site-specific conditions warrant continuation of quarterly groundwater monitoring for any wells, please submit a proposed sampling and analysis schedule along with your technical rationale supporting the proposal by **August 24, 2009**.

A semiannual groundwater monitoring should be used only for wells that have been sampled over a minimum of one hydrologic cycle (four consecutive quarters). New monitoring wells should be sampled quarterly for one year before a semiannual monitoring schedule is implemented for new wells.

Mr. and Ms. Lum and Victor Lum  
RO0000202, July 24, 2009, Page 2

Any groundwater monitoring wells that are currently sampled on a less frequent schedule than semiannual (annual or longer) may continue to be sampled on the less frequent schedule. Please present results from the semiannual groundwater monitoring in groundwater monitoring reports no later than 60 days following the groundwater sampling event.

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032  
(Sent via E-mail to: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com))

Donna Drogos, ACEH (Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Jerry Wickham, ACEH  
Geotracker, File



**RESPONSIBLE PARTY OF RECORD AS OF 07/22/2009**

**RO0000202, VIC'S AUTOMOTIVE SERVICE, 245 8TH ST , Oakland, CA, 94607**

Alameda County Environmental Health (ACEH) has the following information on record regarding the Responsible Party(ies) for the above referenced site. Please update the following information for our records. Should you have contact information regarding additional Responsible Parties, please correct the information accordingly. Also, please check the "e-mail preferred" box to receive all future correspondences and notifications by e-mail.

E-mail Preferred

Hardcopy Preferred

ACEH is requesting your e-mail address so that we can correspond with you quickly and efficiently regarding your case. Please note that ACEH respects your privacy. Your e-mail address will remain confidential and will not be provided to any third party.

Current Information

RICHARD & LINDA LUM  
RICHARD & LINDA LUM TRUST  
2188 HILLSIDE DR  
SAN LEANDRO CA 94577

VICTOR LUM  
VICKS AUTOMOTIVE SERVICE  
245 8TH ST  
OAKLAND CA 94607

Corrections or Additions

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Home Phone: (\_\_\_\_) \_\_\_\_\_  
Office Phone: (\_\_\_\_) \_\_\_\_\_  
Cell Phone: (\_\_\_\_) \_\_\_\_\_

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Home Phone: (\_\_\_\_) \_\_\_\_\_  
Office Phone: (\_\_\_\_) \_\_\_\_\_  
Cell Phone: (\_\_\_\_) \_\_\_\_\_

## Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

ISSUE DATE: July 5, 2005

REVISION DATE: March 27, 2009

PREVIOUS REVISIONS: December 16, 2005, October 31, 2005

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

### REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

### Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

### Submission Instructions

#### 1) Obtain User Name and Password:

- a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
  - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)
  - Or
  - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
- b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**

#### 2) Upload Files to the ftp Site

- a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
  - (i) Note: Netscape and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
- d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

#### 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs

- a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
- b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
- c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
- d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

## **APPENDIX E**

### **Proposed Groundwater Monitoring Schedule**

**APPENDIX E: CURRENT & PROPOSED GROUNDWATER MONITORING SCHEDULE (DRAFT)**

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

| Field Point Name | Well Type / Use (Screen Interval)          | CURRENT MONITORING SCHEDULE  |                 |                     | PROPOSED MONITORING SCHEDULE |                 |                     |
|------------------|--|--|-----------------|---------------------|------------------------------|-----------------|---------------------|
|                  |  | TPH-g (SW8015C)  | MBTEX (SW8021B) | MTBE Only (SW8260B) | TPH-g (SW8015C)              | MBTEX (SW8021B) | MTBE Only (SW8260B) |
| *MW-1            | 4" Monitoring / Extraction Well (8 to 28)  | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| *MW-2            | 2" Monitoring / Extraction Well (8 to 28)  | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| MW-3             | 2" Monitoring Well (10 to 25)              | Q  | Q               | AN                  | A (Q4)                       | A (Q4)          | AN                  |
| MW-4             | 2" Monitoring Well (10 to 25)              | Q  | Q               | AN                  | A (Q4)                       | A (Q4)          | AN                  |
| *MW-5            | 4" Monitoring / Extraction Well (12 to 22) | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| *MW-6            | 4" Monitoring / Extraction Well (12 to 22) | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| *MW-7            | 4" Monitoring / Extraction Well (12 to 22) | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| MW-8             | 4" Monitoring Well (12 to 22)              | Q  | Q               | AN                  | A (Q4)                       | A (Q4)          | AN                  |
| MW-9             | 2" Monitoring Well (12 to 22)              | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| MW-10            | 4" Monitoring / Extraction Well (12 to 22) | Wellheads removed and active extraction wells burried beneath new residential construction in August of 2008 |                 |                     |                              |                 |                     |
| MW-11            | 4" Monitoring / Extraction Well (12 to 22) | Wellheads removed and active extraction wells burried beneath new residential construction in August of 2008 |                 |                     |                              |                 |                     |
| MW-12            | 4" Monitoring / Extraction Well (12 to 22) | Wellheads removed and active extraction wells burried beneath new residential construction in August of 2008 |                 |                     |                              |                 |                     |
| MW-13            | 2" Monitoring Well (12 to 22)              | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| **MW-14          | New 2" Monitoring Well (12 to 22)          | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| **MW-15          | New 2" Monitoring Well (12 to 22)          | Q  | Q               | AN                  | Q                            | Q               | AN                  |
| **MW-16          | New 2" Monitoring Well (12 to 22)          | Q  | Q               | AN                  | Q                            | Q               | AN                  |

**NOTES:**

\*For remediation progress monitoring, the onsite monitoring / extraction wells (MW-1, 2, 5, 6, & 7) will be sampled quarterly only if the HVDPE system is not operating

\*\*New monitoring wells, which were installed in July of 2009, have not been sampled and should be monitored quarterly for at the first year or one (1) hydrologic cycle

Q = Quarterly

SA = Semi-Annual

A = Annual

AN = As Needed

A followed by (Q4) means that annual sampling will occur in the Fourth Quarter