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December 14, 2005

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Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Subject: High Vacuum Dual Phase Extraction Event Report 245 8th Street Oakland, California 94607 AEI Project No. 9482 ACHCSA Case No. RO0000202 / State ID 263

Dear Mr. Chan:

Enclosed is one electronic copy of the High Vacuum Dual Phase Extraction Event Report for the subject facility.

If you have any questions or comments, please don't hesitate to contact me or Peter McIntyre at (925) 283-6000.

Sincerely, **AEI Consultants**

Ricky Bradford Senior Staff Engineer

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December 14, 2005

HIGH VACUUM DUAL PHASE EXTRACTION EVENT REPORT

245 8th Street Oakland, California

ACHCSA Fuel Leak Case RO0000202 AEI Project No. 9482

Prepared For:

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

Prepared By:

AEI Consultants 2500 Camino Diablo, Suite 200 Walnut Creek, CA 94597 800/801-3224



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1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report on behalf of Mr. Victor Lum of Vic's Automotive, owner and operator of the fuel station and auto repair business located at 245 8th Street in the City of Oakland, Alameda County, California (Figure 1). AEI has been retained to provide environmental engineering and consulting services related to the release of petroleum hydrocarbons from the former underground storage tank (UST) system on the property. The investigation and mitigation of the release is being performed under the direction of the Alameda County Health Care Services Agency (ACHCSA).

The report documents the methods and results of the high vacuum dual phase extraction (HVDPE) event conducted at the site between July 11 and July 27, 2005. These activities were proposed to and approved by the ACHCSA. The purpose of these activities was to initiate interim free phase hydrocarbon product recovery and to evaluate the effectiveness of this method for removing petroleum hydrocarbons from the soil and groundwater beneath and around the subject property.

2.0 SITE DESCRIPTION

The subject property (hereafter referred to as the "site" or "property") is located in a mixed commercial and residential area of Oakland, Alameda County, California. The site is a lot on the south corner of Alice Street and 8th Street, and is currently developed with a gasoline 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 used for automotive repair, cashier, and office. The current UST hold and the dispenser island are located to the north of the building, along 8th Street. The remainder of the property is paved with asphalt.

3.0 SITE HISTORY

Between June 1993 and August 1994, AEI removed a total of seven (7) underground storage tanks (USTs) from the property. The tanks consisted of four (4) 1,000-gallon and two (2) 6,000-gallon gasoline tanks and one (1) 250-gallon waste oil tank. The former locations of the tanks are shown on Figure 2. Impacted soil was removed from beneath the former tank area. Groundwater was encountered beneath the former 6,000-gallon tanks. Light non-aqueous phase liquid (LNAPL) was observed on the water table beneath the southern tank. The excavated soil was transported to an appropriate disposal facility and the excavation was backfilled with clean fill material. A new tank system was installed just west of the dispenser island.

Two groundwater monitoring wells (MW-1 and MW-2) were installed in July 1995. The first two episodes of monitoring revealed total petroleum hydrocarbons as gasoline (TPH-g) and Benzene up to 210,000 μ g/L and 720 μ g/L, respectively, in MW-2. LNAPL was discovered in MW-1, which ranged from 1.20 to 4.39 feet thick between December 1995 and March 1996.

Three soil borings (SB-1 through SB-3) were advanced in August 1996. Groundwater samples collected from each of the borings contained TPH-g and Benzene ranging from 120,000 to 140,000 μ g/L, and from 12,000 to 19,000 μ g/L, respectively. Methyl tertiary-butyl ether (MTBE) was also present in all three samples, up to 27,000 μ g/L. Although free phase product was not observed in the field, qualitative laboratory observations indicated an immiscible sheen in the samples. Manual bailing and pumping of LNAPL from MW-1, and monitoring of MW-2 occurred intermittently through 1997. Two additional groundwater monitoring wells (MW-3 and MW-4) were installed in May 2001. Refer to Tables 1 to 3 for data collected from these wells. An LNAPL recovery pump was installed in MW-1 in June 2001.

Fourteen (14) additional soil borings were performed on and offsite in 2003, from which soil, groundwater, and soil vapor samples were collected to further characterize the extent of the release. On January 11, 19, and 20, 2005, AEI installed a total of six (6) additional wells; three (3) extraction/monitoring wells on the subject site (MW-5 to MW-7) and three (3) extraction/monitoring wells at 708 Alice Street (MW-10 to MW-12). Note that wells MW-8 and MW-9 were proposed for installation in the public right of way, north of and west of the site. However, due to insurance and permitting limitations imposed by the City of Oakland, these wells were not been installed, and likely cannot be installed in City of Oakland right-of-way. Surveying of the six new wells and the pilot test were postponed temporarily as the permitting and insurance issues were addressed; however when it became apparent that the property owners insurance would not satisfy the City, these activities were performed.

Refer to Figure 2 for locations of monitoring wells, soil borings, and former USTs. Historical analytical data is included in Tables 1 through 6 and Table 8.

4.0 GEOLOGY AND HYDROLOGY

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 Deposits (Qms) (Helley, et al, 1997). Depth to the Franciscan Formation basement underlying the unconsolidated deposits is approximately 400 feet (Norfleet, 1998).

Based on the logs of soil borings advanced at the site, 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 hydrologic system. Sediments have been relatively uniform throughout the investigation area and both sand units appear to represent a single hydrologic system. 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 water levels fluctuate by approximately 3 to 4 feet. Groundwater has consistently flowed to the south-southeast with a hydraulic gradient of approximately 10^{-3} ft/ft.

5.0 SITE CONCEPTUAL MODEL

The release occurred from the former gasoline USTs, located on the western side of the property. During removal of the southern-most 6,000-gallon UST, free phase product was observed in the excavation, floating on the water table. The quantity of fuel released is unknown.

Based on historical depth to water measurements and the former depths of the UST(s), the product was released directly onto or just above the water table. Over time, and with seasonal water table fluctuations, the fuel product has significantly impacted the capillary fringe and has created a smear zone from depths of approximately 14 to 20 feet bgs. Refer to Table 4 for soil sample analytical data. The free phase product has been entrained, or trapped, within the pore space of the fine grained sediments. In addition, a significant mass of mobile, free phase product has been observed in the release area as well as detected as a dissolved phase plume in monitoring wells and soil borings.

Groundwater predominantly flows in a south-southeasterly direction, causing the release spread in this direction. Soil and groundwater data collected approximately 60 to 80 feet to the south in the vacant lot (708 Alice) reveals that significant hydrocarbons have migrated beneath the two apartment buildings. Although LNAPL has not been measured in MW-10, MW-11, or MW-12, the dissolved phase concentrations (essentially at saturation) and soil sample data from these wells and borings SB-2, SB-3, and SB-4 support the conclusion that mobile, free phase hydrocarbons have migrated at least this distance to the south and beneath Alice Street. The extent of dissolved phase hydrocarbon plume has been reasonably well defined with wells MW-3 (up-gradient) and MW-4 (cross-gradient, east) and borings SB-6 and SB-12 (cross-gradient, west) and SB-13 to SB-15 (down-gradient).

No water wells were identified near the site during a well survey of Department of Water Resource (DWR) records. Other potential human exposure pathways include volatilization of contaminants into occupied spaces from soil and/or groundwater as well as direct contact with impacted soil or groundwater, if construction activities were to occur.

6.0 **PERMITS**

Prior to mobilizing onsite, a water discharge permit was obtained from the East Bay Municipal Utility District (EBMUD) to discharge treated groundwater to the sanity sewer (Special Permit No. 22517851). A copy of the permit is included in Appendix A, which also includes a copy of the analytical report for the sample collected during the initial discharge. CalClean, Inc., owner and operator of the treatment unit, maintains a various locations permit (Plant # 12568) for the unit from the Bay Area Air Quality Management District (BAAQMD). A stack discharge sample [labeled "STACK" (laboratory ID: 0507146-002A), July 11, 2005] was collected during the course of operation. A copy of the analytical report containing the results of analysis of this sample is included in Appendix A.

7.0 HVDPE EVENT ACTIVITIES

The HVDPE event was conducted from July 11 to July 27, 2005. Equipment was mobilized to the site on the morning of July 11. Prior to startup of the equipment, equipment operators and AEI staff reviewed the system operation and emergency shut-off controls and safety features, health and safety plan, and contingency measures. The site operator was briefed on the operating procedures and a work area was established around the system. The mobile treatment unit was provided and operated by CalClean, Inc. The unit consisted of a 25 horsepower liquid ring vacuum pump capable of up to 450 CFM, water knockout tank, thermal oxidizer, diesel generator and propane supply, spray aeration tank, 1,000-gallon water holding tank, and 200-lb carbon canisters for secondary groundwater treatment. CalClean personnel were onsite 24 hours per day monitoring operating parameters and ensuring optimal system uptime. The extraction event was originally scheduled to run for 5 days. However, after several days of extraction, it was evident that hydrocarbon recovery rates were high and the event was extended to 15 days in an effort to maximize hydrocarbon mass removal. The system ran almost continuously through July 27, with the exception of periodic downtime to replace a thermocouple and to refill the diesel generator (the subject site does not sell diesel fuel). Overall, the system uptime was approximately 95%.

7.1 Equipment Setup

Beginning at approximately 11:00 am on July 11, extraction began on wells MW-1, MW-6 and MW-7. The selected wells were connected to the vacuum manifold with 1 ¹/₂" diameter flexible vacuum hose. The hose was protected with temporary drive bumps so as to not unnecessary close drive areas of the property. The hose was connected to the wellhead and affixed with a vacuum gauge.

Initially the drop tube, or stinger, was set in the wells at 1 foot below the static water level and the wellhead sealed. Once vacuum was applied to the well and water levels decreased in the wells, the stingers were lowered to draw down the water in the well to a sustainable level. Eventually, each stinger was lowered to a depth of 20 feet bgs, approximately 3 to 5 feet below static water levels.

Prior to beginning discharge, treated water was stored temporarily in the 1,000-gallon holding tank. At approximately 6:00 pm on July 11, the temporary water tank was filled. The stingers were retracted to above static water and vapor only was extracted until the treated water samples were reviewed and discharge could begin. Water samples were collected and analyzed per EBMUD permit conditions on a rush turnaround. Following receipt and review of the data, water discharge to the sewer began.

After beginning discharge on July 12, the stingers in the three wells were again gradually lowered to 20 feet. Wells MW-2 and MW-5 were connected to the extraction system on July 13 at approximately 10:00 am.

7.2 Monitoring and Data Collection

During extraction, the following operating parameters were recorded on a regular basis: unit vacuum (in Hg), wellhead vacuum (in Hg), total vapor flow in standard cubic feet per minute (scfm), thermal oxidizer temperature (deg F), oxidizer influent and individual well hydrocarbon concentrations (ppmv) using a Horiba field organic vapor analyzer (calibrated as hexane), and the stinger depth.

Water levels were manually recorded throughout the event on selected wells, including MW-3, and MW-11, and on wells MW-2 and MW-5 until they were connected to the extraction system. Induced vacuum was monitored on wells MW-3 and MW-11.

In wells MW-4 and MW-10, Mini-TrollTM two-channel, data loggers were installed. The data loggers were equipped with a pressure transducer and temperature sensor. The data loggers were set to record pressure (as feet of water column above the transducer) and temperature at regular time intervals. The data was collected for evaluation of aquifer drawdown in the vicinity of the site. Upon completion of the extraction event, the data was downloaded onto a laptop computer.

Air samples of system influent vapor were collected periodically during extraction test operations. The influent samples were collected into 1-liter TedlarTM bags from each extraction well. Composite influent vapor samples were also collected. Vapor samples were analyzed at McCampbell Analytical, Inc. (DHS # 1644) of Pacheco, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA method 8015Cm, MTBE, and benzene, toluene, ethyl-benzene, and xylenes (BTEX) by EPA method 8021B.

On the last day of the event (7/27/05), following shutdown of the system and recovery of water levels, groundwater samples were collected from selected wells to evaluate to conditions following extraction and as a baseline of any rebound in dissolved phase concentrations. Samples were bailed for MW-2, MW-4, MW-5, and MW-11 and analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by EPA method 8015Cm, MTBE, and benzene, toluene, ethyl-benzene, and xylenes (BTEX) by EPA method 8021B.

A summary field report prepared by CalClean in included as Appendix C. This report includes field data sheets, vapor sample analytical data, plots of hydrocarbons recovery rates and estimates of total hydrocarbon recovery. Plots of pressure transducer data from wells MW-4 and MW-10 are included in Appendix B. Sample analytical data from well gas is summarized in Table 7 and laboratory reports are included as Appendix D.

8.0 **Observations**

8.1 Hydrocarbon Removal Rates

Beginning at approximately 11:00 am on July 11, extraction began on wells MW-1, MW-6. Total influent hydrocarbon concentrations, as measured by the field analyzer ranged from

approximately 6,350 part per million by volume (ppmv) to 18,170 ppmv. In general, the lower concentrations were recorded during times when vapor extraction only was performed, while waiting for water discharge permission. Toward the end of the event, concentrations stabilized in the 8,000 to 9,000 ppmv range. Vapor flow rates, when extracting on the 5 wells ranged from approximately 170 to 190 scfm, under a sustained vacuum at the manifold of 16 to 17 inches of mercury (in Hg). Based on CalClean calculations, a total of approximately 10,600 pounds of hydrocarbons were removed in the vapor phase during the event (Appendix C). Assuming a 95% system uptime, this converts to approximately 697 pounds per day of vapor phase hydrocarbons removed. Based on an average hydrocarbon concentration of 101,333 ug/L (average of wells MW-2, MW-5, and MW-6), and an average flow rate of 4.1 gallon per minute (gpm), approximately 5 lbs/day of dissolved phase hydrocarbons were removed.

Vapor sample analytical data collected from individual wells and composite samples is presented in Table 7; TPH-g concentrations plotted vs. time is presented in Figure 4. Field readings of influent hydrocarbon concentrations is included in the CalClean report (Appendix C).

8.2 Vacuum Response

Induced vacuum was measured on two wells, MW-3 and MW-11, located approximately 35 and 74 feet from the nearest extraction well, respectively. Vacuum response on MW-3 ranged from 0.00 to 0.25 inches of water. This vacuum response was inconsistent, indicating that it may have been barometric pressure changes or very slight subsurface response. No response was measured in MW-11. Based on these vacuum response observations, the effective radius of influence (ROI) for vacuum extraction is less than 35 feet.

8.3 Water Levels

During the extraction event, a total of 80,740 gallons of water was removed. This equates to a flow rate of approximately 4.1 gallons per minute from all wells, considering approximately 95% run time. Water levels were recorded in observation wells to evaluate drawdown around the extraction area. Pressure transducer data is presented in Appendix X for wells MW-4 and MW-10. Based on these measurements, drawdown of approximately 1.7 feet was sustained in MW-4 and 1.6 feet in MW-10. These wells were located approximately 60 and 53 feet away from the nearest extraction well, respectively. Manual water level measurements collected from wells MW-3 and MW-11 reveal an approximate drawdown of 1.7 feet at 35 feet away and 0.6 feet at 74 feet away in these wells, respectively. Although the test was not intended to collect sufficient data for a detail capture zone analysis, these observations indicate that the dissolved phase hydrocarbon plume may be controlled by groundwater extraction from the Lum property.

8.4 Groundwater Data

During the year prior to the extraction event, LNAPL had been present in MW-1 at thickness of 0.12 to 0.24 feet; however in the two monitoring events since the event, LNAPL has been measured at 0.01 feet thick. Dissolved hydrocarbon concentrations decreased significantly in MW-2 in the sample collected on the last day of the event (7/27/05); however have rebounded to historic levels since then. In wells MW-6 and MW-7, free product thickness has increased since the extraction event from sheen to 0.37 feet in MW-6 and from 0.03 to 0.12 feet in MW-7. This suggests that LNAPL may have been pulled back toward these wells during extraction and that hydrocarbons adsorbed to the soils have mobilized to the free and/or dissolved phase. Dissolved hydrocarbon concentrations in MW-10 to MW-12 remain significant (Table 3).

9.0 CONCLUSIONS

The high hydrocarbon recovery rates sustained through the duration of the event demonstrates that dual phase extraction would be effective at removing significant hydrocarbon mass from the subsurface. Both hydrocarbon concentrations and vapor flow rates increased significantly as groundwater was extracted, as compared to data collected on July 12 and 13 when the stingers were lifted above the water table. This confirms that significant mass of hydrocarbons is present within the saturated zone and capillary fringe which is recoverable using this approach. This is strongly supported by soil sample analytical data (Table 4), particularly borings SB-4, SB-7, SB-11 and MW-5 to MW-7 and MW-10 to MW-12 and continued presence of LNAPL in several wells. The high sustained removal rates and the monitoring data since the extraction occurred confirm that a significant mass remains despite the large volume removed during the event.

10.0 RECOMMENDATIONS

AEI recommends that a high vacuum dual phase extraction approach to remediation be implemented at the site. In addition to removal of significant hydrocarbon mass, plume control is expected down-gradient of the site, based on the drawdown measured in observation wells. In addition, vacuum extraction at the southern end of the property (near wells MW-2, MW-6, and MW-7) will reduce the likelihood of volatilization of contaminant vapors into the adjacent residential buildings.

Once free phase hydrocarbon removal has been performed, it is understood that a less aggressive approach may be necessary to mitigate residual hydrocarbons that may remain in the dissolved phase. A formal corrective action plan, evaluating several such methods, should be prepared following implementation of the recommended interim free phase hydrocarbon removal and evaluation of progress. Such secondary treatment methods may include one or more of the following such as air sparging coupled with vapor extraction or bioventing, *in-situ* chemical oxidation (i.e., ORC®, hydrogen peroxide, ozone, etc) of residual hotspots, enhanced aerobic bioremediation (i.e., butane or propane injection), and monitored natural attenuation.

HVPDE can be implemented utilizing fixed base equipment or periodic short-term mobilization of truck-mounted equipment, such as was utilized during this treatment event. Each approach has significant advantages and disadvantages. A summary of these and approximate costs are presented below.

	Mobile Equipment	Fixed
Timing	Can be onsite within weeks, permitting limited	Permitting and installation can take 3 to 6 months
Cost	No or low capital cost (permitting and consulting only). High monthly (event) costs for equipment rental and personnel	High initial capital costs, lower monthly operating expenses
Reliability	Less down-time if system if continuously manned	Telemetry needed to provide shut-down notification.
Flexibility	Well can be changed easily, no trenching, less site disruption	Requires trenching and construction of compound.

Although not the only deciding factor, cost variables are significantly different between the two HVDPE approaches, primarily depending on the length of intended operation. For a fixed base system, capital costs (assuming unit purchase, including permits, utility connection, and a contingency) of upwards of \$ 275,000.00 is expected with monthly operation and maintenance (O&M) of \$ 12,000.00, including energy (electrical and supplemental fuel). A mobile treatment unit, actively manned, can cost approximately \$ 90,000.00 per month long (30 day) event, including consulting fees. Based on these estimated costs, mobile equipment is more cost effective at 3 months or less of operation, but construction of a fixed base unit becomes more cost effective after 4 months. As is commonly employed, mobile equipment can be effective when scheduled periodically, say for 1 continuous month of every 2 months. In this case, mobile equipment would be more cost effective for 3 month long event over 6 months as compared to 6 months of fixed base operation; however if longer extraction is necessary, fixed based equipment would be more cost effective. It should be noted that long-term hydrocarbon recovery rates can be difficult to predict and may increase or decrease significantly as extraction progresses. Based on the significant mass of hydrocarbons estimated to remain at the site, more than several months of extraction are expected necessary to accomplish adequate mass removal, thus supporting the installation of fixed based equipment.

AEI recommends the following steps be implemented for the site to implement HVDPE interim corrective action:

- Engineered design of a fixed dual phase extraction blower system, based on data collected during the event, including liquid and vapor phase contaminant abatement devises
- Establishing O&M plan and sampling program
- Permit system, including BAAQMD and EBMUD based on design parameters
- Construction and startup of equipment

Based on anticipated permitting and equipment procurement times, AEI expects that the system can be operational within 4 to 6 months of approval of the ACHCSA, likely within the 3rd Quarter 2006. Following 6 to 12 months of operation, an evaluation of system effectiveness should be

performed and a formal, risk based corrective action plan prepared to mitigate any residual pollution.

11.0 REFERENCES

Helley, E.J., et al, Quaternary Geology of Alameda County and Surrounding Areas, California, 1997

Norfleet Consultants, Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, CA, June 19, 1998

12.0 CLOSING STATEMENT AND SIGNATURES

This report, which has been prepared by AEI on behalf of the Vic's Automotive, summarizes pilot test and interim corrective action activities utilizing HVDPE technology to mitigate the release of petroleum hydrocarbons from the UST system on the property located at 245 8th Street in the City of Oakland. The recommendations rendered in this report were based on observations and laboratory testing. The specified work has been performed in accordance with generally accepted practices in geotechnical and environmental engineering and geology and under the direction of appropriate registered professionals.

We look forward to comment regarding this project. Should you need additional information, please contact either of the undersigned.

Sincerely, RED **AEI Consultants** Peter J. McIntyre, PG Senior Project Manager

Robert F. Flory, PG

Senior Project Geologist

Ricky Bradford Senior Staff Engineer

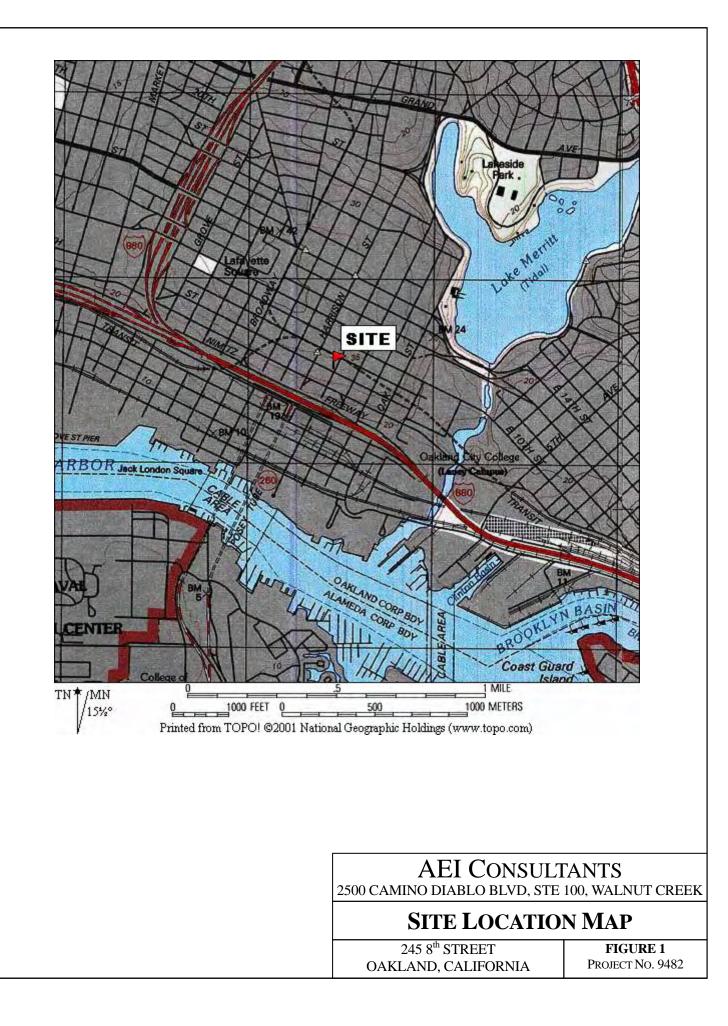
Distribution: Mr. Victor Lum, Vic's Automotive 245 Alice, Oakland, CA 94607

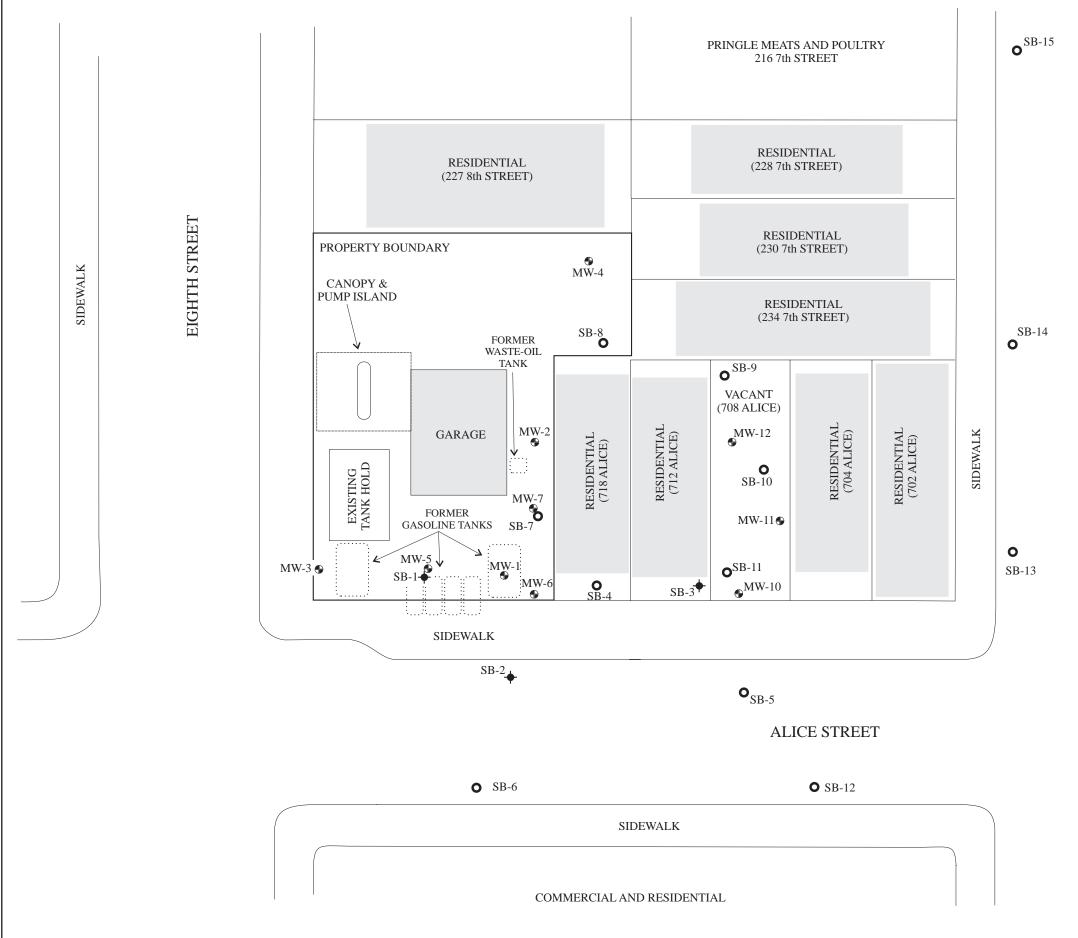
> Mr. Jerry Wickham, ACHCSA 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Mr. Sunil Ramdass, UST Cleanup Fund 1001 I Street, Sacramento, CA 94224

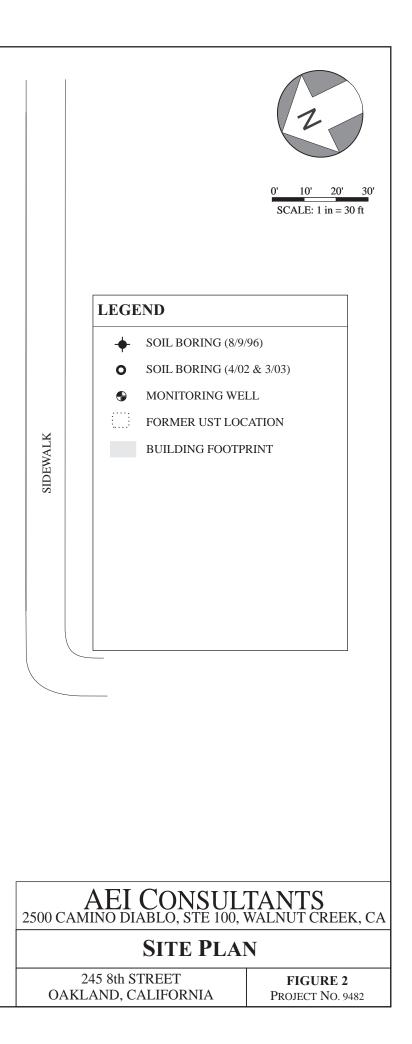
> HVDPE Event Report AEI Project No. 9482 December 14, 2005 Page 9

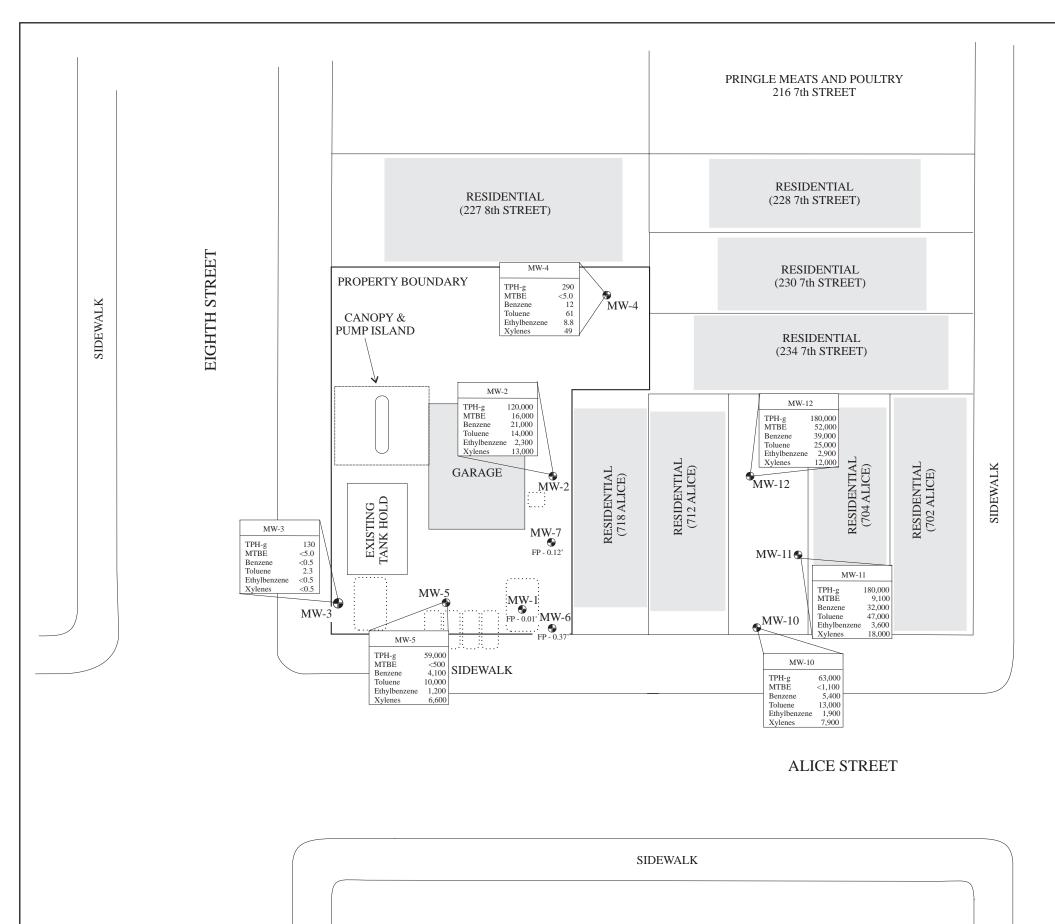
FIGURES





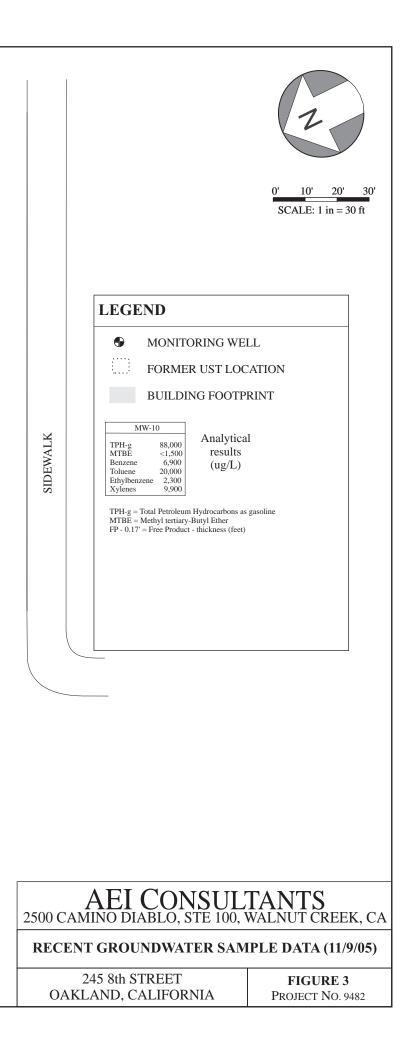
SEVENTH STREET

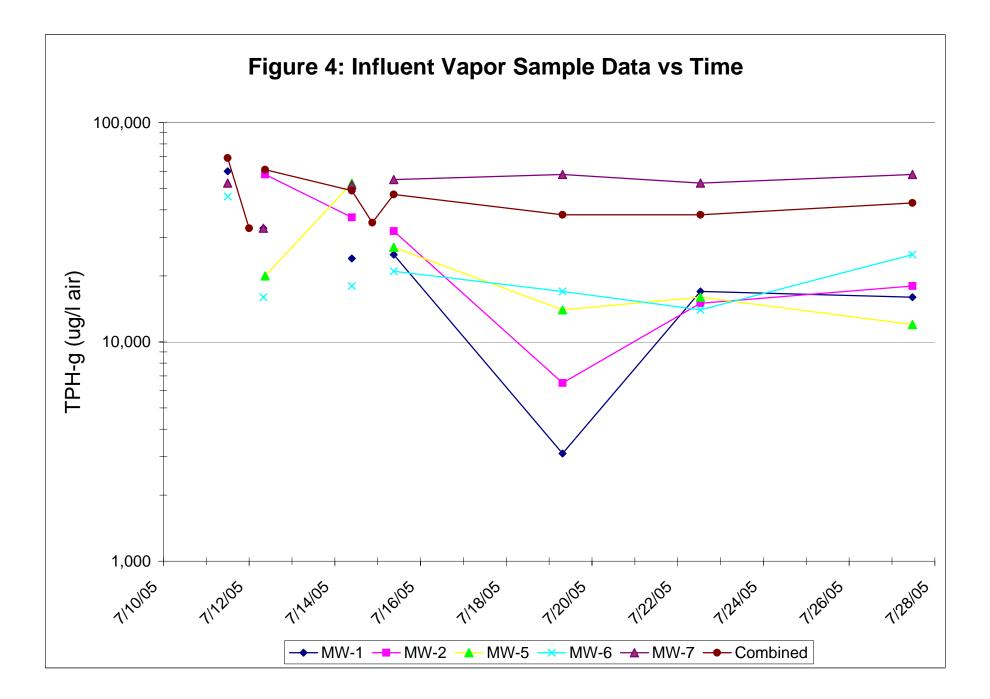




COMMERCIAL AND RESIDENTIAL

SEVENTH STREET





TABLES

Table 1: Groundwater Elevation Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Well ID (screen interval)	Date Collected	TOC Well ^{1,2} Elevation	Depth to Water	Groundwater ³ Elevation	Depth to LNAPL	Apparent LNAPL Thickness
		(ft amsl)	(ft)	(ft amsl)	(ft)	(ft)
MW-1	6/29/2001	27.73	16.52	11.21	14.89	1.63
(8-28)	10/10/2001	27.73	15.45	12.28	15.37	0.08
()	1/9/2002	27.73	12.61	15.12	_	< 0.01
	4/24/2002	27.73	13.35	14.38	-	< 0.01
	7/24/2002	27.73	14.19	13.54	-	< 0.01
	11/5/2002	27.73	14.85	12.88	-	< 0.01
	2/4/2003	27.73	14.91	12.82	-	< 0.01
	5/2/2003	27.73	14.43	13.30	-	0.08
	8/4/2003	27.73	15.24	12.49	15.01	0.23
	11/3/2003	27.73	16.94	10.79	15.67	1.27
	2/9/2004	27.73	14.61	13.12	14.43	0.18
	5/10/2004	27.73	Inaccessible	-	-	-
	8/9/2004	27.73	15.24	12.49	15.03	0.21
	11/9/2004	27.73	15.95	11.78	15.71	0.24
	2/3/2005	32.55	13.75	18.80	13.58	0.17
	5/9/2005	32.55	13.93	18.62	13.81	0.12
	8/5/2005	32.55 32.55	15.40	17.15	15.81 15.39	0.12
	11/9/2005	32.55	15.76	16.79	15.75	0.01
MW-2	6/29/2001	28.16	16.14	12.02	-	-
(8-28)	10/10/2001	28.16	16.43	11.73	-	-
	1/9/2002	28.16	13.50	14.66	-	-
	4/24/2002	28.16	14.40	13.76	-	-
	7/24/2002	28.16	14.91	13.25	-	-
	11/5/2002	28.16	16.96	11.20	-	-
	2/4/2003	28.16	15.42	12.74	-	-
	5/2/2003	28.16	15.24	12.92	-	-
	8/4/2003	28.16	15.98	12.18	-	-
	11/3/2003	28.16	16.60	11.56	-	Sheen
	2/9/2004	28.16	15.22	12.94	-	Sheen
	5/10/2004	28.16	15.34	12.82	-	Sheen
	8/9/2004	28.16	15.92	12.24	-	Sheen
	11/9/2004	28.16	16.51	11.65	-	Sheen
	2/3/2005	33.24	14.44	18.80	-	Sheen
	5/9/2005	33.24	14.67	18.57	-	Sheen
	8/5/2005	33.24	16.27	16.97	-	Sheen
	11/9/2005	33.24	16.53	16.71	-	Sheen
1411/2	C /20 /2001	20.21	16.60	10.61		
MW-3	6/29/2001	29.21 29.21	16.60	12.61	-	-
(10-25)	10/10/2001		16.92	12.29	-	-
	1/9/2002	29.21	14.20	15.01	-	-
	4/24/2002	29.21	15.07	14.14	-	-
	7/24/2002	29.21	16.40	12.81	-	-
	11/5/2002	29.21	16.47	12.74	-	-
	2/4/2003	29.21	16.92	12.29	-	-
	5/2/2003	29.21	15.45	13.76	-	-
	8/4/2003	29.21	16.46	12.75	-	-
	11/3/2003	29.21	17.15	12.06	-	-
	2/9/2004	29.21	15.78	13.43	-	-
	5/10/2004	29.21	15.77	13.44	-	-
	8/9/2004	29.21	16.45	12.76	-	-
	11/9/2004	29.21	17.26	11.95	-	-
	2/3/2005	34.25	15.92	18.33	-	-
	5/9/2005	34.25	15.03	19.22	-	-
	8/5/2005	34.25	16.59	17.66	-	-
	11/9/2005	34.25	16.82	17.43	_	-

Table 1: Groundwater Elevation Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Well ID (screen interval)	Date Collected	TOC Well ^{1,2} Elevation (ft amsl)	Depth to Water (ft)	Groundwater ³ Elevation (ft amsl)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)
MW-4	6/29/2001	29.38	17.71	11.67	_	_
(10-25)	10/10/2001	29.38	18.00	11.38	_	_
(10-23)	1/9/2002	29.38	15.02	14.36	_	
	4/24/2002	29.38	15.74	13.64	-	-
	7/24/2002	29.38	16.69	12.69	_	
	11/5/2002	29.38	17.64	11.74	_	
	2/4/2003	29.38	16.02	13.36	_	
	5/2/2003	29.38	16.72	12.66	-	-
	8/4/2003	29.38	17.51	11.87	-	-
	11/3/2003	29.38	17.31	11.87	-	-
		29.38		12.71	-	-
	2/9/2004		16.67		-	-
	5/10/2004	29.38	16.89	12.49	-	-
	8/9/2004	29.38	17.44	11.94	-	-
	11/9/2004	29.38	17.89	11.49	-	-
	2/3/2005	34.42	14.98	19.44	-	-
	5/9/2005	34.42	16.20	18.22	-	-
	8/5/2005	34.42	17.73	16.69	-	-
	11/9/2005	34.42	17.91	16.51	-	-
MW-5	2/3/2005	33.33	14.23	19.10	-	-
(12-22)	5/9/2005	33.33	14.33	19.00	-	-
	8/5/2005	33.33	15.89	17.44	-	-
	11/9/2005	33.33	16.18	17.15	-	-
MW-6	2/3/2005	32.82	13.99	18.83	-	-
(12-22)	5/9/2005	32.82	13.61	19.21	-	-
	8/5/2005	32.82	15.50	17.32	15.13	0.37
	11/9/2005	32.82	15.87	16.95	15.50	0.37
MW-7	2/3/2005	33.07	14.17	18.90	-	-
(12-22)	5/9/2005	33.07	14.47	18.60	14.44	0.03
	8/5/2005	33.07	16.07	17.00	16.02	0.05
	11/9/2005	33.07	16.47	16.60	16.35	0.12
MW-10	2/3/2005	31.17	12.65	18.52	-	-
(12-22)	5/9/2005	31.17	13.09	18.08	-	-
× /	8/5/2005	31.17	14.68	16.49	-	-
	11/9/2005	31.17	14.94	16.23	-	-
MW-11	2/3/2005	31.78	13.39	18.39	-	-
(12-22)	5/9/2005	31.78	13.89	17.89	-	-
()	8/5/2005	31.78	15.47	16.31	-	-
	11/9/2005	31.78	15.73	16.05	-	-
MW-12	2/3/2005	32.05	13.70	18.35	-	-
(12-22)	5/9/2005	32.05	14.17	17.88	-	-
(12 22)	8/5/2005	32.05	15.69	16.36	-	-
	11/9/2005	32.05	15.93	16.12	-	-

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

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

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

All well elevations are measured from the top of the casing (TOC)

- = not applicable

LNAPL = light non-aqueous phase liquid (floating free product)

ft amsl = feet above mean sea level

Table 2: Groundwater Flow Summary

Episode #	Date	Average Groundwater Elevation ¹ (ft amsl)	Change from Previous Episode (ft)	Flow direction (gradient)
1	6/29/2001	12.10	_	SSE (0.0074)
2	10/10/2001	11.80	-0.30	SSE (0.0071)
3	1/9/2002	14.68	2.88	SE (0.0054)
4	4/24/2002	13.85	-0.83	SSW (0.005)
5	7/24/2002	12.92	-0.93	NE (0.021)
6	11/5/2002	11.89	-1.02	SW (0.019)
7	2/4/2003	12.80	0.90	NNW (0.01)
8	5/2/2003	13.11	0.32	SSE (0.01)
9	8/4/2003	12.27	-0.85	SSE(0.007)
10	11/3/2003	11.64	-0.63	SSE (0.006)
11	2/9/2004	13.03	1.39	SSE (0.006)
12	5/10/2004	12.92	-0.11	SSE (0.008)
13	8/9/2004	12.31	-0.60	SSE (0.006)
14	11/9/2004	11.70	-0.62	SSE (0.004)
15	2/3/2005	18.75	-	W (0.007)
16	5/9/2005	18.53	-0.22	S (0.010)
17	8/5/2005	16.94	-1.59	S (0.010)
18	11/9/2005	16.65	-0.28	S (0.010)

Vic's Automotive, 245 8th Ave., Oakland, CA

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

- = not applicable

ft amsl = feet above mean sea level

Table 3: Groundwater Sample Analytical Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Well/Sample ID	Date Collected	Apparent LNAPL thickness (ft)	-	MTBE	Benzene μg/L	Toluene	Ethylbenzene	Xylenes
ID	Conected	thickness (It)	μg/L EPA Method 8015Cm	μg/L	µg/L	μg/L EPA Method 8021	μ g/L ^B	μg/L
MW-1	6/29/2001	1.63	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	10/10/2001	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	1/9/2002	< 0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	4/24/2002	< 0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	7/24/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/5/2002	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/4/2003	~0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/2/2003	0.08	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/4/2003	0.23	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/3/2003	1.27	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/9/2004	0.18	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/10/2004	Inaccessible	-	-	-	-	-	-
	8/9/2004	0.21	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2004	0.24	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	2/3/2005	0.17	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	5/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/5/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.01	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
MW-2	6/29/2001	0.0	69,000	4100/4400*	7,200	6,100	1,500	7,000
	10/10/2001	0.0	87,000	14,000	22,000	12,000	2,700	9,100
	1/9/2002	0.0	130,000	11,000	30,000	19,000	3,800	14,000
	4/24/2002	Sheen	210,000	32,000	38,000	23,000	4,600	19,000
	7/24/2002	Sheen	170,000	36,000	48,000	12,000	3,700	8,600
	11/5/2002	Sheen	190,000	36,000	45,000	25,000	4,600	16,000
	2/4/2003	Sheen	150,000	27,000	51,000	24,000	4,200	14,000
	5/2/2003	Sheen	150,000	35,000	39,000	11,000	3,800	9,900
	8/4/2003	Sheen	120,000	29,000	32,000	5,000	3,200	7,200
	11/3/2003	Sheen	120,000	24,000	33,000	4,300	3,200	5,400
	2/9/2004	Sheen	130,000	19,000	27,000	7,700	3,100	7,600
	5/10/2004	Sheen	67,000	13,000	20,000	3,000	2,300	4,100
	8/9/2004	Sheen	100,000	22,000	27,000	7,100	2,800	6,600
	11/9/2004	Sheen	100,000	23,000	27,000	6,100	3,000	5,600
	2/3/2005	Sheen	84,000	11,000	23,000	5,000	3,000	5,500
	5/9/2005	Sheen	74,000	14,000	21,000	4,200	2,300	3,300
	7/27/2005	Sheen	9,500	910	1,400	1,000	180	960
	8/5/2005	Sheen	74,000	4,000	8,800	11,000	1,300	7,600
	11/9/2005	Sheen	120,000	16,000	21,000	14,000	2,300	13,000
MW-3	6/29/2001	0.0	550	<5.0	<0.5	3.1	3.2	1.2
	10/10/2001	0.0	470	<5.0	0.77	5.3	3.3	5.9
	1/9/2002	0.0	1,000	<5.0	0.90	7.6	7.8	25
	4/24/2002	0.0	1,500	<5.0	0.64	7.2	12	14
	7/24/2002	0.0	1,200	<5.0	10	17.0	11	25
	11/5/2002	0.0	1,800	<25	33	43.0	18	31
	2/4/2003	0.0	450	<5.0	< 0.5	5.0	< 0.5	0.77
	5/2/2003	0.0	340	<5.0	7.3	10.0	2.5	7.3
	8/4/2003	0.0	170	<5.0	5.8	5.9	1.5	4.9
	11/3/2003	0.0	54	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	2/9/2004	0.0	190	<5.0	<0.5	3.6	< 0.5	< 0.5
	5/10/2004	0.0	280	<5.0	< 0.5	3.4	< 0.5	< 0.5
	8/9/2004	0.0	290	<5.0	<0.5	3.8	< 0.5	< 0.5
	11/9/2004	0.0	220	<5.0	<0.5	4.0	<0.5	< 0.5
	2/3/2005	0.0	160	<5.0	13	30	3.0	21
	5/9/2005	0.0	200	<5.0	<0.5	3.9	<0.5	<0.5
	8/5/2005	0.0	<50	<5.0	<0.5	<0.5	<0.5	<0.5
	11/9/2005	0.0	130	<5.0	<0.5	2.3	<0.5	<0.5
		3 •0	200			210		~~~~

Table 3: Groundwater Sample Analytical Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Well/Sample ID	Date Collected	Apparent LNAPL thickness (ft)	TPH-g μg/L EPA Method 8015Cm	MTBE μg/L	Benzene µg/L	Toluene μg/L EPA Method 8021E	Ethylbenzene µg/L	Xylenes µg/L
MW-4	6/29/2001	0.0	<50	<5.0	< 0.5	< 0.5	<0.5	< 0.5
	10/10/2001	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	1/9/2002	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	4/24/2002	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	7/24/2002	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	11/5/2002	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	2/4/2003	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	5/2/2003	0.0	500	10	68	71	18	65
	8/4/2003	0.0	270	<5.0	30	29	9.2	32
	11/3/2003	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	2/9/2004	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	5/10/2004	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	8/9/2004	0.0	130	<5.0	14	13	5.3	17
	11/9/2004	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	2/3/2005	0.0	370	<5.0	< 0.5	4.1	< 0.5	0.64
	5/9/2005	0.0	840	<5.0	50	180	21	110
	7/27/2005	0.0	<50	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	8/5/2005	0.0	310	<5.0	7.5	57	10	53
	11/9/2005	0.0	290	<5.0	12	61	8.8	49
MW-5	2/3/2005	0.0	78,000	<1,000	7,600	13,000	2,200	9,600
	5/9/2005	0.0	60,000	<900	6,100	9,900	1,600	6,600
	7/27/2005	nm	120,000	1,100	10,000	19,000	2,100	13,000
	8/5/2005	0.0	59,000	<500	4,100	10,000	1,200	6,600
	11/9/2005	0.0	44,000	<500	3,300	7,400	1,100	4,900
MW-6	2/3/2005	Sheen	130,000	<1,000	2,400	33,000	2,400	15,000
	5/9/2005	Sheen	170,000	<4,000	11,000	43,000	3,100	16,000
	8/5/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.37	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
MW-7	2/3/2005	Sheen	220,000	18,000	45,000	44,000	3,500	18,000
	5/9/2005	0.03	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	8/5/2005	0.05	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
	11/9/2005	0.12	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp	ns/fp
MW-10	2/3/2005	0.0	36,000	<500	4,700	7,200	660	3,400
	5/9/2005	0.0	88,000	<1,500	6,900	20,000	2,300	9,900
	8/5/2005	0.0	88,000	<1,100	10,000	21,000	1,900	9,800
	11/9/2005	0.0	63,000	<1,100	5,400	13,000	1,900	7,900
MW-11	2/3/2005	Sheen	170,000	<3,000	23,000	35,000	3,100	16,000
	5/9/2005	Sheen	210,000	3,500	29,000	40,000	3,400	16,000
	7/27/2005	Sheen	220,000	2,500	26,000	37,000	3,200	18,000
	8/5/2005	Sheen	210,000	<2,500	35,000	42,000	3,300	16,000
	11/9/2005	Sheen	180,000	9,100	32,000	47,000	3,600	18,000
MW-12	2/3/2005	Sheen	250,000	100,000	52,000	41,000	3,400	15,000
	5/9/2005	Sheen	210,000	91,000	44,000	28,000	3,300	13,000
	8/5/2005	Sheen	170,000	52,000	38,000	28,000	3,000	12,000
	11/9/2005	Sheen	180,000	52,000	39,000	25,000	2,900	12,000

 $\mu g/L = micrograms per liter (ppb)$

 $MTBE \ = methyl \ tertiary-butyl \ ether$

TPH-g = total petroleum hydrocarbons as gasoline

ns/fp = not sampled / free product

LNAPL = Light Non-Aqueous Phase Liquid

 \ast samples re-analyzed by EPA Method 8260 (expressed as EPA 8020 / EPA 8260)

Please refer to Appendix B: Lab Results for further detailed lab information including dilution factors

Table 4: Soil Sample Analytical Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Sample ID	Date	TPHg	TOG	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	Collected	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-1 (6')	7/14/95	390	-	-	0.280	0.290	0.290	0.620
MW-1 (11')	7/14/95	370	-	_	0.240	0.240	0.230	0.610
MW-2 (6')	7/14/95	ND	24	_	ND	ND	ND	ND
MW-2 (11')	7/14/95	300	38	_	0.300	0.230	0.240	0.630
		200	20		0.000	0.200	0.2.10	0.000
SB-1 (18')	8/18/96	9,100	-	47.0	57	580	190	1,000
SB-1 (24')	8/18/96	30	-	0.20	0.37	1.4	0.52	2.5
SB-2 (24')	8/18/96	1.1	-	0.032	0.11	0.17	0.018	0.099
SB-3 (24')	8/18/96	16	-	4.7	1.6	2.5	0.21	0.95
MW-3 15'	5/25/01	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-3 20'	5/25/01	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-4 15'	5/25/01	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-4 20'	5/25/01	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-4 12'	4/2/03	25	-	ND<0.5	0.41	1.0	0.2	1.3
SB-4 15'	4/2/03	260	-	ND<1.7	3.5	15	4.5	23
SB-5 11'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-6 16'	4/2/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-7 12'	4/2/03	700	-	ND<10	6.0	25	9.3	50
SB-7 18'	4/2/03	4,900	-	ND<25	65	260	77	400
SB-8 17'	4/2/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-9 16'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-10 12'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-11 12'	4/3/03	1.4	-	ND<0.05	0.12	0.10	0.026	0.066
SB-11 16'	4/3/03	2,700	-	ND<30	29	170	49.0	250
SB-12 15'	4/2/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-13 14'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-14 14'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-15 14'	4/3/03	ND<1.0	-	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
MW-5 16'	1/11/2005	100	-	ND<5.0	2.6	6.0	1.5	8.4
MW-5 20'	1/11/2005	37	-	ND<0.50	2.6	5.6	0.91	4.6
MW-7 16'	1/11/2005	19	-	2.9	3.3	3.5	0.4	1.9
MW-7 20.5'	1/11/2005	340	-	ND<5.0	9.6	25	7.0	35
MW-6 20'	1/19/2005	14	-	ND<0.25	0.099	4.1	0.33	1.7
MW-10 15.5'	1/20/2005	840	-	ND<2.0	11	58	16	83
MW-11 15.5'	1/19/2005	3,200	-	ND<10	35	320	85	430
MW-12 15.5'	1/19/2005	13	-	8.5	2.5	2.8	0.22	1.1

ND - not detected

mg/kg - milligrams per kilogram

TPHg - total petroleum hydrocarbons as gasoline

MTBE - methy tertiary butyl ether

TOG - Total Oil and Grease

Table 5: Soil Boring Groundwater Sample Analytical Data

Vic's Automotive, 245 8th Ave., Oakland, CA

Well/Sample	Date	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
ID	Collected	µg/L	μg/L	µg/L	μg/L	µg/L	µg/L
SB-1 W	8/18/96	140,000	480	12,000	30,000	3,900	19,000
SB-2 W	8/18/96	130,000	2,300	15,000	20,000	2,800	15,000
SB-3 W	8/18/96	120,000	27,000	19,000	29,000	1,900	9,500
SB-4 W	4/2/03	310,000	17,000	45,000	65,000	4,500	23,000
SB-5 W	4/3/03	420	ND<5.0	11	3.7	18	1.1
SB-6 W	4/2/03	210	ND<5.0	0.57	4.2	1.1	1.4
SB-7 W	4/2/03	240,000	69,000	42,000	45,000	3,100	16,000
SB-8 W	4/2/03	51	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-9 W	4/3/03	7,300	ND<100	2,100	280	300	140
SB-10 W	4/3/03	210,000	ND<5000	22,000	38,000	3,400	18,000
SB-11 W	4/3/03	200,000	ND<2000	18,000	39,000	3,600	18,000
SB-12 W	4/2/03	ND<50	ND<5.0	ND<0.5	0.85	ND<0.5	0.53
SB-13 W	4/3/03	190	ND<20	ND<0.5	1.1	1.9	1.8
SB-14 W	4/3/03	ND<50	140	ND<0.5	0.95	ND<0.5	1.3
SB-15 W	4/3/03	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5

ND - not detected

 $\mu g/L$ - micrograms per liter

TPHg - total petroleum hydrocarbons as gasoline

MTBE - methyl tertiary butyl ether

BTEX - Benzene, ethylbenzene, toluene, and xylenes

ns/fp - not sampled / free product

Table 6: Groundwater Sample Analytical Data: Fuel Additives

Well/Sample ID	Date Collected	DIPE μg/L	ETBE μg/L	MTBE μg/L	ΤΑΜΕ μg/L	ΤΒΑ μg/L	EDB μg/L	1,2-DCA μg/L
		10	10	10	10	10	10	10
MW-2	7/24/02	ND<1,000	ND<1,000	43,000	ND<1,000	ND<10,000	ND<1,000	ND<1,000
MW-3	7/24/02	ND<0.5	ND<0.5	1.3	ND<0.5	ND<5.0	ND<0.5	ND<0.5
MW-4	7/24/02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5
SB-4 W	4/2/03	ND<500	ND<500	14,000	ND<500	ND<5000	ND<500	ND<500
SB-5 W	4/3/03	ND<5.0	ND<5.0	6.5	ND<5.0	790	ND<5.0	ND<5.0
SB-6 W	4/2/03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5
SB-7 W	4/2/03	ND<1,200	ND>1,200	52,000	ND<1,200	ND<12,000	ND<1,200	ND<1,200
SB-8 W	4/2/03	ND<10	ND<10	480	14	ND<100	ND<10	ND<10
SB-9 W	4/3/03	ND<5.0	ND<5.0	41	ND<5.0	68	ND<5.0	ND<5.0
SB-10 W	4/3/03	ND<50	ND<50	2,800	110	ND<500	ND<50	ND<50
SB-11 W	4/3/03	ND<50	ND<50	74	ND<50	ND<500	ND<50	ND<50
SB-12 W	4/2/03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5
SB-13 W	4/3/03	ND<0.5	ND<0.5	3.7	ND<0.5	ND<5.0	ND<0.5	ND<0.5
SB-14 W	4/3/03	ND<2.5	ND<2.5	180	ND<2.5	ND<25	ND<2.5	ND<2.5
SB-15 W	4/3/03	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5

Vic's Automotive, 245 8th Ave., Oakland, CA

Analysis for fuel additives by EPA Method 8260

 μ g/L - micrograms per liter

ns/fp - not sampled / free product

DIPE - Diisopropyl ether

ETBE - Ethyl tert-butyl ether

MTBE - Methyl tert-butyl ether

TAME - tert-Amyl methyl ether TBA - t-Butyl Alcohol EDB - 1,2-Dibromomethane 1,2-DCA - 1,2-Dichloroethane All by EPA method 8260

Table 7: Extraction Event Vapor Sample Data (TPH-g)

Date & Time	MW-1	MW-2	MW-5	MW-6	MW-7	Combined
7/11/05 12:00	60,000	-	-	46,000	53,000	69,000
7/12/05 0:00	-	-	-	-	-	33,000
7/12/05 8:00	33,000	-	-	16,000	33,000	-
7/12/05 9:00	-	58,000	20,000	-	-	61,000
7/14/05 9:30	24,000	37,000	53,000	18,000	52,000	49,000
7/14/05 21:00	-	-	-	-	-	35,000
7/15/05 9:00	25,000	32,000	27,000	21,000	55,000	47,000
7/19/05 7:30	3,100	6,500	14,000	17,000	58,000	38,000
7/22/05 12:45	17,000	15,000	16,000	14,000	53,000	38,000
7/27/05 11:30	16,000	18,000	12,000	25,000	58,000	43,000

Vic's Automotive, 245 8th Ave., Oakland, CA

All data in micrograms per liter of air (μ g/L)

Refer to anlaytical reports for BTEX & MTBE data

Table 8: Groundwater Sample Analytical Data: General Chemistry

Vic's Automotive, 245 8th Ave., Oakland, CA

Sample ID	Date	Calcium	Iron	Magnesium	Potassium	Sodium	BOD	COD	TOC
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				E200.1			SM5210B	SM5220D	E415.3
MW-3	02/03/05	26,000	2,300	23,000	42000	760	1.5	5	2.1
MW-4	02/03/05	10,000	1,500	11,000	360	1,100	1.5	5	1.3
MW-7	02/03/05	62,000	58,000	60,000	14000	1,100	19	510	210
MW-12	02/03/05	39,000	3,400	37,000	3600	1,100	29	680	220

APPENDIX A

GROUNDWATER DISCHARGE PERMIT DOCUMENTATION



DAVID R. WILLIAMS DRECTOR OF WASTEWATER

CERTIFIED MAIL (Return Receipt Requested) Certified Mail No. 7000 1670 0005 9621 4859

July 8, 2005

Mr. Peter McIntyre AEI Consultants 2500 Camino Diablo, Suite 200 Walnut Creek, CA 94597

Dear Mr. McIntyre:

Re: Wastewater Discharge Permit No. 2251785 1

Enclosed is the Special Discharge Permit (Permit) for Vic's Automotive, 245 8th Street, Oakland, Ca 94607, effective July 11, 2005 to October 10, 2005, for your information and records. Please read the Permit Terms and Conditions and the enclosed Special Discharge Permit Standard Terms and Conditions, April 2005 Edition. As a Permit holder, you are legally responsible for complying with all Permit conditions and requirements.

On July 1, 2005, AEI Consultants agreed to collect a sample of the treated groundwater and have it analyzed, by a State certified laboratory, for benzene, ethylbenzene, toluene, and total xylenes. AEI Consultants is required to submit the analytical results by facsimile (510) 287-0621 to obtain approval to discharge the treated groundwater to the sanitary sewer.

AEI Consultants shall report to the Environmental Services Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of permitted discharge or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Deirdre Mena of the Environmental Services Division at (510) 287-1559.

Sindered

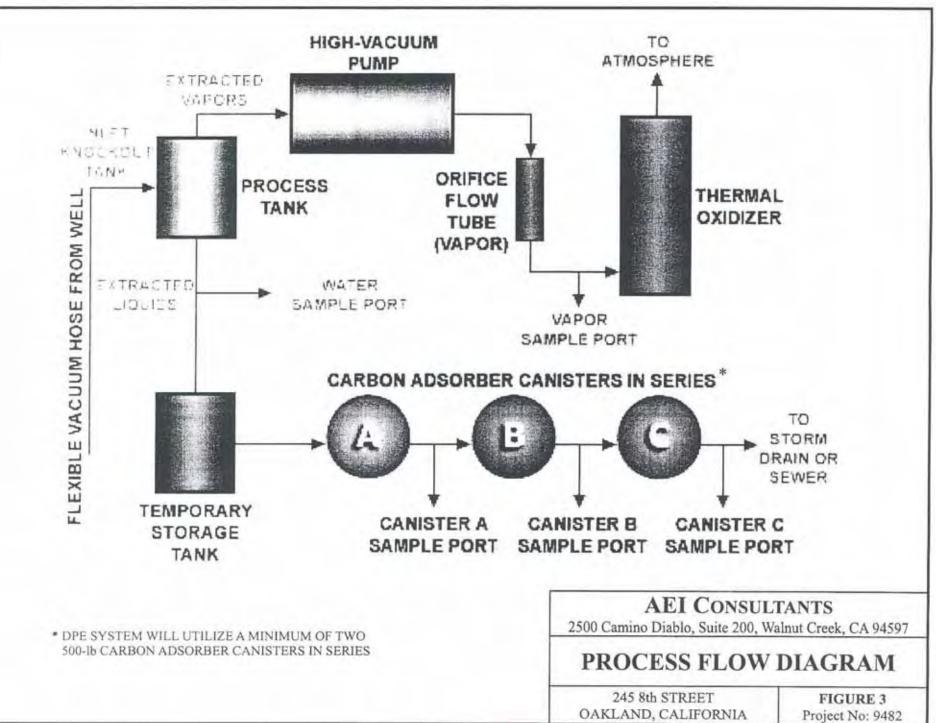
BENNETT K. HORENSTEIN Manager of Environmental Services

W:\NAB\IDS\Permits\Special Discharge\Permits\Vic's Automotive\Permit Cover Letter.doc

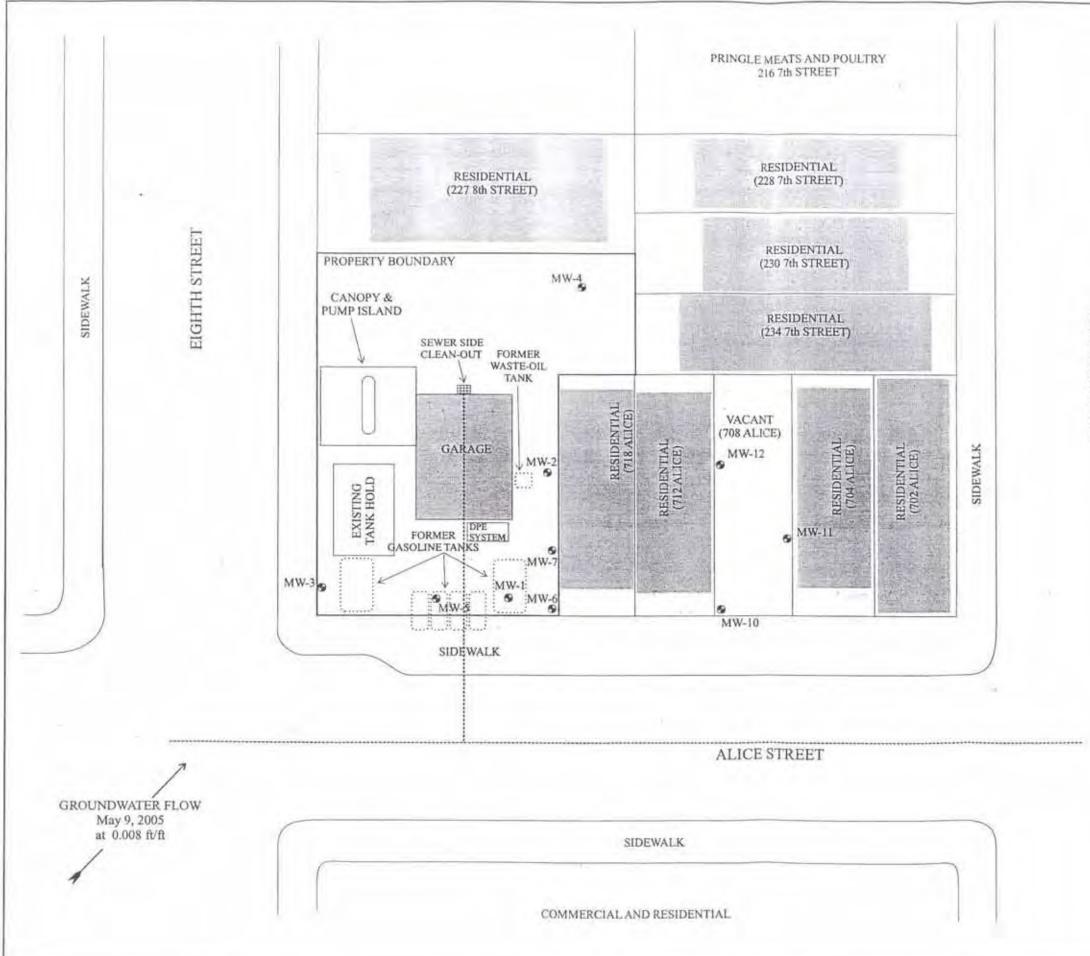
BKH:DMM:dmm

Enclosures P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 287-1405

CIAL DISCHARGE PERMIT **Terms and Conditions** APPLICANT INFORMATION PERMIT NUMBER APPLICANT BUSINESS NAME SIC CODE 5541 motive ADDRESS OF SITE DISCHARGING WASTEWATER APPLICANT MAILING ADDRESS Street Street 8+4 Sth 245 STREET ADDRESS STREET ADDRESS Jakland 94607 Jak lan 94607 ZIP CODE CITY ZIP CODE CONTACT PERSONS APPLICANT Victor Lum 510) 832-9014 Property Owner NAME PHONE NUMBER CONSULTANT (925) 944-2899 Peter McInt Program NAME PHONE NUMBER CONTRACTOR Sheno Noel Cal Clean Inc. Owner 714) 936-2706 NAME PHONE NUMBER CERTIFICATION I understand that issuance of a Special Discharge Permit does not exempt or preclude the facility from being issued a Discharge Minimization or Pollution Prevention Permit. I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Special Discharge Permit. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. 0 NAME SIGNATURE (SEE CERTIFICATION REQUIREMENTS ON REVERSE)



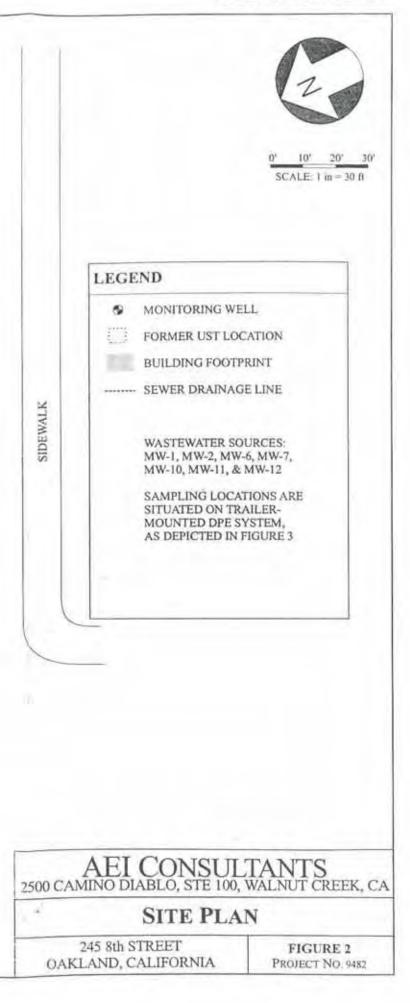
Permit No. 2251785 1



*

SEVENTH STREET

Permit No. 2251785 1





SPECIAL DISCHARGE PERMIT TERMS AND CONDITIONS CRITERIA AND FEES

	PERMIT NUMBER	22517851	CRITERIA AND FEES				
		strates the wastewater meets estab nd supply required information.	lished criteria for a Special Discharge Permit.				
Reaso descr	bing what means were co	nsidered, and why they were not i	e wastewater are unavailable. Provide information implemented. ach more cost effective.				
The w	vastewater is unsuitable fo	or discharge to the storm sewer. P	Provide explanation.				
I The w	astewater meets source c		rvice area. operations generating the wastewater. Include the indard Terms and Conditions, Section A, II.				
/		luring a limited period of time, no.					
Wast	laximum Discharge Durat ewater volume and flow d	tion: <u>15</u> days Start Date: o not cause a capacity problem fo	7-11-05 Hours of Discharge: 24/day				
The s	otal Discharge Volume: ide sewer through which t ttach a site diagram. Sho ewer, and sampling location	w facility location, property lines,	been identified, and approved if required. wastewater source, drainage plumbing, the side				
M Know	m and potential pollutants ttach a summarized list of	s present in the wastewater are cha	ent in the wastewater. Also include the complete				
Treat disch	ment technology or best n arge limits.	nanagement practices have been in	dentified that will result in the wastewater meeting				
1		e complies with Ordinance No. 31	est management practices that will be used to ensure 11 wastewater discharge limits.				
		OR					
	For unmetered sources, including construction dewatering or groundwater, describe pretreatment or best management practices that will be used to ensure pollutant concentrations do not exceed SD-1 annual average influent concentrations,						
	PPE System: St	ripping & activated ca	room (minimum of				
	tw	o (2) 500 - pound ca	rbon (minimum of misters will be utilized.				
p) Attach a schematic flow retreatment system as con	diagram of the pretreatment syste	m. The diagram must accurately depict the diagram is not allowed, unless pretreatment system				
Permit Volatil	application fee - \$650 e Organics Testing - \$127		Oil and Grease Testing - \$62 D pH Testing - \$15				
□ Additio	mal Wastewater Treatmer	nt/Disposal Charges - \$0.05/gallor	n Total: \$				

SPECIAL DISCHARGE PERMIT Terms and Conditions



PERMIT NUMBER 2251785 1

GENERAL CONDITIONS

1. Vic's Automotive shall comply with all items of the attached Special Discharge Permit Standard Terms and Conditions.

- II. Vic's Automotive shall discharge Special Discharge Wastewater only from the specific source described in the Special Discharge Permit Terms & Conditions, Criteria and Fees form. The discharge of all other wastewater must comply with EBMUD Ordinance No. 311A-03.
- III. Vic's Automotive shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.
- IV. Vic's Automotive shall comply with EBMUD Ordinance No. 311A-03, Title I, Section 5, which prohibits the discharge of storm water, drainage water, and groundwater to the community sewer.

 This Special Discharge Permit is considered a waiver of the prohibition.
- V. Vic's Automotive shall comply with EBMUD Ordinance No. 311A-03, Title II, Section 2d, which prohibits discharge of wastewater directly into a manhole or other opening into the community sewer system.
- VI. Vic's Automotive shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

COMPLIANCE REQUIREMENTS

- Vic's Automotive shall pretreat or manage all Special Discharge Wastewater prior to discharge to the side sewer. Pretreatment or management shall be sufficient to achieve compliance with the limits established in this Special Discharge Permit.
- II. Vic's Automotive shall post a sign in the work area stating "All Wastewater Discharge must comply with the Special Discharge Permit."

WASTEWATER DISCHARGE LIMITS

Vic's Automotive shall not discharge Special Discharge Wastewater into the community sewer if the strength of the wastewater exceeds:

- E Benzene = 5 μ g/L; Toluene = 5 μ g/L; Ethylbenzene = 5 μ g/L; Total Xylenes = 5 μ g/L
- EBMUD Ordinance No. 311A-03 Wastewater Discharge Limits

MONITORING REQUIREMENTS

Vic's Automotive shall monitor wastewater discharge operations to ensure compliance with the terms and conditions of this Special Discharge Permit. Monitoring may include sampling and analysis of the discharge. The sampling location shall be as shown on the site diagram.

INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. Vic's Automotive shall grant District personnel access to the facility to conduct inspections and collect Special Discharge Wastewater samples.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit and Special Discharge Permit Standard Terms and Conditions may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to \$5,000 per day.

RATES AND CHARGES

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit.

AUTHORIZATION

Special Discharge Permit Holder is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with EBMUD Ordinance No 311A-03, Special Discharge Permit Terms and Conditions, and billing conditions.

7/11/2005 Effective:

Expiration:

10/10/2005

Director, Wastewater Department



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INTRODUCTION

This document contains criteria, general stipulations, reporting requirements, and sampling requirements pertaining to Special Discharge Permits issued by the District. Special Discharge Permits are issued pursuant to EBMUD Ordinance No. 311A-03 (Ordinance No. 311A-03) and may waive certain Ordinance No. 311A-03 requirements or prohibitions.

Issuance of a Special Discharge Permit is subject to preliminary, source, and administrative criteria described in Section A of this document. Special Discharge Permit Standard Terms and Conditions are enforceable terms and conditions of Special Discharge Permits.

Special Discharge Permits may include rates and charges for discharge volume, wastewater strength, system capacity, and monitoring. These rates are established by EBMUD resolution.

SECTION A. SPECIAL DISCHARGE CRITERIA

The District established the following three sets of criteria under the Special Discharge Permit Program. Wastewater proposed for discharge must meet Preliminary, Source, and Administrative Criteria prior to the issuance of a Special Discharge Permit.

- I. Preliminary Criteria
 - a) Reasonable and cost effective means of recycling and reuse of the wastewater are *unavailable*. The applicant shall investigate and document alternatives for wastewater recycling and reuse.
 - b) *Wastewater is not suitable for discharge to the storm sewer*. The applicant shall provide documentation regarding alternative disposal methods.
 - c) Wastewater is generated within the EBMUD SD-1 wastewater service area. The applicant shall determine if the location is within the service area.
 - d) The side sewer through which the wastewater is discharged has been identified. Upon District approval of the discharge location, the applicant may be required to provide documentation demonstrating that the applicable public agency authorized its use.
 - e) *Known and potential pollutants present in the wastewater are characterized.* The applicant shall submit both a complete certified laboratory analytical report, and a summary of the results.
 - f) Treatment technology or Best Management Practices (BMPs) have been identified which will result in achieving compliance with the wastewater discharge limits. Depending on the source of the wastewater, the applicant may be required to demonstrate that pollutant concentrations will not exceed Ordinance No. 311A-03 Wastewater Discharge Limits. Any treatment employed must be a proven and conventional technology.



II. Source Criteria

The following describes the source criteria for Special Discharge Wastewater requiring special regulation (Ordinance No. 311A-03, Title IV, Section I, a, 4 and 5).

- Boiler and/or Cooling Tower Maintenance Wastewater generated by nonroutine system flushing or discharge of spent boiler/cooling water.
- b) Construction Dewatering (Short Term Discharge) Groundwater or stormwater generated from trenching or excavation operations.
- c) Infrastructure Maintenance Any wastewater generated by nonroutine cleaning or maintenance activities. This may include wastewater generated during line flushing and equipment cleaning.
- Monitoring Well Groundwater Groundwater collected from monitoring wells for the purpose of characterization, study, or review. Discharge volume not to exceed 550 gallons.
- Nonroutine Tank Cleaning Wastewater originating from cleaning or descaling of product, process, or waste storage tanks. Discharge volume not to exceed 1,000 gallons.
- Other Sources Wastewater generated from other temporary sources may require a Special Discharge Permit.
- g) Sewage Spill Wastewater generated from the clean up of any uncontrolled sewage spill. This may include collected raw sewage from a sewer line backup and/or clean-up water posing a potential environmental/public health concern.
- h) Spill An accidental discharge of a substance that may pose an environmental or public health concern.
- Spill Cleanup Wastewater generated from the clean up of spilled product or process wastes (excluding sewage) at a facility not otherwise required to have a wastewater discharge permit.
- j) Sump Discharge/Flooded Basement Wastewater generated during a single event and collected into sumps, basements, and loading docks, etc. not connected to the sanitary sewer.
- k) Surface Cleaning Any wastewater generated from flat surface cleaning activities that is not suitable for discharge to the storm sewer and is not regulated by other wastewater controls.
- Treated Bilge Water Wastewater collected in the bilge of a ship that has subsequently been treated for pollutants that may be present.



III. Administrative Criteria

Ordinance No. 311A-03 applies to all discharges within SD-1 Service Area. Unless specifically waived by the Special Discharge Permit, the following wastewater criteria apply. Waivers of Ordinance No. 311A-03 are granted by the authority of Ordinance No. 311, Title I, Section 6.

- a) The wastewater must not contain storm water, drainage water, or groundwater (Ordinance No. 311A-03, Title I, Section 5). Special Discharge Permits issued for Construction Dewatering, Sump Discharge/Flooded Basement, and Monitoring Well Groundwater may waive this prohibition.
- b) The wastewater must not originate from an unpolluted source (Ordinance No. 311A-03, Title II, Section 2, c). Wastewater that meets requirements for discharge to storm sewers or receiving waters of the State will not be considered for a Special Discharge Permit.
- c) The wastewater must be discharged through a side sewer (Ordinance No. 311A-03, Title II, Section 2, d). The discharge of wastewater directly into a manhole or other opening in the community sewer system is prohibited, except for sewer construction and maintenance by public agencies. Special Discharge Permits may authorize direct discharge into a manhole or other opening if alternative means of discharge are unavailable.
- d) The wastewater does not pose significant concerns under this Special Discharge Permit Program. The District will determine if the wastewater poses a significant concern based on the information provided in the Special Discharge Permit Application.

SECTION B. GENERAL PROVISIONS

I. Duty to Comply

Special Discharge Permit Holders shall comply with Ordinance No. 311A-03, Special Discharge Permit Terms and Conditions, and this document.

II. Terms and Conditions of Special Discharge Permit

A Special Discharge Permit is issued for discharges only from the location and specific wastewater source described therein. Applications for a Special Discharge Permit shall be submitted to EBMUD a minimum of ten working days prior to the date of the discharge. No discharge shall proceed prior to issuance of the Special Discharge Permit, completion of any required site inspections, and approval by EBMUD staff. Issuance of a Special Discharge Permit does not exempt or preclude a facility from being issued an EBMUD Discharge Minimization or Pollution Prevention Permit.



III. Disposal of Hazardous Waste

The Special Discharge Permit Holder shall handle and dispose of hazardous waste in accordance with all local, state, and federal laws and regulations.

IV. Dilution Prohibition

The Special Discharge Permit Holder shall not in any way dilute the wastewater discharge as a substitute for treatment to achieve compliance with the Special Discharge Permit Terms and Conditions.

V. Bypass of Treatment Facilities

The Special Discharge Permit Holder shall not bypass treatment facilities unless:

- a) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage. (Severe property damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production).
- b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass that occurred during normal periods of equipment downtime or preventative maintenance.
- c) The Special Discharge Permit Holder submitted advance notice of the need for a bypass to the District. If the Special Discharge Permit Holder knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.

The Special Discharge Permit Holder shall notify the District of an unanticipated bypass within 24 hours. The Special Discharge Permit Holder shall also submit a written report explaining the circumstances of the bypass.

VI. Calibration and Maintenance of Equipment

The Special Discharge Permit Holder shall calibrate, inspect, and maintain all flow measuring, discharge sampling, monitoring, and pretreatment equipment to ensure the equipment accuracy and reliability.

VII. Availability of Special Discharge Permit

A copy of the Special Discharge Permit shall be maintained by the Special Discharge Permit Holder and be available to both facility and EBMUD staff at all times.



VIII. Payment of Special Discharge Permit Fees and Charges

The applicant shall pay all Special Discharge Permit fees, monitoring and testing charges, and wastewater treatment/disposal charges.

The Special Discharge Permit Fee of \$650 includes wastewater treatment/disposal charges and District inspections. Additional wastewater treatment/disposal charges may apply depending on the source of the wastewater. Laboratory fees may also apply, depending on the source of the wastewater, e.g., groundwater.

IX. Special Discharge Permit Termination

The District may terminate the Special Discharge Permit for violation of the Special Discharge Permit Terms and Conditions or for violation of Ordinance No. 311A-03 provisions.

X. Transfer of Special Discharge Permit Prohibition

The Special Discharge Permit Holder shall not assign or transfer the Special Discharge Permit.

XI. Severability

If any provision of the Special Discharge Permit, Ordinance No. 311A-03, or the application thereof to any person or circumstance, is held invalid, the remainder of the Special Discharge Permit or Ordinance No. 311A-03, or the application of such provision to other persons or circumstances, shall not be affected thereby.

XII. Property Rights

The issuance of the Special Discharge Permit does not convey to the Special Discharge Permit Holder any property rights of any sort or any exclusive privileges. Nor does such issuance authorize any injury to private property, any invasion of property rights, or any violation of federal, state or local laws.

SECTION C. REPORTING AND RECORD KEEPING

I. Spill or Slug Discharge Notification

Immediately upon discovering any spill or slug discharge to the sanitary sewer, the Special Discharge Permit Holder shall notify EBMUD Source Control Division at (510) 287-1651 during business hours or (510) 287-1458 during non-business hours.

The Special Discharge Permit Holder shall submit to the District within five days of the occurrence a formal written notification describing:

- a) circumstances of the discharge
- b) what was discharged
- c) volume of the discharge
- d) duration of the discharge including beginning and end times, and dates



- e) corrective actions to prevent recurrence
- f) if discharge violates the terms and conditions of the Special Discharge Permit

II. Twenty-Four Hour Violation Reporting

- a) The Special Discharge Permit Holder shall notify the District within 24 hours of becoming aware of any of the following violations:
 - discharges prohibited by Ordinance No. 311A-03, Title II, except where authorized by the Special Discharge Permit
 - exceedence of wastewater discharge limits as established in the Special Discharge Permit
 - 3. failure to perform any BMPs included in the Special Discharge Permit
 - 4. bypass of any part of a required pretreatment system
- b) The Special Discharge Permit Holder shall submit a written report to the District within five days after becoming aware of the violation. The report shall include the following information:
 - description of the violation, including the cause, date and time of the violation
 - 2. date and time the discharge was stopped
 - 3. measures taken to correct the violation
 - 4. measures taken to prevent future violations

Prior to receiving District authorization to resume discharge, the Special Discharge Permit Holder may be required to demonstrate compliance with the Special Discharge Permit Terms and Conditions.

III. Changes in Quantity and Quality of Wastewater

The Special Discharge Permit Holder shall immediately report to the District any significant change to the quality or volume of the wastewater discharge or any deviation from the terms and conditions of the Special Discharge Permit.

IV. Hazardous Waste Notification

The Special Discharge Permit Holder shall submit to the District a written notification in accordance with 40 CFR 403.12(p) of any discharge, which, if otherwise disposed of, would be a hazardous waste under 40 CFR 261.

V. Signatory Requirements

The Permit Holder shall submit in accordance with the signatory requirements of 40 CFR 403.12 (I) all applications, self-monitoring reports, violation response reports, compliance reports, and other reports or documents required by the District. The submittal shall include the following certification statement and shall be signed by the duly authorized representative:



"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

VI. <u>Retention of Records</u>

- a) The Special Discharge Permit Holder shall retain all of the following documents:
 - 1. all records used to complete the Special Discharge Permit Application
 - 2. copies of reports required by the Special Discharge Permit
 - 3. all records of monitoring information, including calibration and maintenance records, and original strip chart recordings of continuous monitoring instrumentation
- b) The Special Discharge Permit Holder shall retain all reports and records for a period of at least three years from the date of the application, report, or monitoring event. The District may extend the document retention period. The Special Discharge Permit Holder shall provide all retained records and documents when requested by the District.
- c) The Special Discharge Permit Holder shall retain and preserve all records pertaining to special orders or any other enforcement or litigation activities brought by the District until all enforcement activities have concluded and all periods of limitation with respect to any appeals have expired.

SECTION D. MONITORING AND SAMPLING

I. <u>Representative Sampling</u>

Samples and measurements taken, as required in the Special Discharge Permit or those submitted with the application, shall be representative of the volume and nature of the monitored discharge. The Special Discharge Permit may require that a sample be representative of certain discharge periods.

Analytical method detection limits shall be sufficient to determine compliance with the Special Discharge Permit Terms and Conditions.

II. Chain of Custody

- a) The Special Discharge Permit Holder shall submit a Chain of Custody Record that documents the following for each sample:
 - 1. sampling location and facility name
 - 2. type of sample, i.e., grab or composite



- 3. date, time or span of time the sample was collected
- 4. number of containers and type, e.g., glass, plastic, vial, etc.
- 5. preservation techniques, e.g., ice, refrigeration at 4°C, chemicals added, etc.
- 6. sample collector's name legibly written
- sample identification number that corresponds to the sample identification number on the analytical report
- printed name and signature of all persons handling the sample, and date and time the sample was relinquished and accepted
- b) The Special Discharge Permit Holder shall ensure that a sample transported or handled by a courier, delivery service (public or private) or shipper, shall include the company or individual's name and the method of packaging the sample, on the Chain of Custody Record.
- c) The Special Discharge Permit Holder shall show all sample analyses performed in the field on the Chain of Custody Record, e.g. pH - field test.
- d) The District may require resampling of the wastewater if an incomplete or incorrect Chain of Custody Record is submitted.
- III. Sample Preservation and Analytical Methods

Unless the Special Discharge Permit requires otherwise, the Special Discharge Permit Holder shall use sampling methods, sample preservation, and analytical methods for each parameter in accordance with applicable sections of:

- a) EBMUD Table of Approved Test Methods
- b) Standard Methods of Water and Wastewater Analysis, edition used in the EBMUD Table of Approved Test Methods
- c) EPA 40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, latest edition
- IV. Laboratory Report

The Special Discharge Permit requires that each sample analysis be performed by a laboratory certified by the State Department of Health Services for that analysis. The laboratory report for each sample shall include:

- a) name and address of the laboratory performing the analyses
- b) sample identification number that corresponds to the sample identification number on the Chain of Custody Record
- c) analytical result(s)
- d) date of sampling, the date the sample was received at the laboratory, and the date of analysis



- e) Standard Methods of Water and Wastewater Analysis method or EPA method used for analysis
- f) method detection limit
- g) signature and title of an authorized representative of the laboratory, who reviewed the laboratory results
- V. Flow Measurements

The Special Discharge Permit Holder shall use appropriate flow measurement devices and methods when required by the District. Flow measurement devices and methods are subject to approval by the District.

VI. Tampering with Equipment

The Special Discharge Permit Holder shall not tamper with monitoring equipment or pretreatment units.

VII. Access to Facilities

The District may inspect a facility to determine compliance with the Special Discharge Permit Terms and Conditions and Ordinance No. 311A-03. The Special Discharge Permit Holder shall provide access for this purpose.

SECTION E. ENFORCEMENT AND PENALTIES

I. Violations of Special Discharge Permit Terms and Conditions

The Special Discharge Permit Holder shall be subject to District actions for failure to comply with the terms and conditions of the Special Discharge Permit. The actions may include violation follow-up inspections and fees, issuance of Cease and Desist Orders, Administrative Civil Liability penalties, and other actions as authorized by Ordinance No. 311A-03, Title VI.

SECTION F. DEFINITIONS

BMPs – Best Management Practices (also known as Pollution Prevention Practices) are guidelines and procedures that include maintenance procedures, management practices and prohibition of practices that focus on the reduction or elimination of pollutants or wastes at the source.

Bypass - A bypass is a diversion of wastestreams from any portion of a pretreatment unit.

Chain of Custody – A Chain of Custody is a legal record of each person who had possession of a sample. A Chain of Custody record must be included with an analytical report.

Director – Director refers to the term "Manager", as defined in EBMUD Ordinance No. 311A-03, the Director of the District's Wastewater Department, or his/her designated representative.



Discharge Minimization Permit – A Discharge Minimization Permit is a permit regulating wastewater discharge to the sanitary sewer. Discharge Minimization Permits generally include monitoring and reporting requirements and District inspections.

District – District refers to East Bay Municipal Utility District (EBMUD). EBMUD is a publicly owned water district formed in 1923 under the Municipal Utility District Act of 1921.

EBMUD Ordinance No. 311A-03 – EBMUD Ordinance No. 311A-03 is the EBMUD ordinance that regulates the interception, treatment and disposal of wastewater and industrial wastes.

Hazardous Waste – Hazardous Wastes are listed and characterized under Section 3001 of the Resource Conservation and Recovery Act, as described in the Code of Federal Regulations (40 CFR Part 261) or as defined in California Health and Safety Code Section 25117.

Pollution Prevention Permits – Pollution Prevention Permits are permits issued to businesses in specific commercial categories. Pollution Prevention Permits are based on pollution prevention or waste minimization at sources, and the implementation of specific BMPs.

POTW - POTW refers to Publicly Owned Treatment Works, e.g., EBMUD SD-1

Pretreatment Program – A Pretreatment Program is administered by a POTW that meets the criteria established in EPA 40 CFR Part 403.8, 403.9 and 403.11.

Prohibition – Prohibition refers to prohibited discharges of wastewater as defined in EPA 40 CFR Part 403.5 or EBMUD Ordinance No. 311A-03, Title I, Section 5, and Title II, Section 2.

Regional Water Quality Control Board – The California Regional Water Quality Control Board, San Francisco Bay Region, is the approval authority for the District's Pretreatment Program.

Sample - Sample refers to a portion of wastewater that is representative of a larger volume of wastewater being discharged. The two types of samples are:

- a) Grab an individual sample collected in a short period of time not exceeding fifteen minutes
- b) Composite a sample consisting of a number of discrete aliquots combined into a single sample, representative of a period of time

SD-1 – SD-1 refers to EBMUD Special District No. 1, a district established to provide treatment of wastewater from the following East Bay Communities: Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont, and the Stege Sanitary District that includes the City of El Cerrito, the Richmond Annex, and the Kensington area. [Ref. MUD Act, Division 6, Chapter 8, Section 13451].



Short Term Discharge – Short Term Discharge refers to a wastewater discharge not exceeding 90 days.

Slug Discharge – Slug Discharge is any non-routine batch discharge that may cause problems to the POTW including interference [40 CFR 403.3(i)] or pass-through [40 CFR 403.3(n)], or that may result in the Special Discharge Permit Holder violating the General Prohibitions or Specific Prohibitions contained in 40 CFR 403.5.

Special Discharge Permit – A Special Discharge Permit is a mandatory permit issued for short term or unique discharges determined by the Director to require special regulations or source control (Ordinance No. 311A-03, Title IV, Section 1a.).

Special Discharge Permit Holder – A Special Discharge Permit Holder is any individual, partnership, firm, association, corporation, or public agency issued a Special Discharge Permit.

Special Discharge Wastewater – Special Discharge Wastewater is wastewater described under Section A. Special Discharge Criteria, Paragraph II. Source Criteria.

Spill – A spill is an accidental discharge of a substance that may pose an environmental, public health, or wastewater quality concern.

Wastewater Discharge Limit – A wastewater discharge limit is the maximum concentration of a pollutant allowed to be discharged at any time, as determined from the analysis of a grab or composite sample.

w:\ids\permits\special discharge\special discharge permit standard terms and conditions.doc



ALL WASTEWATER DISCHARGED MUST COMPLY WITH THE SPECIAL DISCHARGE PERMIT

PREVENT POLLUTION Help Us Keep the Bay Clean

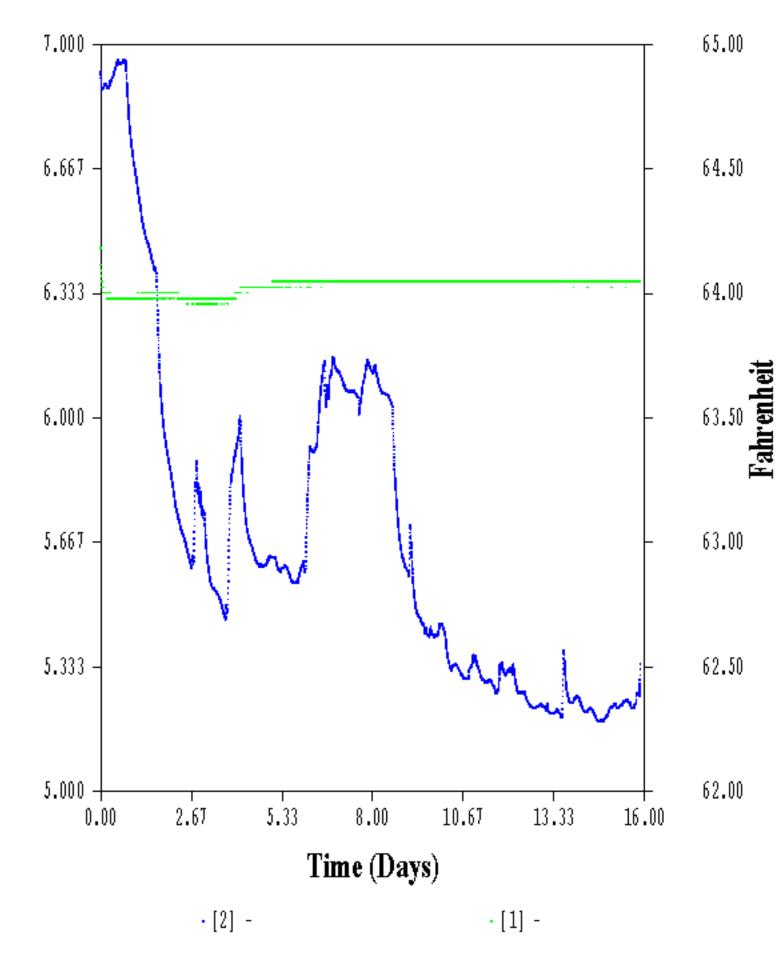
In Case of Spill call 287-1458



APPENDIX B

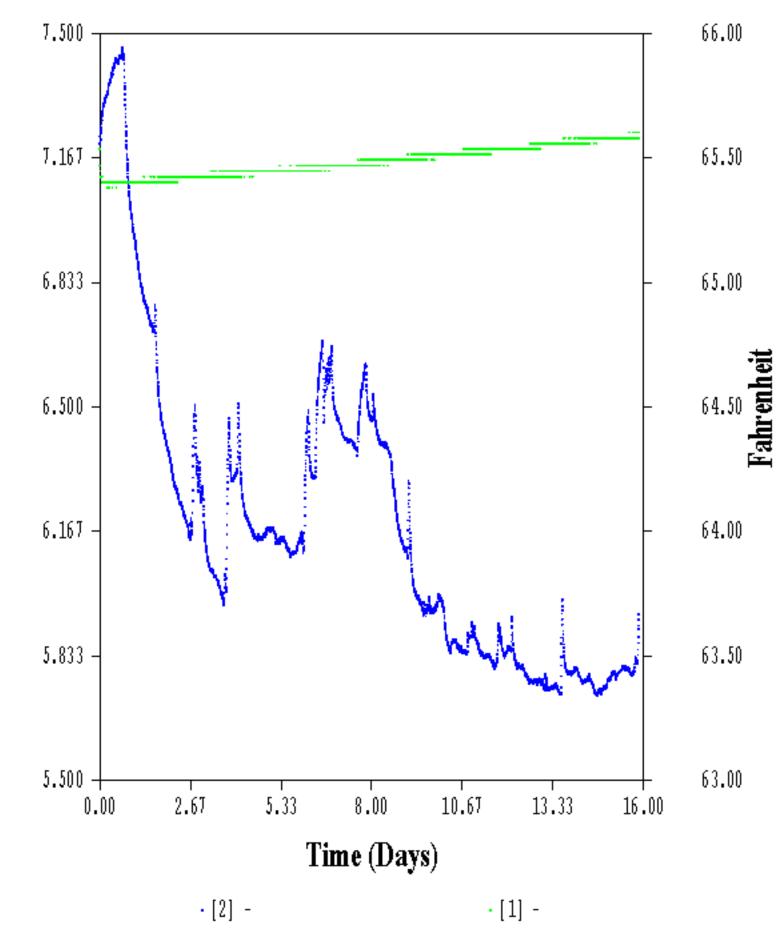
OBSERVATION WELL DRAWDOWN DATA PLOTS

MW-4

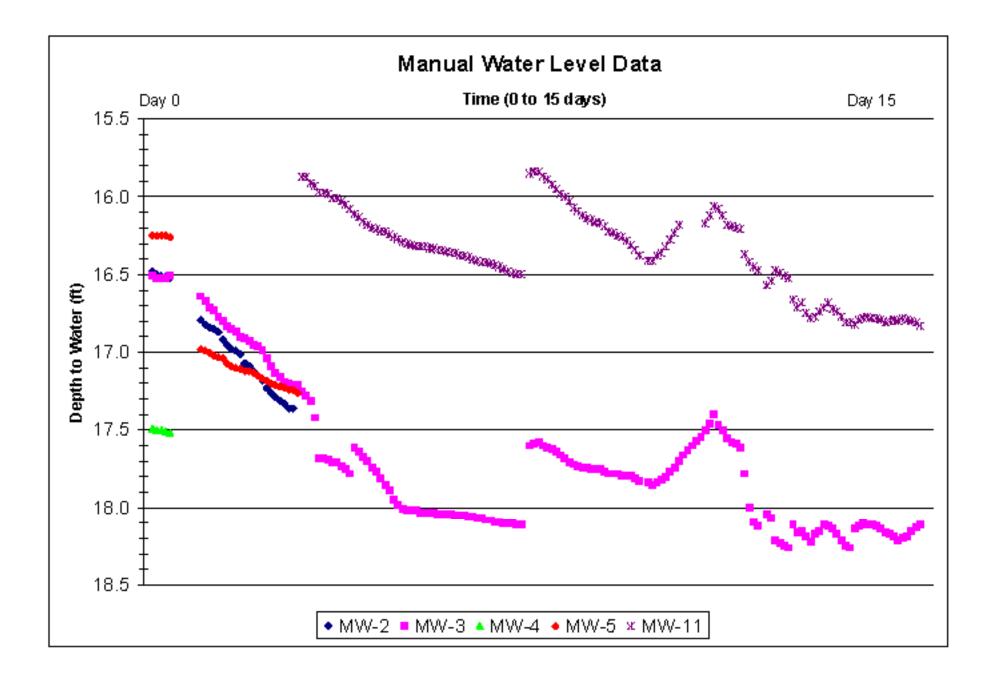


Feet H2O

MW-10



Feet H2O



APPENDIX C

CALCLEAN DATA REPORT

"A Partner in Protecting California's Waters"

August 10, 2005

AEI Consultants, Inc. 2500 Camino Diablo, Suite 200 Walnut Creek, CA 94597-3940

- ATTN: MR. PETER MeINTYRE
- SITE: VIC'S AUTOMOTIVE 245 8TH STREET OAKLAND, CALIFORNIA

RE: HIGH VACUUM DUAL PHASE VACUUM EXTRACTION AND TREATMENT REPORT

Dear Mr. McIntyre:

CalClean Inc. is submitting this remedial action report for the High Vacuum Dual Phase Vacuum Extraction and Treatment at the above referenced site. This report includes all activities performed during the dates of July 11-27, 2005.

From July 11-27, 2005, CalClean performed a 16-day high vacuum dual phase vacuum extraction and treatment event (24-hours per day) on several wells onsite using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted propane-fired thermal oxidizer (Plant#12568). This technology allows hydrocarbons to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone. A high vacuum was applied for vapor extraction and drawdown of the groundwater table around the extraction wells, while vacuum and vapor flow rates were modified to optimize recovery of vapor, free-product and dissolved-phase hydrocarbons.

Vapor samples were collected in Tedlar bags from each extraction well when first connected, during the pilot testing, and then again at the end of the event. Combined influent samples were also collected during the event. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 1, indicate the following:

 The starting Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations for wells MW-1, MW-2, MW-5, MW-6 and MW-7 were 16,980 ppmv, 16,414 ppmv, 5,660 ppmv, 13,018 ppmv, and 14,999 ppmv, respectively. The ending TPH-G vapor concentrations were 4,528 ppmv, 5,094 ppmv, 3,396 ppmv, 7,075 ppmv, and 16,414 ppmv, respectively.

- The starting Benzene vapor concentrations for wells MW-1, MW-2, MW-5, MW-6 and MW-7 were 532 ppmv, 344 ppmv, 225 ppmv, 438 ppmv, and 470 ppmv, respectively. The ending Benzene vapor concentrations were 113 ppmv, 166 ppmv, 85 ppmv, 128 ppmv, and 407 ppmv, respectively
- The starting and ending Methyl tert-Butyl Ether (MtBE) vapor concentrations for wells MW-1, MW-2, MW-5, MW-6 and MW-7 were Non Detect above the laboratory detection limits.

The total equivalent amount of hydrocarbons recovered through vapor extraction during the 16-day event was 10,719.08 pounds (based on laboratory data), and 10,531.48 pounds (based on the Horiba field organic vapor analyzer data) with an average of 10,625.28 pounds. The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 3. These results indicate that dual phase vacuum extraction using a mobile high-vacuum system is acting as an effective remedial technology at this site in removing Total Petroleum Hydrocarbons as Gasoline and BTEX constituent concentrations in the vadose and saturated zone.

The total volume of hydrocarbon-affected groundwater recovered from the extraction wells was approximately **80,740 gallons**. The extracted water was treated through CalClean's primary treatment system within the dual phase extraction system and then polished in activated earbon canisters before discharge to the onsite sewer system in accordance with Permit Number 22517851 obtained from the hast Bay Municipal Utility District.

Groundwater samples were collected several hours after the HVDPE event had concluded. The laboratory results, listed in Table 4 and laboratory reports included in Attachment 1, indicate the following:

- The Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations for wells MW-1, MW-2, MW-4 and MW-5 were 220,000 ug/L, 9,500 ug/L, ND<50 ug/L, and 120,000 ug/L, respectively
- The Benzene vapor concentrations for wells MW-1, MW-2, MW-4 and MW-5 were 26,000 ug/L, 1,400 ug/L, ND<0.5 ug/L, and 10,000 ug/L, respectively
- The Methyl tert-Butyl Ether (MtBE) vapor concentrations for wells MW-1, MW-2, MW-4 and MW-5 were 2,500 ug/L, 910 ug/L, ND<5 ug/L, and 1,100 ug/L, respectively

The following attachments are included to document the HVDPE event at the site:

Table 1	Results of Laboratory Analysis of Influent Vapor Samples
Table 2	High Vacuum Dual Phase Extraction Spreadsheet (using Lab Data)
Figure 1	Total Inlet HC Concentrations versus Time (16-Days, Using Lab Data)
Figure 2	Cumulative HC Recovered over 16 Days (using Lab Data)
Table 3	High Vacuum Dual Phase Extraction Data Spreadsheet (using Horiba Data)
Figure 3	Total Inlet HC Concentrations versus Time (16-Days, Using Horiba Data)
Figure 4	Cumulative HC Recovered over 16 Days (using Horiba Data)
Table 4	Results of Laboratory Analysis of Groundwater Samples
Attachment 1	Laboratory Reports
Attachment 2	High Vacuum Dual Phase Extraction Field Data Sheets

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely,

CALCLEAN INC.

pelsbering

Noel Shenoi Principal Engineer

Attachments

Table 1

RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Vic's Automotive Oakland, California

Sample ID/ Date	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
MW-1	7/11/2005 1210	16,980	532	398	69	276	ND<157
MW-1	7/13/2005 0810	9,339	257	265	32	120	ND<81
MW-1	7/14/2005 0910	6,792	191	262	30	113	ND<49
MW-1	7/15/2005 0905	7,075	207	318	46	168	ND<81
MW-1	7/19/2005 0723	877	12	64	19	87	ND<5
MW-1	7/22/2005 1245	4,811	147	244	23	106	ND<27
MW-1	7/27/2005 1125	4,528	113	265	32	131	ND-<41
MW-2	7/13/2005 0910	16,414	344	530	41	168	ND<81
MW-2	7/14/2005 0920	10,471	294	345	30	127	ND<108
MW-2	7/15/2005 0910	9,056	288	371	28	108	ND<162
MW-2	7/19/2005 0725	1,840	72	122	15	64	ND~14
MW-2	7/22/2005 1250	4.245	182	262	20	87	ND<27
MW-2	7/27/2005 1130	5,094	166	318	28	110	ND<49

(Contd.)

Table 1

RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Vic's Automotive Oakland, California

Sample ID/ Date	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
MW-5	7/13/2005 0900	5,660	225	164	15	65	ND-31
MW-5	7/14/2005 0930	14,999	288	636	64	253	ND<41
MW-5	7/15/2005 0915	7,641	163	451	62	225	ND<41
MW-5	7/19/2005 0730	3,962	78	199	32	145	ND<14
MW-5	7/22/2005 1255	4,528	119	262	44	212	ND<14
MW-5	7/27/2005 1137	3,396	85	207	30	127	ND<14
MW-6	7/11/2005 1220	13,018	438	451	35	147	ND<162
MW-6	7/13/2005 0800	4,528	91	164	14	62	ND<41
MW-6	7/14/2005 0940	5,094	119	265	32	143	ND<30
MW-6	7/15/2005 0920	5,943	122	292	35	136	ND<57
MW-6	7/19/2005 0735	4,811	100	231	25	115	ND<27
MW-8	7/22/2005 1255	3,962	94	231	32	138	ND<36
MW/-6	7/27/2005 1140	7,075	128	477	69	276	ND<41

(Contd.)

Table 1

RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Vic's Automotive Oakland, California

Sample ID/ Date	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
MW-7	7/11/2005 1230	14,999	470	504	39	152	ND<189
MW-7	7/13/2005 0820	9,339	275	265	22	83	ND<95
MW-7	7/14/2005 0950	14,716	407	424	35	145	ND<136
MW-7	7/15/2005 0925	15,565	438	504	39	143	ND<14
MW-7	7/19/2005 0740	16,414	438	530	44	184	ND<135
MW-7	7/22/2005 1300	14,999	438	716	74	276	ND<216
MW-7	7/27/2005 1145	16,414	407	636	71	276	ND<243
COMBINED	7/11/2005 1200	19,527	595	530	62	230	ND<216
COMBINED	7/12/2005 2400	9,339	285	231	19	69	ND<108
COMBINED	7/13/2005 0830	48	1	2	1	4	ND<0.7
COMBINED	7/13/2005 0920	17,263	43B	451	39	147	ND<162
COMBINED	7/14/2005 0900	13,867	376	424	*30	113	ND<108
COMBINED	7/14/2005 2100	9,905	265	345	25	81	ND<162
COMBINED	7/15/2005 0900	13,301	376	504	39	133	ND<216

(Contd.)

Table 1

RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Vic's Automotive Oakland, California

Sample ID/ Date	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Taluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MTBE (ppmv)
COMBINED	7/19/2005 0720	10,754	276	398	39	152	ND<81
COMBINED	7/22/2005 1240	10,754	376	530	62	230	ND<81
COMBINED	7/27/2005 1120	12,169	269	610	76	299	ND<108
STACK	7/11/2005 1205	ND<7	ND-=0.07	ND<0.07	ND<0.07	ND<0.07	ND<0.7
ppby TFH g	 parts per billion by volume total potroloum hydrocarbons 		All Samples A	nalyzed by Mod fied E	PA Methods 8015/8021		

Table 2 HIGH VACUUM DUAL PHASE EXTRACTION SPREADSHEET (Using Lab Data) Vic's Automotive, Oakland, CA

		SYSTEM PARAM	TERS					
TIME	Average System Vacuum	Average Total System Inlet Flow	Influent Concentrations Post-dilution*	Hydrocarbon Recovery				
	(in of Hg)	(scfm)	(opmv)	(lbs)	(gal)	(Cumul, Ibs		
7/11/2005 12:00	24	92	19,527	0.00	0.00	0		
7/12/2005 0:00	23	175	9,339	314.80	50.39	314.80		
7/13/2005 8:30	24	80	48	264.79	42.38	579.60		
7/13/2005 9:20	23	170	17,263	12.28	1.96	591.87		
7/14/2005 9:00	22	177	13,867	870.17	139.28	1,462.04		
7/14/2005 21:00	22	177	9,905	343.72	55.02	1,805.76		
7/15/2005 9:00	22	172	13,301	330.80	52.95	2,136.56		
7/19/2005 7:20	17	194	10,754	2,826.89	452.48	4.963.45		
7/22/2005 12:40	17	193	10.754	2,190.96	350.69	7,154.41		
7/27/2005 11:20	17	192	12,169	3,564.66	570.57	10,719.08		
	TOTAL HC RECOV	VERED* - LAB DATA		10,719.08	1715.74			
	TOTAL HG REGO	VERED** - FIELD ANAL)	ZER DATA	10,531.48	1685.71]		
	Average HC Recover	ered*** (Field Analyzer/La	b Data)	10,625.28	1700.72]		

in of Hg = inches of mercury

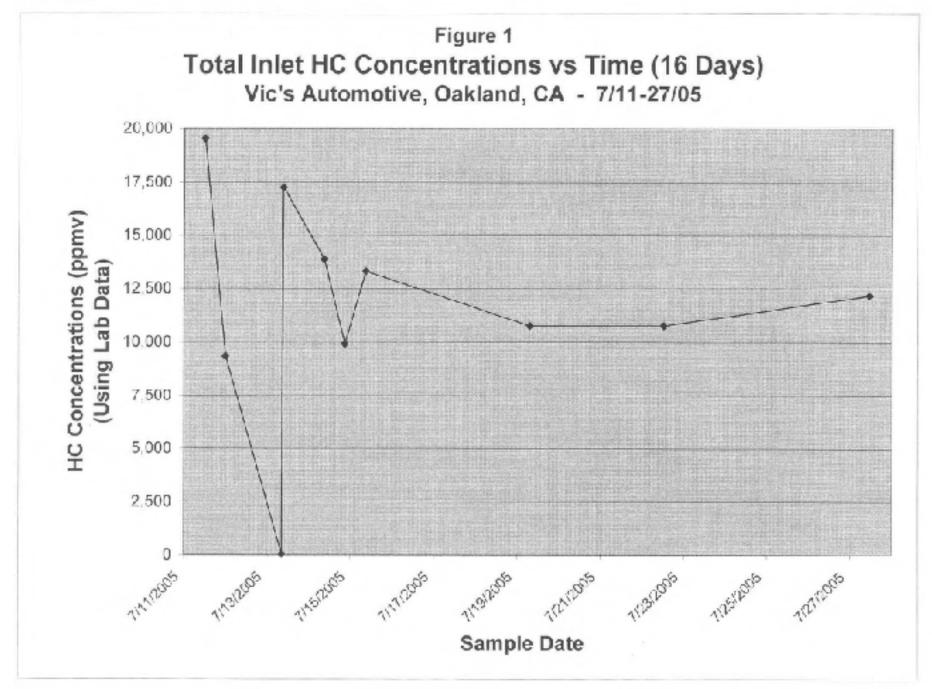
ppmv = parts par million by volume

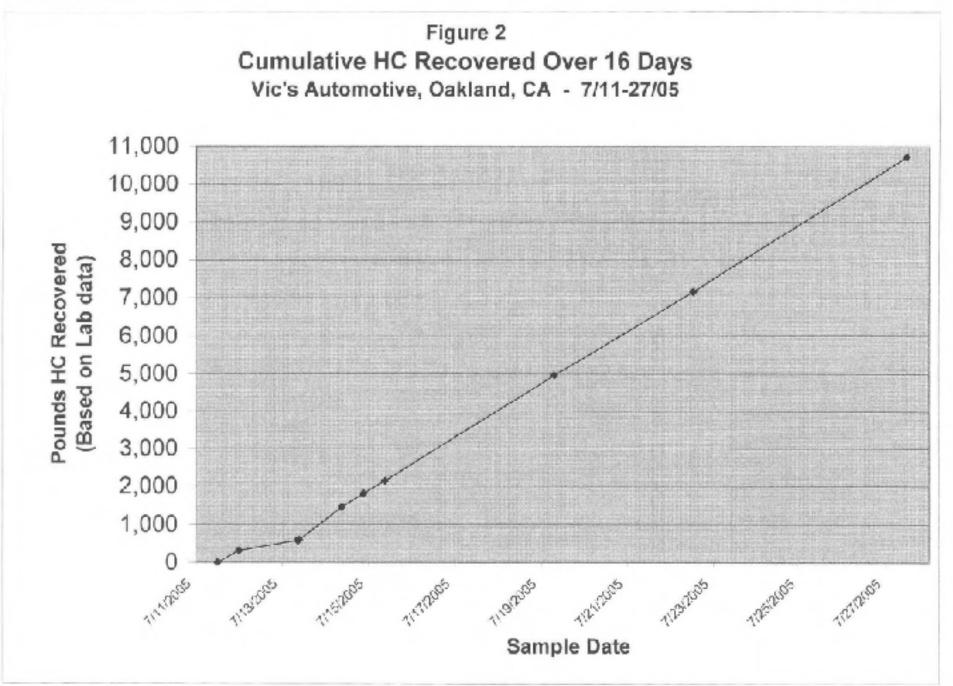
lion by volume gal = gallons lbs = pounds * Concentration data based on laboratory data.

sofm = standard cubic feet per minute

** Based on Horiba field analyzer data.

*** Average HC Recovered using Laboratory and Horiba data





		TEN IS STREET		al the second second	Extraction V/ell V MW-2 (Stinger		SYSTEM	PARAMETERS				
TIME	Extraction V/ell # MVV-1 (Stinger	Extraction Well ≠ MW-6	Extraction V/e & M/W-7 /Stingwi	Extraction Well # MW-5 (Stinger		System Vacuum	Tots System inist Flow	Influent Concentrations*	Effluent Concentrations	iu	rocarton Re sing Horba E	Date)
AL 41.2 (119) (110)(24)	Depth)	Slinger Depth)	Depth)	Depth)	Depth)	(in of Hg)	(scim) ^{es}	(ppriv)	(cpmv) *	(IDS)	(30)	(Cumul, los)
7/11/2005 11:00	20	20	20'			24	97	17,930	22	0.00	0.00	0
7/11/2005 12:00	20'	20'	20'			24	92	18.210		21.05	3.52	21.95
7/11/2005 13:00	20'	20	20'		1.0946	24	86	18.170		19.62	3.14	41.55
7/11/2005 14:00	20'	20'	20'			24	89	15.930		19.12	3.06	60.70
7/11/2005 15:00	20'	20'	20'			24	81	13,210		15.36	2.70	77.56
7/11/2005 16:00	201	20/	20'			24	82	14,120		15.16	2.43	92.73
7/11/2005 17:00	20'	20'	20"			24	87	13,760		15.04	2.57	103.76
7/11/2005 18:00	20'	20'	20'			24	79	13,440		15.37	2.46	124.18
7/11/2005 19:00	20'	20	20'			24	74	8,370		11.36	1.82	135.49
7/11/2005 20:00	20'	20	20'			24	98	7.940		8.88	1.42	144.37
7/11/2005 21:00	201	20	20'			24	82	7,470		9.81	1.41	153.18
7/11/2005 22:00	20'	20	20'			24	80	7.130		8.05	1.29	161.25
7/11/2005 23:00	20'	20	20'			24	77	6,940		7.52	1.20	168.75
7/12/2005 0:00	20/	20	20'			24	78	6.720		7.25	1.15	176.01
7/12/2005 1:00	20'	20	20'			24	74	6,710		8.99	1.12	183.00
7/12/2005 2:00	201	20	202			24	77	6,680		8.88	1.10	189.88
7/12/2005 3:00	20'	20	20'			24	75	6,640		8.89	1.10	196.77
7/12/2005 4:00	20'	20	20'			24	82	6,570		7.06	1.13	203.83
7/12/2005 5:00	20'	20	20'			24	80	6,610		7.21	1.15	211.05
7/12/2005 6:00	20'	20	20'			24	77	6,450		5.93	1.11	217.97
7/12/2005 7:00	20'	20	2C'			21	83	6,420		7.01	1.12	224.98
7/12/2005 8:00	2%	20	20'			24	86	6,350		7.95	1.18	232.33
7/12/2005 9:00	27	20	2C'	20	20"	21	81	6,430		7.26	1.15	239.55
7/12/2005 10:00	22	20	20'	20	20'	24	/5	14,720		11.23	1.80	250.82
7/12/2006 11:00	20'	20	20'	20	20'	24	79	15,380		16.77	2.52	266.50
7/12/2006 12:00	201	20	20'	20	20'	24	84	15,430		17.08	2.73	283.67
7/12/2008 13:00	20'	20	20'	20	20'	24	82	15,620		17.54	2.81	301.21
7/12/2005 14:00	20'	20	20'	20	20'	24	76	15,840		16.92	2.71	318.13
7/12/2008 15:00	22/	20	20'	20	20'	24	73	15,990		16.14	2.58	334.28

	The sea	- Changes			and the second second		SYSTEM	PARAMETERS				
TIME	Extraction (Vel) • MVV-1 (Stinger	Extraction Viel # MW-5	Extraction Wall # MW-7 (Stinger	Extraction V/ell # MVV-5 (Stinger	Extraction Wei # MW-2 (Stinger	Byatem Veouum	Total System In et Flow	Influent Concentrations*	Effluent Concentrations	(u	rocarbon Re- sing Horibe D	(sta)
A STATISTICS AND A STATISTICS	Depth)	Stinger Depth)	Cepth	Depth)	Depth)	(moʻHg)	(sofm)**	(pomv)	(ppmv) *	(106)	(gal)	(Cumul, Ibs
7/12/2005 16:00	20/	20	20'	20	20'	24	77	16,270		15.47	2.64	350.75
7/12/2005 17:00	20'	20	20'	20	20'	24	82	16,340		17.65	2.82	368.40
7/12/2006 18:00	217	20	202	20	20'	24	84	16,450		15.53	2.97	386.92
7/12/2005 19:00	20'	20	20'	20	20'	24	73	16,210		17.45	2.79	404.98
7/12/2005 20:00	20'	20	20'	20'	50,	24	79	16,120		16.73	2.63	421.10
7/12/2005 21:00	20'	20	20'	20'	20'	21	83	15,990		17.71	2.83	438.81
7/12/2005 22:00	20'	20	20"	20'	20*	24	80	15,910		17.70	2.83	466.61
7/12/2005 23:00	20"	20'	20"	20'	20'	24	74	15,850		16.65	2.87	473.16
7/13/2005 0:00	20"	207	20*	20'	20'	24	78	15,720		16.34	2.82	489.50
7/13/2005 1:00	20'	20/	20'	20'	20'	24	74	15,530		16.22	2 50	505.72
7/18/2005 2:00	207	202	20*	20'	20'	24	80	15,420		16.28	2.51	521.99
7/13/2005 3:00	20'	22'	20'	20'	20'	24	78	15,040		16.39	2.82	638.37
7/13/2005 4:00	207	27	20	20'	20'	24	74	14,890		15.48	2.48	653.86
7/13/2005 5:00	20'	20'	20'	20'	20'	24	78	14,740		15.33	2.45	569.19
7/18/2005 8:00	20'	20'	20'	20'	20'	24	78	14,650		15.61	2 50	584.79
7/15/2005 7:00	201	20"	20'	20'	20'	24	79	14,630		15.65	2.50	600.44
7/18/2005 8:00	20'	20'	20'	20'	20'	24	80	14,720		15.88	2.54	616.33
7/13/2005 9:00	20'	20"	20	20'	20"	23	170	18,170		27.99	4.48	644.31
7/13/2005 10:00	20'	20*	20	20'	20'	23	175	17,860		42.31	0.77	686.82
7/13/2005 11:00	20'	20'	20'	20'	20"	23	173	17.340		41.69	6.67	728.32
7/13/2005 12:00	20	20"	207	201	201	23	175	17,190		40.90	0.55	769.22
7/13/2005 13:00	20'	20'	20/	20'	20'	23	173	17,160		40.69	6.51	809.91
7/13/2005 14:00	20'	20"	20	20'	20	23	173	15,970		40.19	6.43	850.10
7/13/2005 15:00	20/	20"	20/	20	20	29	175	19,470		39.61	6.34	889.71
7/13/2005 13:00	20'	20"	20/	2C'	20'	28	171	18.240		38.52	6.17	928.23
7/13/2006 17:00	20	20"	20/	202	207	23	174	15,890		37.73	6.04	965.95
7/13/2005 18:00	20/	20"	20'	20'	20'	25	172	15,910		37.45	5.00	1.003.41
7/13/2005 19:00	20'	201	20'	20'	20'	23	170	15,750		36.85	5.90	1,040.27
7/13/2005 20:00	20	201	20/	20'	20	23	175	15,470		36.66	5.87	1.076.93

	TANK STR			18 6 4 3 4 4 4			SYSTEM	A PARAMETERS						
TIME	Extraction Well # MW-1 (Stinger	Extraction Well # MW-6	Extraction Well # MW-7 (Slinger	Extraction Well # MW-5 [Stinger	Extraction Well # MW-2 (Stinger	System Vacuum	Total System In et Flow	Concentrations*	Effluent Concentrations	(U	Hydrocarbon Bacovery (using Horibe Data)			
RUNA DI MARINA	Depth)	Striger Depth)	Deptn)	Depth)	Dep(h)	(in of Eg)	(scfn)**	(ppmv)	(pprnv) *	(158)	(gal)	(Cumul Ibs		
7/13/2005 21:00	20"	20'	20	20	20'	23	172	15,380		36.41	5.83	1,113.34		
7/13/2005 22:00	20	50,	20'	20	20'	23	173	15,280		35.90	5.78	1,149.32		
7/13/2005 23:00	50.	20'	20	20	20"	23	175	15,130		36.02	5.77	1.185.34		
7/14/2005 0.00	20'	20"	20'	20	20	23	171	15,010		35.50	5.55	1,220.84		
7/14/2005 1:00	20'	20"	20'	207	20	23	172	14.870		34.88	5.55	1,255 78		
7/14/2005 2:00	20'	20'	20'	20/	20'	23	176	14,690		35.01	5.30	1,293.74		
7/14/2005 3:00	20'	20'	20'	20'	20'	23	174	14,530		34.81	5.57	1,325.55		
7/14/2005 1:00	20'	20'	20	20/	201	23	170	14,350		33.82	5.41	1,359.56		
7/14/2005 5:00	20'	20'	20'	20'	20'	23	173	14,210		33.34	5.34	1,392.71		
7/14/2005 8:00	20	20'	20	20'	20'	23	174	14,040		93.37	5.24	1,420.07		
7/14/2005 7:00	20	20'	20	20'	20'	23	171	13,790		32.68	5.23	1,458.75		
7/14/2005 8:00	20	20'	20	20'	20'	23	173	13,450		31.93	5.11	1,490.68		
7/14/2005 9:00	20	20'	20	20'	20/	23	175	14,140		32.72	5.24	1,523.40		
7/14/2005 10:00	20	20'	20	20'	20'	22	189	14,690		33.76	5.40	1,557.16		
7/14/2005 11:00	20	20'	20	20'	20'	22	157	15,090		34.08	5.45	1,591.22		
7/14/2005 12:00	20	20'	20	20'	20'	22	191	15,380		34.00	5.44	1,625.21		
7/14/2005 13:00	20	20'	20	20'	20	22	150	15,240		33.43	5.36	1,658.64		
7/14/2005 14:00	20	20"	20	20'	20'	22	153	15.120		33.38	5.34	1,692.02		
7/14/2005 15:00	20	20'	20	20'	20	22	189	15,180		34.24	5.48	1,720.26		
7/14/2005 19:00	20	20'	20	20'	20	22	171	15,050		34.98	5.60	1,761.25		
7/14/2005 17:00	20	20"	20	20'	20	22	177	15,010		35.61	5.70	1,796.85		
7/14/2005 18:00	20	20'	20	20'	20	22	199	14,990		35.33	5 66	1.832.18		
7/14/2005 19:00	20	20"	20	20'	20	22	176	14.740		34.91	5 59	1,067.10		
7/14/2005 20:00	20	20'	20	20'	20	22	170	14,060		34.82	5.64	1.901.72		
7/14/2005 21:00	20	20'	20	20"	20	22	177	14 520		34.55	5.54	1,936.30		
7/14/2005 22:00	20	20'	20	20	20	22	171	14.570		34.58	5.63	1.970.88		
7/14/2005 23:00	20	20'	20	20'	20	22	173	14,570		34.24	5.48	2.005.12		
7/15/2005 0:00	20	20'	20	20"	20	22	172	14.540		34.65	5.66	2.039.77		
7/15/2005 1 00	20	201	20	20'	20	22	174	14,710		34.80	5.67	2.074.57		

							SYSTEM	PARAMETERS				
TIME	Extraction Well # MW-1 (Stinger	Extraction Well # MW-6	Extraction Well # MW-7 [Stinger	Extraction Well # MW-5 (Stinger	Extraction Well MW-2 (Stinger	Eystem Veduum	Lotel Eystem Inter Flow	Infrient Concentrations*	Effluent Concentrations	(u	covery Data)	
a di a sa da ba da se se se se	Depth)	Stinger Depth)	Depth)	Depth)	Depth)	(in of Hg)	(st/m)**	(apmv)	· (vmqq)	(lbe)	(gc))	(Cumul, Ica)
7/15/2005 2:00	20'	20'	20	20'	20'	22	171	14,880		34.51	5.52	2,109.08
7/15/2005 3:00	20	20'	20	20"	20'	22	172	(14,530		34.22	5.48	2.145.30
7/15/2005 4:00	20	20'	23	207	20	22	174	14,590		34.77	5.56	2,178.07
7/15/2005 5:00	20	20	20	20'	20	22	173	14 400		34.59	5.54	2 212.66
7/15/2005 6:00	20	20	20'	20'	20	22	171	14.250		33.55	5.37	2,246.21
7/15/2005 7:00	20'	20'	20'	20'	20	22	173	13,980		33.05	5.29	2,279.26
7/15/2005 8:00	20'	20'	20'	20	20	22	170	13,680		32.29	5.17	2.311.55
7/15/2005 9:00	20'	20'	20'	20'	20	22	172	13,240		31.34	5.02	2,342.89
7/15/2005 10:00	20'	20'	20'	20/	20/	22	174	13,460		31.44	5.03	2.374.34
7/15/2005 11:00	20'	20'	20'	20'	20'	22	170	13.310		31.34	5.02	2,405.68
7/15/2005 13:00	20'	20'	20'	20'	20'	20	179	14,850		0.00	0.00	2,405.88
//15/2005 14:00	20'	20'	20'	20'	20'	20	177	14.230		35.24	5.64	2,440.92
7/15/2005 15:00	20'	20'	20'	20	20'	20	179	14,490		34.80	5.57	2.475.72
7/15/2005 16:00	20'	20/	20'	20	20'	20	181	14.640		35.57	5.69	2,511.29
7/15/2005 17:00	20'	20	20'	20	20'	16	196	14,370		37.10	5.94	2,548.39
7/15/2005 18:00	20'	20/	20'	20	20'	16	191	14,310		37.78	6.05	2,586.17
7/15/2005 19:00	20'	20'	20'	20	20'	16	194	14,180		37.33	5.98	2,623.50
7/15/2005 20:00	20'	20	20'	20	20'	16	198	13,980		37.55	6.01	2,661.05
7/15/2005 21:00	20'	20	20'	20	20'	16	197	13,770		37.28	5.97	2,098.33
7/15/2005 22:00	20'	20	20'	20	20'	18	195	13,840		35.84	5.90	2,735.17
7/15/2006 23:00	20'	20	20'	20	20'	16	192	13,790		36.40	5.83	2,771.57
7/15/2005 0:00	20'	20	20	20	20'	15	196	13,680		36.28	5.81	2.807.54
7/18/2005 1:00	20'	20	20'	20	20'	16	197	13,580		36.46	5.84	2,844.31
7/16/2005 2:00	20/	20	20	20	20'	15	195	13,610		36.28	5.81	2,880.50
7/13/2005 3:00	20'	20	20'	20	20'	18	198	13.690		36.52	5.85	2,917.11
7/16/2005 4:00	20'	20	202	20	20'	15	197	13,450		36.49	5.84	2.953.80
7/13/2005 5:00	20'	20	20'	20	20'	18	196	13,300		35.78	5.73	2,989.35
7/18/2005 6:00	20'	20	20'	20	20'	15	193	13,380		35.32	5.65	3.024.70
7/18/2005 7:00	20'	20	20	20	20'	16	197	13,240		35.34	5.65	3,060.04

							SYSTEM	PARAMETERS					
TIME	Extraction Well # MW-1 (Stinger	Extraction Vib I & MW-6	- idtraction Well # MW-7 (Stinger	Extraction Well # MW-6 (Stinger	Estraction Well # MW-2 (Stinger	System Vacuum	Total System Inlet Flow	Influent Concentrations*	Effuer I Concentrations	[0	rocarbor Rei sing Horibe I	Data)	
a series developed and	Depth)	Stinger Depth)	Deoth)	Dapth)	Dep:1)	(in of Hg)	(cofm)**	(ppmv)	(pp T Y) *	(80)	(gal)	(Currul list)	
7/16/2005 8:00	20'	20'	20'	20	20'	15	195	13,120		35.17	5.53	3,095.21	
7/16/2005 9:00	20/	20'	20'	20	20'	16	199	13,270		35.39	5.55	3.130.60	
7/16/2005 10:00	20/	20'	20'	20/	20	18	196	13,070		35.41	5.57	3,185.02	
7/16/2005 11:00	20'	20'	20'	20/	20	16	198	13,140		35.15	5.83	3,201.17	
7/16/2005 12:00	20	20'	20	20'	20	17	191	13,850		35.47	5.85	3,235.64	
7/16/2005 18:00	20'	20'	20	20'	20'	17	190	13,360		140 11	22.43	3,376.75	
7/16/2005 20:00	20	20'	20	20'	20/	17	194	13,290		139.28	22.29	3,518.03	
7/17/2005 0:00	20	20'	20	20'	20'	17	191	13,410		139.90	22.39	3,655.93	
7/17/2005 4:00	20	20'	20	20'	20/	17	193	13,590		141.16	22.69	3,797.09	
7/17/2005 8:00	20	20	20	20'	20'	17	191	13,820		142.26	22 77	3,939.35	
7/17/2005 12:00	20	20'	20	20'	20	17	194	13,470		142.00	22.78	4,081.35	
7/17/2005 15:00	20	20'	20	20'	20'	17	192	13,350		140.95	22.56	4,222.30	
7/17/2005 20:00	20	50.	20	20"	20	17	190	13,210		138.14	22.11	4,360.43	
7/18/2005 0.00	20	20'	20	20'	20	17	191	12,990		135.91	21.75	4,496.34	
7/18/2005 4:00	20	20"	23	20'	20	17	190	12,830		133.94	21.44	4,630.28	
7/18/2005 8:00	20	20'	20	20'	20	17	192	12,550		132.18	21.15	4,762.43	
7/18/2005 12:00	20	50.	20	20'	20	17	191	12,350		130.05	20.82	4,892.48	
7/18/2005 15 00	20	20"	20	20"	20	17	193	12,210		128.46	20.66	5,020.94	
7/18/2005 20:00	20	20'	20	20"	20	17	194	12,020		127.67	20.44	5,148.61	
7/19/2005 0.00	20	20"	20	20'	20	17	190	11.780		124.43	19.92	5,273.04	
7/19/2005 4:00	20	20	23	20"	20	17	192	11,540		121.29	19.41	5,394.32	
7/19/2005 8:00	20	20	20'	20'	20	17	194	11 370		120.40	19.27	5,514.72	
7/19/2005 12:00	20	20	20'	20'	20	17	190	11 160		117.79	10.65	5.032.51	
7/19/2005 10:00	20	20	20'	20'	20	17	193	11.310		117.17	18.75	5.749.68	
7/19/2005 20:00	20	20"	20/	20'	20	17	192	11,450		119.30	19.1C	5.868.09	
7/20/2005 0:00	20	50,	20'	20'	20	17	191	11,300		118.83	18.99	5.987.62	
7/20/2005 4:00	20	20	20	20'	20	17	192	11,210		117.38	18.79	5,105.CC	
7/20/2005 8:00	20	20	20	201	20	17	190	10,950		115.41	18.47	3,220.41	
7/20/2005 12:00	20	20"	23	20	20	17	191	10.540		112.15	17.95	5,332.56	

		1.2.2.2.1			Extraction Well 4 MW-2 (Stinger		SYSTEM	PARAMETERS				
TIME	Extraction Well # MW-1 (Stinger	Extraction VVe1 * MW-6	Extraction Well # MW-7 (Slinger	Extraction Well # MW-5 (Stinger		System Vacuum	Ectel System Inlet Flow	Intilient Geneentrations*	Elfluent Concentrations	(L	Hydrobarbon Recovery (Laing Horiba Data)	
	Depthy	Stinger Depth)	Depth)	Depth)	Dep(.))	(in of Hg)	iscin)**	(spinv)	(pp:=v) *	(BC)	(qa)	(Cumul, Ibs)
7/20/2005 16:00	20	20'	20	20/	20'	17	193	10,280		109.37	17.51	6,441.03
7/20/2005 20:00	20'	20'	20'	20'	20'	17	194	10,480		109.38	17.51	6,551.31
7/21/2005.0:00	20/	201	20'	20'	20	17	196	9,700		107.15	17.15	8,658.47
7/21/2005 4:00	20'	20'	20	20'	20'	17	193	9,530		101.85	16.30	8,760.31
7/21/2005 8:00	20/	20*	20	20'	20'	17	190	9,670		100.12	18.05	5.860.43
7/21/2005 12:00	20	20'	20	20"	20'	17	194	9,810		101.84	16.30	5,962.28
7/21/2005 19:00	20	20'	20	20'	20'	17	192	10,230		105.32	16.86	7.067.59
7/21/2005 20:00	20	20'	20	20"	20'	17	193	9,980		105.94	16.96	7.173.53
7)22/2005 0:00	20	20'	20	20	20'	17	194	9,310		101.64	16.27	7.275.17
7/22/2005 4:00	20	20'	20	20	20	17	193	9.680		100.06	16.02	7 375 23
7/22/2005 8:00	20	20'	20	20	20	17	194	9,470		100.90	16.15	7 476.13
7/22/2005 12:00	20	20'	20	20'	20	17	193	9,280		98.79	15.81	7 574 92
7/22/2005 16:00	20	20'	23	20	20	17	194	10.380		103.59	16.58	7.678.51
7/22/2005 20 00	20	20'	20	20'	20	17	193	10.520		110.12	17.63	7.788.63
7/23/2005 0:00	20	20'	20	20'	20	17	195	10,760		112.41	17.99	7.9C1.05
7/23/2005 4:00	20	20'	23	20'	20	17	190	10.610		112.02	17.63	8.012.06
7/23/2005 8:00	20	20'	2.3	201	20	17	194	10,400		109.94	17.58	8 122.91
7/23/2006 12:00	20	20"	23	20	20	17	191	9.460		104.10	16.66	8,227.01
7/23/2005 16:00	20	20"	20	20'	20	17	190	9.590		98.32	15.82	8,325.83
7/23/2005 20:00	20	20"	20	20	20	17	192	9,830		101.00	16.17	8,426.83
7/24/2005 0:00	20	201	20	20	20	17	194	10,060		104.45	16.72	0.531.31
7/24/2005 4:00	20/	20"	20/	20'	20	17	193	10.190		103.84	17.07	8.637.95
7/24/2005 8:00	20	20"	20	20'	20	17	191	9.940		105.24	16.85	8,743.19
7/24/2005 12:00	20/	20'	20	20	20	17	194	9,560		102.21	16.38	8.845.41
7/24/2005 16:00	20	20"	20'	20'	20	17	198	9.110		99.64	15.95	8,945.05
7/24/2005 20:00	20	20"	20	20'	20	17	198	8.940		96.83	15.50	9,041.88
7/25/2005 0:00	20	20"	20	20'	20	17	195	9.870		100.13	16.03	0,142.01
7/25/2005 4:00	20	20'	20	20'	20	17	192	9,130		100.11	16.02	9,242.12
7/25/2005 8:00	20	50,	20	20*	20	17	193	8,870		94.35	15.10	9,336.48

							SYSTEM	M PARAMETERS				
TIME	Extraction Wei # MW-1 (Strige Depth)	Extraction Vieti # MW-5 Stinger Depth)	Extraction Well # MW-7 (Slinger Depth)	Extraction Well # MW-5 (Stilger Depth)	Extraction Wei # MW-2 (Stinge Depth)	System Vecuum (mof Hg)	Totel System Intel Flow (scfm)**	Influent Concentrations* (ppmv)	Effluent Concentrationa (cpmv) *		rocarteon Repr sing Horba Da (gal)	
7/25/2005 12:00	20'	20/	20'	20'	20'	17	195	3.090		92.73	14.85	9.429.24
7/25/2995 16:00	20'	20'	20'	20'	20'	17	104	8 770		92.47	14.80	9.521.71
7/25/2005 20:00	20'	20	20'	20'	20'	17	181	3,640		91.23	14.61	9.612.97
7/28/2005 0.00	20'	20	20'	20	20'	17	193	8.51C		89.66	14.35	9.702.63
7/23/2005 4:00	29	20	20	20	20'	17	190	8,610		89.27	14.29	9.791.91
7/28/2005 8:00	20'	20	20'	20	20"	17	193	8,57C		89.59	14.34	9,881.49
7/28/2005 12:00	23'	20	20'	20	201	17	191	8,450		88.98	14.24	9,970.47
7/28/2005 16:00	20'	20	20'	20	201	17	190	8,240		88.58	13.86	10,057.05
7/26/2005 20:00	20'	20	20'	20	20'	17	192	8,100		84.98	13.60	10,142.03
7/27/2005 0:00	20'	20	20'	20	20'	17	195	8.220		85.00	13.76	10,228.02
7/27/2005 4:00	20"	20/	20'	20	20'	17	193	6,230		B0.90	13.91	10,314.92
7/27/2005 8:00	20'	20'	20'	20	20'	17	194	8.360		87.41	13.99	10,402.34
7/27/2005 12:00	20"	20/	20'	207	20'	17	191	8,130		85.44	13.84	10,488.77
7/27/2005 14:00	20'	20'	20'	20'	20'	17	192	8,250		42.71	6.84	10,531.45
		·						TOTAL HC RECOVE	ERED	10,531.48	1685.71	
								TOTAL LIQUID REC	OVERED		80,740	

in of Hg = inches of more ry

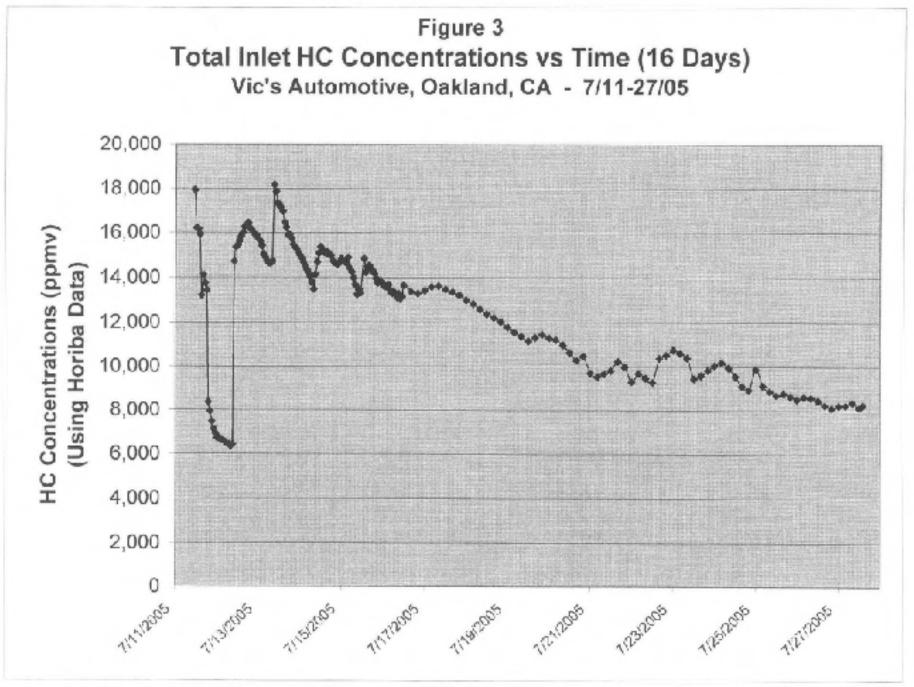
sefm = standard cubic faet per minute

erollag = lag

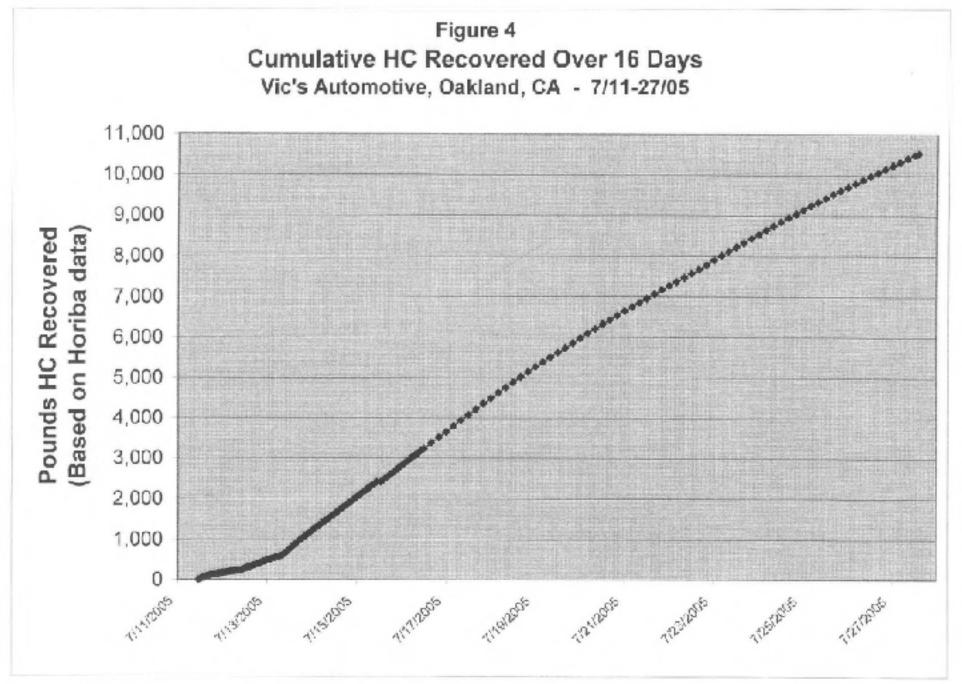
be = counce

* Concentrations based on Horiba MEXA 334-JU field organic vapor analyzer, calibrated as hexand

** Inlet Fow measured through chilice tube and converted from actim to reported spim.







CalClean Inc.

Table 4

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES Vic's Automotive Oakland, California

Sample ID/ Date	Date/Time Sampled	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	7/27/2004	220,000	26,000	37,000	3,200	18,000	2,500
MW-2	7/27/2004	9,500	1,400	1,000	180	960	910
MW-4	7/27/2004	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-5	7/27/2004	120,000	10,000	19,000	2,100	13,000	1,100
.45.							
	parts per bill on by volume total petroleum hydrocarbor		Al Influent Sa	mples Analyzed by	EPA Method 8020/82608	В	

CalClean Inc.

ATTACHMENT 1

LABORATORY REPORTS

Laboratory Reports Removed (See Appendix D of AEI Report for all lab reports) CalClean Inc.

ATTACHMENT 2

HIGH VACUUM DUAL PHASE EXTRACTION SYSTEM FIELD DATA SHEETS

 $\sim 10^{-1}$

CALCLEAN ING. (714) 734-0137

					Weli#1:	MWJ-1	Well#2:	MW-6	Well #3:	MW-7	Well #4:M	W-S	Well 45. MUJ-L	Well #6:	MWHO	Well #7: 1	MU-2	Well #8:	W-3
	th to Grou	undwater			15.0%	14.93	14:15	비기막	15.63/1	16-5 <u>5</u>	15.44		17-29	14.1				14.17	
Screen In		Taba	1000	1219 1-1-1	-		-		1					-					
Time	Unit Vsauum	Totel Flowrate	ТОХ Тетр.	TOX Inlet Conc		Stinger Depth								Vapuum "H ₂ O	DTVV (ft)	Vacuum "H ₂ O	(Tr)	Vacuum "H ₂ O	(ft)
	("Hg.)	(ecím)	(degF)	(ppmv)		(feet)													
					OPEN	20/	OPEN	201	OPEN	20'									
100	24	97	1570	17930	1														
1200	24	97	1677	16210	15860	PPMU	1130	PPMV	13760	PPMN									
300	24	84	579	10176	1														
400	24	89	15de	15930								4.25	1149				4.48		10.51
1500	24	81	1572	13210								6.25	1752	þ			16 50		10.52
1600	24	82	1591	14120							1	6.25	1754				1651		16.52
1700	24	87		13760								6:15	115				16.51		16 52
1800	24	79	1560	13440		N'	OPEN	14	DPEN	14		10.26	17/57	Z			14.52	5	14.51
1900	24	74	1557	8370															
2000	24	Bla	1562	7940															
2100	24	82	1554	7470															
2200	24	80	1547	7130															
2200	24	77	1541	6940															
2400	24	79	1542	6720															
					-					-									
										-		-							
											*								
									1										
														_					
														-					
	e												OD PPMV). SNGERS T						

CALCLEAN INC. (714) 734-9137

Project Location:	245 8TH STRE	ET
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Operator (s): VAL DAVIS

Date: 1 /12+2005

Page 2 or 10

Client: AEI (925-283-5000). Peter M. Cell: 925-285-8286

					We!#1	110-1	Well02.	MW-4	Well #3:1	MW-7	Viel #4:MW	-5	Wei #s: MW-4	Wall 08)	1w)	Weil #7.1	1112-2	Well 48	100-
	oth to Grou	undwater																	
Screen In	iterval																		
Time	Unit Vacuum		TOX Temp	TOX Inlet Conc.		Stinger Depth								Vacuum 'H ₂ D	(ff)	Vacuum "H ₂ O	DTW (F)	Vəcuum "H ₂ O	DTW (ft)
	("Hg.)	(scfm)	(dogF)	(ppmv)		(feet)						_							
0150	24	74		6710		1	OPEN	11	OPEN	11									
0220	24	77		6680															
0300	24	75	1523	6640															
00400	24	82	1527	6510															
0020	211	80	153	6510															
0000	24	77	1515	6450								1							
0700	24	83	1510	6420								+							<u> </u>
6806	24	86	1519	6350								+					-		
0900	24	81	1514	6430								+							
1000	24	75	1519	14720	OPEN	201	OPENI	201	OPEN	201	14.98	1					Vo.79	16.64	
1100	24	79	1517	15360							16.29					-		16.67	
1200	24	84	1510	15430							17.00	+					16 84		
1300	24	92	1501	15620							17.52	+						16.73	<u> </u>
1400	24	76	1509	15840							17.03							16.17	
1500	24	13	1513	15990							17.04							110.30	
1600	24	77	1507	16270					-		17.07							14,83	
1700	24	82.	1511	16340							1769	+						16.85	
1900	24	84	1504	16450							17.10	+						16.87	
1900	24	73	1509	16210							17.11	+						16.90	
2000	24	79	1513	16/20							17.12	+					17.07	16.91	
2100	24	83	1507	15990					,		17.12	+						16.93	
2200	24	80	1501	15910							17.13	+						16.95	
2300	24	74	15/1	15360							17.15	+						1694	
	24	18	1504	15720				-			17.17	-						16.99	

Comments:

CALCLEAN INC. (714) 734-3137

					Well#1:	HILL!	Weller-	Mul-Z	Well #3.0	11.1.1	Well #4:1	111-54	No:1#5:1412-4	Well#6:1	Mn)_1/	Alel 17.1	0.0	Well ±9.	Wez-
Initial Dep	th to Grou	indwater				/110/1		1 100 (9		citur r		100 2 -	in an		140 11		10-6		10 -
Screen In	lerval							_											
Time	Unit Vacuum (1Hg.)	Total Flowrate (cofm)	TOX Temp (dogF)	TOX Inlet Conc (ppmv)		Stinger Depth (fect)								Vacuum "HyO	(1)	Vacuum 'H₂O	(ft)	Vacuum "H ₂ O	DTV (fl)
0100	24	74	1627	15630	OPEN	201	OPEN	201	OPEN	20'	17.18						17.23	17.04	
0300	21)	40	1530	15420			-				17.20							17.09	
0300	24	18	1528	15040							(7. 2)							17.13	
0400	24	74	15.32	14890							11.22							17.14	1
0500	24	78	1530	14740		3					17.23							17.19	
0600	24	78	1530	14650							17.24							17.20	
0700	24	79	1530	14630							17. 24							17.21	
0800	24	30	1532	14720							17 24							17.21	
0900	23	170	1530	18170	9340	PPMW	5260	PPM	15600	PPNEN	OPEN	20'		0,00	18.81	CREW	20'	17.26	
1000	,23	(75	1530								11,290	PPMV		000	15.87	6940	PPREV	17.28	
1100	23	173	1532	17340										0 00 C	15.91			17.31	
1200	23	175	1530	17190										0.00	15.23			17.92	
1300	23	173	153,2	17160										0.00	15.97			0.00	17.68
1400	23	173	1530	16970										0.00	15.97			0.00	17.68
1500	23	175	1530	16470										0.00	15.98			0.00	17.69
1600	23	(7)	498	16240										0.00	1601			0.00	17.11
1700	23	174	1495	15890										00.0	1601			000	17.71
1800	23	172	1478	15910										0.00	16.03			0.00	17.73
1900	23	01		15750						÷				0.00	16.05			0.00	17.75
2000	23	175	1437	15470										0.00	16.08			0.00	1.79
2100	23	172	1429	15360					1					0.00	16 11			0.00	17.6
2200	23			5280		_								0 00	16.13			0.00	17.64
2300	23		the second se	15130										000	16.16			0.00	17.5
2400	2:3	171	1412	15010										0.00	16.18			0 00	17.70

Project Location: 245 8TH STREET

Total

Flowrate

(ccrim)

172

176

174

170

72

114

171

173

11.5

169

67

161

160

163

169

171

177

62

176

170

1-1-1

VIL

143

172

Initial Depth to Groundwater

Unit

Vecuum

("Hp.)

23

23

23

23

23

23

23

23

22

22

22

22

22

22

22

22

22

22

22

22

22

22

22

22

Screen Interval Time

0100

0200

33.00

CUM

0Shth

06:50

0900

OPENS

ONO

000

1100

1200

1300

14/10

1500

600

1100

1800

1900

2000

2100

2200

2300

ZNON

City: OAKLAND

PPEN

20

Weller: MW-1

Stinger

Eventh

(feet)

201

7980 PPUN

Site # LUM PROPERTY

20' DEEN

28

Welk2. MW-6 Well #3/MW-7 Well #4: MW-5 Well #5: MW-4 Well #5: MW-11 Well #7: MW-2 Woll #8: MW-3

DTW

(fft)

151

Vacuum

"H.O

Date: 7 114/2005

Vacuum DTW

D 00 16.21

0.00 16 22

0.00 16.22

0.00 16.24

0.00 1626

0.00 16.27

0.00 15.29

0.00 1631

0 00 10 32

0.00 16.32

0.00 6.32

0.00 1633

0.00 4.33

000 1624

0.00 16.34

0.00 16.35

0.00 16.36

0.00 16.36

0 00 16.38

0. 90 16.38

0.00 14.30

Breech W.

0.00 1630 11270 PMN

(#t)

C. OD 16 1C (PEN)

"H₂O

(714) 734-9137 Page 4 of 10

Vacuum

"H₂O

0.00 117.70

0,00 17.17

2.00 11.81

2. oc 11.25

0.00 17.89

0.00 11.90

0.00 15 61

0.00 18.02

0.00 12.02

0.00 1303

0.00 19.03

0.00 13.02

0.00 18.0U

10.81 00.0

0.00 15.04

0.00 18.04

0.00 18.05

0.00 16:05

0.00 16.05

0.00 18.06

0 00 18 06

18.03

0.00

10.48

15.02

000

0.00

DTW

(11)

CALCLEAN INC.

Client: AEI (925-283-6000). Peter M. Cell: 925-285-8286

TOX

Temp.

(degF)

107

1410

1412

RU IN

428

1432

LKIM

1468

455

1445

M3C

424

457

1462

1461

174

Hbl

1457

TOX Inlat

Corc

(cpmv)

14690

14530

1-350

14210

NO IN

13790

3480

4140

14690

15360

15240

15/20

5.180

14.740

14 620

14870

NZWI

1438 15090

459 15.050

1456 15.010

1459 4970

1465 14.660

1468 14570

4870 OPENI

Operator isk DAVIS R. / BRANDONS P

OPEN

4370 PPMV 18300 PPMV 9150 PPMV

Comments: 7/14 - TOOK VARCE SAMPLES; CONSMED @ 0900, MW-1 @ 0910, MW-2 @ 0920, MW-5 @ 0930,

NAME & COND AND MINITO 0950 . TOOK & COMBINED VAPOR SAMPLE @ 2100.

CALCLEAN INC.

					Wel#1:	MW-1	Well02.	MW-6	Wall #3:	MW-7	Viel #4:/	MW-5	Well #5: MW - H	Well 96;	MW-11	Well#7:	WW-2	Well #8.	MUL
	th to Grou	indwater																	
Screen In Time	Unit	Total Flowrate (sofm)	TCX Temp. (degF)	TCX Inlet Cone. (ppmv)		Stinger Depth (feet)								Vacuum 'H ₂ D	01W (ff)	Vecuum "H ₂ O	DTW (ft)	Vəcuum "H ₂ O	(fi)
000	22	174	1470	14 710	OPEN	2.0	OPEN	20'	MPRON I	20	SPEN	20		0 00	16.41	OPEN	201	0.00	18.07
200	22	171	NGL	14680										0.005	16.42	47 912	1-15	0.00	
0300	22	172	1468											0.00	16.42			000	
1400	22	174	1471	14890						1				0.90				0.00	
1500	22	173	NUGE,	14400										0 00	1			0.90	
(00 5 K	22	171		14250											16.45			0.00	
dore	22	173		13985											14.46			0.50	
2600	22	170		13 680										+ 50			-	0.0-2	-
900	22	172	147	13 240	5250	PPMV	5130	PPMU	19470	PPMV	4590	PPAN				8510	PEMY	0.00	-
000	2.2	174		13,4 60											16.50			0.00	-
100	22	110	1451	13310										0.00				0.00	
130	UNIT	SWOT	DOWNS																
30D	20	179	1488	14850										0.00	15.16			00.5	17.61
000	20	177	1493	14230										0.00	15.84			0.00	
500	20	179	1540	14490										0.09	15.15			0.00	
600	20	181		14540										000	15.87				
700	16	196	1560	14370										0.00	15.89				1761
800	16	191	1537	14310										400	ISAZ				17.62
900	16	194	1540	14(180										0.00	1585				17.64
000	16	198	1546	13960										5.00	15198				17.66
100	16	197	(541	13770										0.00	16.00				17,69
200	16	195	1538	13840										0.00	16.03				(7.7)
300	16	192	1537	13790										0.00	1601				12.72
400				13680										2.00	15.09				17.73
cmmen	ts: 7/	15 -	TOOK	AIR VA	PCR =	Sema:	5:	COME	Gerae	62 (0900	. MW	1 @ 0	905	MW	-20	091		

CALCLEAN INC. (714) 734-9137

Project Location:	245 8	TH S	TREET	

City: OAKLAND

Site # LUM PROPERTY

Date: 7 16/ 2005

Page 6 of 10

Client: AEI (925-283-6000). Peter M. Cell: 925-285-8286

E.

Operator (s) BRISHDON P.

Initial Dep Screen In Time	Unit	Total			\Vel⊯1:1			4		-						Well #7.1		Well #8;	
	Unit	Tabal																	
Lime		Takal																	
		Flowrate	TOX Temp	TCX Inlat Conc.		Stinger Depth								Vacuum 'H ₂ O	DTW (ff)	Vacuum "H ₂ O	DTW (ft)	Vacuum 'H ₂ O	DTW (Ti)
	("Hg.)	(scfm)	(dogF)	(ppmv)		(feet)													
0010	16	197	1563	13580	OPEN)	201	OPSN)	20'	SPEN	201	OPEN	201		3.0-3	16.12	QPEN.	201	000	17.74
0200	16	195	1557	13610										0,05				0.00	174
0300	16	198	1561	13690										3.00				0.00	11 75
0400	16	197	1555	13450									1	0.00				0.00	1- 15
5007	1b	196	1554	13300										0.00				П.	175
0600	16	193	1546	13350										0.00	and the second se			0.10	17.77
0700	16	197	1551	13240										0.00					17.78
0500	16	195	1658	13120									1	0.00					178
2900	16	199	1550	13270	4950	PPMV	5090	PPNY	169,40	PPMN	4980	PPWW				8210	PPIAN		17.78
000	16	196		13,070										0.00				0.10	
IDO	16	198		13140										0.00				0.10	
200	17	191	1537	13650		-							 -	0.00	1531			6.10	17.74
600	17	190		13360										0.00				0.10	
2000	17	194		13280										0.00				0.10	
2400	17	191		13410									-						
													 -						
Commen	4e-							_					 L						

GALCLEAN INC. (714) 734-9137

Project Location: 245 8TH STREET

City: OAKLAND

Ste #: LUM PROPERTY

Date 7 /7/2005 Page 7 of 10

Clent AEI (925-283-6000). Peter M. Cell: 925-285-8286 1

Operator (a): BRANDON P.

1-1-1 D		1			Well#11	MW-1	Weil#2:	MINJ 6	Well #S./	WW-7	Woll #4:1	14:5	Well/6.Mw=G	Well#6:	Minu - 11	Well #7: h	my-1-2	Well #8:	MW 3
Initial Dep Screen Inf		indwater					-												
Tme	Unit Vacuum ("Hg.)	Tatal Flowrate (sofm)	TOX Temp. (degF)	TOX Inlet Conc. (ppmv)	1	Stinger Depth (foot)								Vacuum "H ₂ C	DTW (*)	Vacuum 'H ₂ O	ETW (ft)	Vacuum "H ₂ O	DTW (ft)
7/17					OPEN		0PEN	201	OPEN	20	OPEN	201				OPEN	20'		
0400	17	193	1521	13590			- Cit		01.012			EV.		0.00	16.41	ALC:	-5	0.15	11.80
0000	17	191	1529	and the second se	4670	PDMV	5140	PPMV	17 490	PPIAJ	3060	PPMY				8430	PENAU	- K	1985
1200	17	194	1526	13470							-			0.00			r i reing	0.00	
1600	17	192	1515	13350										1	16-3%			0.00	
2000	17	190	1510	13210										300				0.00	
2400	17	19)	1507	12990										0.00				0.00	
7/18					-														<u> </u>
04.0C	17	190	1492	12530										0.55	1622			0.00	17.20
0800	17	192		12580	4400	PPMN	4270	PPMU	16910	PPMU	3790	PPLW				4640	DOM	0.00	
1200	17	191	1494	2360			10-10		100 1100		2110	1 1 1 1		0.00	10.10	10.0	Line of	0.00	_
1600	11	193		1221D							-			0.00				0.00	_
2000	17	[9]-1		12020										0.00				0.00	
2400	11	140	1532	11780										0.00				0.00	
7/19																			<u> </u>
0400	17	192-	1541	11540										000				0.00	17.50
0380	17	194	1535	11370	4350	PPMU	3590	PPMN	16580	PPMU	2170	PPMV			10.17	1347	Vincity	0.00	P.50
1200	17	190		1160											16.12			0.0	
1600	17			11310					1					0.00					17.4
2000				11450										0.00	16.08			0. (C	17.4-
2400	17	191	1546	11300										0.00	16.12			0.10	17 50
Commen	ts:7/1	9 70	OK AIR	2 MARDE	SAN	PLES	; Ce	MBIN	ED @	072	20	MW-	1 @ 072	5.	MW	20	072/		
				1-6															

CALCLEAN INC.

Initial Depth Screen Inte Time	h to Grou	and and a			A Y ELLIPY	MIN-1	W/olltt?	PAUL 1.	14/41/446	k zust - Er	DATA DATA							_	In case of the local division of the local d
Time		nnawater			-		THUNK	and the	Anel #3	MW	008184	WW-2	Weil #5 Mini- 14	V/ell #8.	MN-11	Well 47.	MW-2	Wei #	MW-
									-										
	Unit: Vacuum ("Hg.)	Total Flowrate (sofin)	TOX Temp. (degF)	TOX Inlet Cond. (opmv)		Stinger Depth								Vacuum "H ₂ O	UTW (ft)	Vasuum "H ₂ O	DTW (ft)	Vacuum "H ₂ O	
7/20		1	(acgr)	Linhurd	OPEN	(feat) 2.61	1000	10.1	110-	-	-	-							1
0400	17	192	153A	11210	-		02EN	20.	IPEN.	201	OPEN	20'			1	OPEN	20'		
	17	190	1541			Dr. A.I	1/10.00			-	-			0.00	16-18			0.10	17.5
	17	191	ISSL.	10430	10 10	PERIV	32-0	Nov A	16120	PPM	1835	PPMN		0.00	16.19	1145	PFIN	0.10	17.50
	177	193	1567	10280	-			-	-		-	-		0.60	6.20			0.10	17.59
1 000	17	194	1563	10480				-						0.00	16.21			0.10	1261
	17	196	555	9700					-			_		0.00				0.25	
	-	1.1.11	1.000	1100	-				-					0.00	16/2			500	
7/21					-	-		-	-										
	17	193	1567	9530	-											_			
	17		1515.	9670	3920	20xavi	1900	0.2.1.1	15100	10.01	11.4.5			0.00		_		0.20	18.09
		and the second se	1561	4810	1.30	ST MIN	CABO	KKWY.	12020	FFWV	1672	FFAN		0.00	6.47	1358	FRANY	0,25	18.12
600 1	7		1554	0230			-			-	_								
2000 1		193	1567	9980			-			-				000				0.25	18.04
400 /	7	194		9310			-	-						0-00				0-10	
				10.00			-	-		-				0.00	247			0.00	1821
1/22								-		-									
400 1	1	193	1540	9650													_		
800 1	1	194	545	9470 3	3660	PEMN	2750	PENNI	5190	0 De al	aure	nnus i			6.49				
1 003	7	193	1552	9280				Para I	110	Plan	2041	ANUA .		000/		1612	PENV	0.00	
000 1	7	94	1547	10380				-		-		-+		00				2.20	the second se
000 1	7 1	43 1	542	10520				-		-		-		0.60				0.00	
400 1-	7 1			10760			-	-		-		-+		2.00	0-68		_	0.15	

MW-2 @ 1255 (25) PRANNI, MW-5 @ 1300 (1939 PRNV), MW-6 @ 1305 (2770 PRAN) AND MW-7 @ 1310 (15460 PRN) TODE WATER SAMPLES : EFFL- 7/22 @ 1500

GALGLEAN INC. (714) 734-0137

Sits #: LUM PROPERTY Date 1 123/2015 Page 9 of 10 Project Location: 245 8TH STREET City: OAKLAND Operator (a): BERMUNIAL / FAUSTINO Clent: AEI (925-283-6000). Peter M. Cell: 925-285-8286 Well#2: M751 6 Well#3: MW 7 Woll#4: MyN 5 Well#5: MyN 4 Well#6: MyN-1) Well#7: MW-2 Well#1-Mas-1 Wall #8: MW-3 Initial Depth to Groundwater Screen Interval Time Unit Total TOX OX Inlet Stinger Vacuum DTW Vacuum DTW Vacuum DTW Temp. Vacuum Figwrete Conc. Depth "H,O (ft) "H.O. (ff) 'H₂O (11) ("Hq.) (scfm) (decF) (vrncg) (feet) 7/23 DEN 20' OPEN 20' 005N3 201 PER 20 OPEN 20' 190 549 17 106.0 0400 0.00 lt.15 000 H.13 547 10400 3140 PPMV 4450 PPMV 15960 PPMV 2010 PPMV 0800 17 1014 0.00 16.78 3440 PPMV 0.00 18.22 540 17 191 9460 1200 000 16.77 0.10 18.17 17 9590 190 1551 1600 2 00 Hb. 74 0.15 13.15 1548 9830 02 2000 17 0.15 18.11 0.20167 194 1545 10050 :7 2400 D.00 16.68 0.00 18 12 7/20 1-1 193 1538 10190 OUTS 0.00 1/2 72 0.00 18.14 Oston 1535 9940 3310 PPMN 4060 PPMN 1538 PPMN 2270 PPMN 17 ig 1 2.00 16.74 367-0 PPMV 0.00 13 17 17 194 1533 9560 0.00 16.77 1205 0.00 1821 1525 9110 198 17 0.001681 0.00 1825 1400 1532 8946 196 2000 0-00 6-81 0.35 1826 2400 193 153% 3970 17 7.00 14.92 Sa00 18/14 7/25 OUDD 192 1539 9130 17 0.00 h.79 0.00 18.12 1522 8870 3450 PPMN 3810 PPMN 15230 PPMN 2040 PPMN 0.00 H.78 3270 PPMV 0.00 1010 193 0900 111 177 195 1517 8690 1200 0.00 16.77 13.11 194 1511 8770 0.00 16.18 181 1600 17 101 1524 8640 17 0.00 15.76 18:12 2000 193 1532 8510 18.H MOD 0.00 16.TA

Comments

CALCLEAN INC. (714) 734-9137

					Wel#1:	NW-1	Well92:	MN-b	Well 93:	VANI-7	Wei #4:5	WW-5 Well #5	H-WMS	Well #6:	Muj-II	Well #7	MW)-2	Well #8	MW-2
nitial Dep	th to Grou	ndwater			-			-				1. 2		-			1		1. 4
Screen In	terval																		
Time	Unit Vacuum ("Hg.)	Totsl Flowrate (scfm)	TOX Temp	TOX Inlet Conc		Stinger Depth (feet)				1				Vacuum "H ₂ O	(II)	Vacuum "H _t O		Vacuum "H ₂ O	DTW (TL)
7/26	(mg.)	(scan)	(degF)	(ppmv)	Albert.	<u> </u>	Anr	100	(30ml	9.61	or 1	101				Revert	2.01		
	100	Inc	1CLIP	01.10	OPEN	20'	OPEN	40	OPEN	w	OPEN	20'		N		DPEN	201		14.31
400	17	190	1241	8610	2.70		41100		111224	Back 1	lenar	04.41		0.00		0-120		0.20	
200	17		1545	8570	2/10	POWV	3642	PPWN	14410	PPMV	1885	PPWW				2730	PPHN		
	17	191	1541	8450			-							000				0.00	
000	17	190	1550	8100		<u> </u>								000				0.00	
2000	11						<u> </u>							0.00				0.00	臣犯
2400	17	195	1539	8220		-		-						0.00	16.79			0.00	1819
1/27																			
400	17	03	1533	8230										0.00	16.80			0.50	1615
\$00	17			8360	3350	PRIV	3590	BRANN	4510	PANU	2070	PEON				2980	PRAN		
200	17	191	1540	8130										000				20.0	
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ommer	105. 1/1	0	100K	alan VA	4POK	Server	C .	LON	SING	101	1.5 (0)	1120 (82	~ pm	I, M	Mary C	END (e)	125 1	3066	/P.PMV
MAN-2			130 (and and	all.	MW-	26	UD GU	1135	(2)	SC PPM	WIN , (W	6 ENT	2621	MO(3610	PEWNY	AND	,

HIGH VACUUM DUAL PHASE EXTRACTION - WATER METER FIELD DATA SHEET

CALCLEAN INC. (714) 734-9137

Project Location: 2145 8TH STREET

City: CAKLATUR Sile #: LUM PROPERY Dates 7/12/2005 Operator (a): VALTURAVIS/BRANDON/FUNCTINO

Page ____ of ____

Date	Time	Water Meter Reading	Cumulative Amount
7/12	1000	158670	Ø
712	071015	110020	2350
13	0700	103370	4750
	900	167390	8720
7/14	0700	171030	12360
	1900	174400	15130
7/15	0700	176750	18310
7/16	ଣାଧତ	181390	22120
1/17	0807	186.880	282-10
7/18	0500	190010	313417
1/14	0300	193520	34460
7/20	0300	195200	\$7550 40070
	2000	10110	
7/21		201260	42.590
	2000	204250	45580
			-
		1 m	

Date	Time	Water Meter Reading	Cumulative Amount
7/22	0800	206890	48,220
	2000	211850	53,180
7/23	0700	Z14450	55780
	2000	217320	58630
7/24	0800	219940	61270
	2000	222450	63780
7/25	0200	225300	66 630
	2000	227050	69.280
7126	0500	230590	71920
		233030	14360
7/27	1400	239410	50740
-			

Date	Time	Water Meter Reading	Cumulative Amount
-			

APPENDIX D

LABORATORY ANALYTICAL REPORTS



AEI Consultants	Client Project ID: #9485; Vic's Automotive	Date Sampled: 07/27/05
2500 Camino Diablo, Ste. #200		Date Received: 07/27/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 08/02/05
wannut Creek, CA 94397	Client P.O.:	Date Completed: 08/02/05

WorkOrder: 0507468

August 02, 2005

Dear Peter:

Enclosed are:

- 1). the results of 4 analyzed samples from your #9485; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Angela Rydelius, Lab Manager

B	wiccam	ppen 2	Analytica	1, Inc.	1	Telepho Website: www.r	ne : 925-798-1620 Faz necampbell.com E-mail	: 925-798-1622 : main@mccampt	sell.com				
AEI Coi	nsultants		Client Pr Automot	roject ID: #	9485; Vic's		Date Sampled:	07/27/05					
2500 Ca	mino Diablo,	Ste. #200		uve		Date Received: 07/27/05							
Walnut	Creek, CA 94:	507	Client C	ontact: Peter	McIntyre	AcIntyre Date Extracted: 07/30/05							
vv annut v	CICCK, CA 94.	597	Client P	.0.:			Date Analyzed:	07/30/05					
Extraction 1	Gasol method: SW5030B		ge (C6-C12) ^v		rocarbons as methods: SW80211		with BTEX and		Order: 0)507468			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
001A	MW-2	W	9500,a	910	1400	1000	180	960	10	96			
002A	MW-4	w	ND	ND	ND	ND	ND	ND	1	113			
003A	MW-5	W	120,000,a	1100	10,000	19,000	2100	13,000	100	94			
004A	MW-II	w	220,000,a	2500	26,000	37,000	3200	18,000	100	92			
										-			
-									-				
							-		-				
_				_									
		-							-				
						_							
	Limit for DF =1; not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L			
	e reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K			

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

DHS Certification No. 1644

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

NONE

QC Matrix: Water

WorkOrder: 0507468

Amelute	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	112	103	9.05	105	105	0	70 - 130	70 - 130
MTBE	ND	10	109	106	2.53	96.7	109	11.6	70 - 130	70 - 130
Benzene	ND	10	119	112	5.78	110	117	6.32	70 - 130	70 - 130
Toluene	ND	10	114	105	8.61	107	111	2.98	70 - 130	70 - 130
Ethylbenzene	ND	10	115	110	4.05	111	113	2.23	70 - 130	70 - 130
Xylenes	ND	30	100	96.3	3.74	96.7	100	3.39	70 - 130	70 - 130
%SS:	113	10	115	109	5.78	110	114	2.83	70 - 130	70 - 130

BATCH 17354 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507468-001A	7/27/05	7/30/05	7/30/05 10:34 PM	0507468-002A	7/27/05	7/30/05	7/30/05 10:22 PM
0507468-003A	7/27/05	7/30/05	7/30/05 11:05 PM	0507468-004A	7/27/05	7/30/05	7/30/05 11:35 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 applicable or 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.

MQA/QC Officer

Telephor	McCAMPBELL ANALYTICAL INC. 110 2 nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622 Bill To: same											RN Req		103	UNI	AIN D TIM] ⊒	24 HI)	, 72 H	R (
Report To: Peter	McIntyre		B	ill To	: san	ne	-	-	-		-							_		lysis Re	eques		-		Т	Ot	her	C	mme	ents
Company: AEI C				1002 00 1												6														
	Camino Dial	blo, Suite	200													B&F														
	ut Creek, C			E-M	lail: p	omci	ntyr	e@a	eico	onsul	tants	s.com	1	8015)/MTBE		&F/	09													
Tele: (925) 944-2			F	ax: (5)/M		20 E	1820													
Project #: 9482			P	rojec	t Nai	me:	Vic	's A	uto	omo	tine			801.		(552	thoc	260												
Project Location:	245 8th Str	eet, Oakla	and											+ 07		ase	A me	s pc												
Sampler Signatur	e: Alin		m											2/802		Gre	EPA	lethc												
	1/00/001	SAMP		rs	iners		MA	TR	IX			THO		s Gas (60	(8015)	m Oil &	lates by	y EPA II	p											
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Other	lce	HNO ₃	Other	BTEX & TPH as Gas (602/8020 +	TPH as Diesel	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead											
MW-2		7/27/02	F	3	Vat	X					XX	<		×											T					
MAN.4		1		li	1	X				3	×1	<		X																
all E						K			1	2	5)			X																
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Relinquished By:	HU	Date: 7/27/05 Date:	Time: 5-15 p. Time:	1	eived I	1	0	21	Ve	U	U	7				/t°		/		J		PRE		ATIO	N	AS	D&G	MET	ALS	оті

McCampbell Analytical, Inc.

MW-11

Water

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pacheco (925) 79	, CA 94553-5560 98-1620					Work	Order	: 05074	468		ClientI	D: AEI		E	DF: N	0			
Report to:								Bill	to:					1	Request	ed TAT:		5 da	ays
Peter McInty	yre	TEL:	(925) 283-600	00					Diane										
AEI Consult		FAX:	(925) 283-612								ental, In				D			10 5 10 0	
	o Diablo, Ste. #200		No: #9485; Vic's A	Automo	tive							, Ste. #2	200		Date Re	eceived:	07	/27/20	J05
Walnut Cree	ek, CA 94597	PO:							Walnu	it Creek	k, CA 94	1597			Date Pr	rinted:	07	/27/20)05
				1					1	Reques	ted Test	s (See le	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507468-001	MW-2	Water	7/27/05		A					1		1	-						-
0507468-002	MW-4	Water	7/27/05		A													-	
	MW-5	Water	7/27/05		A			-	-	-	-	-							-

A

Test Legend:

0507468-004

1	G-MBTEX_W
6	
11	

2	
7	
12	

7/27/05

3			
8			
13			

4	
9	
14	

5	
0	
5	

Prepared by: Rosa Venegas

Comments:

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



AEI Consultants	Client Project ID: #9482; Vic's Automotine	Date Sampled: 07/11/05
2500 Camino Diablo, Ste. #200		Date Received: 07/11/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/11/05
wallut Cleek, CA 94397	Client P.O.:	Date Completed: 07/11/05

WorkOrder: 0507124

July 11, 2005

Dear Peter:

Enclosed are:

- 1). the results of 1 analyzed sample from your #9482; Vic's Automotine project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly

Angela Rydelius, Lab Manager

McCampbell	Analytical,	Inc.		Telephone : f	South, #D7, Pacheco, CA 9455: 25-798-1620 Fax : 925-798-16 mpbell.com E-mail: main@mcca	22	i
AEI Consultants	Client Pro		D: #94	82; Vic's Da	te Sampled: 07/11/05		
2500 Camino Diablo, Ste. #20	Automoti	ne	_	Da	te Received: 07/11/05		
2300 Cumino Diabio, 500. //20	Client Co	ntact:	Peter M	IcIntyre Da	te Extracted: 07/11/05		
Walnut Creek, CA 94597	Client P.C).:		Da	te Analyzed: 07/11/05		
Extraction Method: SW5030B	Volatile Organic	1.40		d GC/MS (Basic Targe thod: SW8260B		ork Order: (0507124
Lab ID	[0507124-001A			
Client ID				Dis #1			
Matrix				Water			
	0	-	Reporting			1	Reporti
Compound	Concentration *	DF	Limit	Compound	Concentration *	DF	Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAM	ME) ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	5.1	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropa		1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DC		1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND		0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	116 20
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)		1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene		1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5		ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	4-Isopropyl toluene Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5		ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0		1,2,3-Trichlorobenzene	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	1,1,1-Trichloroethane Trichloroethene	ND	1.0	0.5
Frichlorofluoromethane	ND	1.0	0.5		ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	1,3,5-Trimethylbenzene Xylenes	ND	1.0	0.5
ing, emonue	1412				ND	1.0	0.5
0/ 661.		Sur	rogate Re	ecoveries (%)		2.0	
%SS1:	108			%SS2:	9	9	
%SS3:	108						_
Comments:							

* 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 coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



QC SUMMARY REPORT FOR SW8260B

W.O. Sam	ple Matrix:	Water	
----------	-------------	-------	--

QC Matrix: Water

WorkOrder: 0507124

EPA Method: SW8260B	E	xtraction	SW5030	В	Batc	hID: 17073	3	Spiked Sample ID: 0507131-011B				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSI		
tert-Amyl methyl ether (TAME)	ND	10	109	115	5.82	112	107	4.45	70 - 130	70 - 130		
Benzene	ND	10	105	106	0.881	104	104	0	70 - 130	70 - 130		
t-Butyl alcohol (TBA)	ND	50	118	115	2.18	99.7	101	1.34	70 - 130	70 - 130		
Chlorobenzene	ND	10	112	115	2.37	107	109	1.61	70 - 130	70 - 130		
1,2-Dibromoethane (EDB)	ND	10	108	110	1.81	105	106	1.05	70 - 130	70 - 130		
1,2-Dichloroethane (1,2-DCA)	ND	10	116	119	2.41	116	118	1.29	70 - 130	70 - 130		
1,1-Dichloroethene	ND	10	92.5	93.8	1.34	94.9	94.7	0.202	70 - 130	70 - 130		
Diisopropyl ether (DIPE)	ND	10	119	119	0	119	119	0	70 - 130	70 - 130		
Ethyl tert-butyl ether (ETBE)	ND	10	108	112	3.13	110	109	0.969	70 - 130	70 - 130		
Methyl-t-butyl ether (MTBE)	ND	10	106	109	3.21	104	104	0	70 - 130	70 - 130		
Toluene	ND	10	103	103	0	99.2	100	1.24	70 - 130	70 - 130		
Trichloroethene	ND	10	80.1	80.7	0.800	81.2	80.4	0.976	70 - 130	70 - 130		
%SS1:	100	10	93	92	2.01	100	98	2.68	70 - 130	70 - 130		
%SS2:	116	10	99	97	2.53	99	98	1.04	70 - 130	70 - 130		
%SS3:	115	10	110	115	4.21	109	108	1.30	70 - 130	70 - 130		

BATCH 17073 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507124-001A	7/11/05	7/11/05	7/11/05 1:39 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.

DHS Certification No. 1644

NONE

QA/QC Officer

		0	507	124	1																		E	Da	m	e	D	ill	R	US	sh	-
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Report To: Peter	McIntvre		F	Bill To	: san	1e							1					_	Anal	12	-	uest	ALL .			-	T	Othe	er	Co	mmen	its
Company: AEI C								-								0											1					A STORE OF A
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	ut Creek, C	the second s		E-M	Iail: p	mcir	ityre	aaei	icon	sulta	ints.	com		8015)/MTBE		&F/	20															
Tele: (925) 944-2	899		F	ax/ ((925)	944	1-28	95						5)/M		20 E	182															
Project #: 9482	1	A		bjec	LAN	ne:]	Vic	s Au	itor	noti	ne					(55.	sthoo	260	K	2											6	1
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	1	SAMP	LING	S	ners	1	MA	FRI	X			HOE		Gas (602/	(8015)	n Oil &	ates by	EPAn	5	g											Q	Q
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	AIT	Other	Ice	HCI	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead											11	20	MS4
Dis #1		7/11/05	1115	4	401	K	-		1	Y	×		1					-	5	1	-		-	-	1	1	+		-			
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McCampbell Analytical, Inc.

(P) 1.

Report to:

Peter McIntyre

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

1 day

WorkOrder: 0507124 ClientID: AEL Bill to: Requested TAT: Diane All Environmental, Inc.

								t Creek		Ste. #2 597			Date P	rinted:	07	/11/20 /11/20	
							F	Request	ed Tests	s (See le	gend b	elow)					
Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Water	7/11/05		A														
		and an and and and						Matrix Collection Date Hold 1 2 3 4 5	Matrix Collection Date Hold 1 2 3 4 5 6	Matrix Collection Date Hold 1 2 3 4 5 6 7	Matrix Collection Date Hold 1 2 3 4 5 6 7 8	Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9		Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9 10 11	Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9 10 11 12	Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9 10 11 12 13	Matrix Collection Date Hold 1 2 3 4 5 6 7 8 9 10 11 12 13 14

(925) 283-6000

TEL:

Test Lege	<u>nd:</u>				
1	8260B_W	2	3	4	5
6		7	8	9	10
11		12	13	14	15
					Prepared by: Maria Venegas
Commen	nts: 24hr Rusl	1			

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



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/22/05
2500 Camino Diablo, Ste. #200		Date Received: 07/22/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/25/05
wallut Cleek, CA 94597	Client P.O.:	Date Completed: 07/25/05

WorkOrder: 0507387

July 25, 2005

Dear Peter:

Enclosed are:

- 1). the results of 1 analyzed sample from your #9482; Vic's Automotive project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Oal wo

Angela Rydelius, Lab Manager

AEI Consultants 2500 Camino Diablo, Ste. #20	Client Pro						bell.com	
2500 Camino Diablo, Ste. #20	A		D: #94	82; Vic's D	ate Samp	led: 07/22/05		
	Automoti	ve		D	ate Recei	ved: 07/22/05		
	Client Co	ntact:	Peter N	IcIntyre D	ate Extra	cted: 07/23/05		
Walnut Creek, CA 94597	Client P.C).:		D	ate Analy	/zed: 07/23/05		
Extraction Method: SW5030B	Volatile Organic			d GC/MS (Basic Targ	get List)*		Order: 0	507387
Lab ID				0507387-001A				
Client ID				EFFL-7/22				
Matrix				Water				
Compound	Concentration *	DF	Reporting Limit	Compound		Concentration *	DF	Reportin
Acetone	ND	1.0	5.0	the same set of the se		ND		Limit
Acrylonitrile	ND	1.0	2.0	Acrolein (Propenal) tert-Amyl methyl ether (TA	ME	1.0	5.0	
Benzene	ND	1.0	0.5	Bromobenzene	IVIE)	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane		ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromodichioromethane		ND ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0			10	1.0	0.5
n-Butyl benzene	ND			t-Butyl alcohol (TBA)		27	1.0	5.0
		1.0	0.5	sec-Butyl benzene		ND		0.5
ert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide		ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene		ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether		ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane		ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene		ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloroprop	ane	ND	1.0	0.5
,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane		ND	1.0	0.5
,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND		1.0	0.5
,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane		ND	1.0	0.5
,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DO	CA)	ND	1.0	0.5
,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene		ND	0.1	0.5
rans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane		ND	1.0	0.5
,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane		ND	1.0	0.5
,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	_	ND	1.0	0.5
rans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)		ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETB	E)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene		ND	1.0	0.5
Iexachloroethane	ND	1.0	0.5	2-Hexanone		ND	1.0	0.5
sopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene		ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	13	1.0	0.5	Methylene chloride		ND	1.0	0.5
-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene		ND	1.0	0.5
Vitrobenzene	ND	1.0	10	n-Propyl benzene		ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane		ND	1.0	0.5
,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene		ND	1.0	0.5
foluene	ND	1.0	0.5	1,2,3-Trichlorobenzene		ND	1.0	0.5
,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane		ND	1.0	0.5
,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene		ND	1.0	0.5
Frichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane		ND	1.0	0.5
,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene		ND	1.0	0.5
/inyl Chloride	ND	1.0	0.5	Xylenes		ND	1.0	0.5
		Sur	rogate Re	ecoveries (%)				
%SS1:	105			%SS2:	1	101	-	
%SS3:	95			,		101		
Comments:	25							

* 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 coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~ 1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



QC SUMMARY REPORT FOR SW8260B

EPA Method: SW8260B	E	xtraction	SW5030	в	Batc	hID: 17265	5	Spiked Sample ID: 0507384-003B				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD		e Criteria (%)		
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSI		
tert-Amyl methyl ether (TAME)	ND	10	109	105	3.60	98	98.3	0.321	70 - 130	70 - 130		
Benzene	ND	10	113	113	0	109	108	0.243	70 - 130	70 - 130		
t-Butyl alcohol (TBA)	ND	50	92.4	94.2	1.92	82.8	80.2	3.19	70 - 130	70 - 130		
Chlorobenzene	ND	10	115	117	0.967	114	118	3.72	70 - 130	70 - 130		
1,2-Dibromoethane (EDB)	ND	10	103	105	2.46	100	102	1.20	70 - 130	70 - 130		
1,2-Dichloroethane (1,2-DCA)	ND	10	116	117	0.385	111	112	0.394	70 - 130	70 - 130		
1,1-Dichloroethene	ND	10	119	119	0	120	118	1.56	70 - 130	70 - 130		
Diisopropyl ether (DIPE)	ND	10	117	118	0.677	114	112	1.73	70 - 130	70 - 130		
Ethyl tert-butyl ether (ETBE)	ND	10	116	117	0.516	107	103	3.41	70 - 130	70 - 130		
Methyl-t-butyl ether (MTBE)	ND	10	108	112	3.22	101	94.6	6.69	70 - 130	70 - 130		
Toluene	ND	10	107	107	0	104	107	3.46	70 - 130	70 - 130		
Trichloroethene	ND	10	93.3	94.1	0.815	88.3	89.6	I.47	70 - 130	70 - 130		
%SS1:	94	10	105	105	0	101	98	3.33	70 - 130	70 - 130		
%SS2:	93	10	101	101	0	101	101	.0	70 - 130	70 - 130		
%SS3:	89	10	98	98	0	95	94	0.388	70 - 130	70 - 130		

BATCH 17265 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507387-001A	7/22/05 3:00 PM	7/23/05	7/23/05 12:03 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.

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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

DHS Certification No. 1644

QA/QC Officer

oli 0507387



	McCAN					LI	NC.						CHAIN OF CUSTODY RECORD																			
			VENUE SO CO, CA 94											T	UR	N.	AR	10	JNI) T	IME	C		D		X		Ę				
Telepho	ne: (925) 79	8-1620			F	ax:	(925) 798	8-16	22				EL)F F	lean	uire	d?	Г	2 1	les		R	USH No	2	4 HR		48 H	IR		72 HR	5 DAY
Report To: Peter	McIntyre		I	Bill Te	o: san	ne							1			-		and the second second		in the second	Req	uesi	and the second second					Ot	her		Con	iments
Company: AEI C	Consultants															E)																
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	ut Creek, C	CA 94597			Iail: I		_		cons	ultar	nts.c	om		8015)/MTBE		3&F	093															
Tele: (925) 944-2	899			Fax: (15)/1		20 I	28 PG	~	(2												
Project #: 9482	- IN /	1		Projec	et Nai	me: `	Vic's	Au	tom	otin	ie		_	- 80		\$ (55	etho	8260	1	0												
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Sampler Signatur	e: //(/	1			1	-				1 1		lion	-	02/8	-	& GI	(EP	met		q,											1	
	11/	SAMP	LING	- s	Type Containers	1	MAT	RD	K		IETI ESE			Gas (602/8020	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260		1												
SAMPLE ID	LOCATION			ine	otai									H as	esel	leur	/gen	y by	Lead	5							1					
(Field Point Name)	LUCATION	Date	Time	Containers	Col	ar		96				3	he	& TP	s Di	Petro	Oxy	conl	ved	U												
				Co	ype	Water	Soil	Sludge	Other	Ice	HCI	HNO3	Other	BTEX & TPH as	PHa	otal 1	Fuel	TBE		C							1					
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McCampbell Analytical, Inc.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 75	98-1620					Work	Order:	05073	87	0	ClientII): AE	L	H	EDF: N	0			
Report to: Peter McInt	Vre	TEL:	(925) 283-60	00				Bill t	o: Diane					1	Request	ed TAT:		1 (day
AEI Consult 2500 Camir		FAX:	(925) 283-61; No: #9482; Vic's /	21	tive				All Env 2500 C	vironme Camino t Creek	Diablo,	Ste. #	200		Date Re Date Pi			7/22/20 7/22/20	
									F	Request	ed Test	s (See I	egend b	elow)				_	
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507387-001	EFFL-7/22	Water	07/22/2005		A						1						_	-	1

Test Legend:

1	8260B_W
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12	13

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14			

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Prepared by: Rosa Venegas

Comments:

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



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/11/05
2500 Camino Diablo, Ste. #200		Date Received: 07/12/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/15/05
wallut Creek, CA 94397	Client P.O.:	Date Completed: 07/15/05

WorkOrder: 0507146

July 15, 2005

Dear Peter:

Enclosed are:

- 1). the results of 5 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Angela Rydelius, Lab Manager

LY						vebsite: www.	mccampbell.com E-mail	: main@mccampl	ell.com	
AEI C	onsultants		Client P Automo	roject ID: #9	9482; Vic's		Date Sampled:	07/11/05	6	
2500 (Camino Diablo, S	Ste. #200		dive		_	Date Received:	07/12/05		
Walnu	t Creek, CA 945	07	Client C	Contact: Peter	McIntyre		Date Extracted:	07/13/05		
vy annu	a Cicer, CA 343	21	Client P	.O.:			Date Analyzed:	07/13/05		
Extractio	Gasoli on method: SW5030B	ne Rang	e (C6-C12)		rocarbons as methods: SW80211		with BTEX and		Order: ()507146
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Combined Influent	A	69,000,a	ND<800	1900	2000	270	1000	20	116
002A	STACK	A	ND	ND	ND	ND	ND	ND	ī	101
003A	MW-1 (START)	A	60,000,a	ND<500	1700	1500	300	1200	40	96
004A	MW-6 (START)	A	46,000,a	ND<600	1400	1700	150	640	40	110
005A	MW-7 (START)	A	53,000,a	ND<700	1500	1900	170	660	40	93
									-	
							-	_		
							_		1	-
									-	
									-	-
									-	-
										-
	ng Limit for DF =1; ns not detected at or	A	25	2.5	0.25	0.25	0.25	0.25	1	μg/I
	the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager



MO O I MIL

QC SUMMARY REPORT FOR SW8021B/8015Cm

.....

EPA Method: SW8021B/80	15Cm E	xtraction	SW5030	В	Batc	hID: 17092	2	Spiked Sample ID: 0507140-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE	
TPH(btex) [£]	ND	60	103	106	2.85	103	105	1,63	70 - 130	70 - 130	
MTBE	ND	10	90.3	94.1	4.11	91	92	1.12	70 - 130	70 - 130	
Benzene	ND	10	104	111	6.04	105	110	4.36	70 - 130	70 - 130	
Toluene	ND	10	106	112	5.34	104	107	2.74	70 - 130	70 - 130	
Ethylbenzene	ND	10	112	118	4.85	110	113	2.40	70 - 130	70 - 130	
Xylenes	ND	30	93.3	107	13.3	96.3	100	3.74	70 - 130	70 - 130	
%SS:	97	10	110	111	0.534	106	108	1.89	70 - 130	70 - 130	

BATCH 17092 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507146-001A	7/11/05 12:00 PM	7/13/05	7/13/05 4:02 AM	0507146-002A	7/11/05 12:05 PM	7/13/05	7/13/05 2:26 AM
0507146-003A	7/11/05 12:10 PM	7/13/05	7/13/05 4:34 AM	0507146-004A	7/11/05 12:20 PM	7/13/05	7/13/05 5:06 AM
0507146-005A	7/11/05 12:30 PM	7/13/05	7/13/05 7:15 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.

 \pounds 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.

QA/QC Officer

McCAMPBELL ANALYTICAL INC. 110 2 nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Tolophones (025) 709 1620											CHAIN OF CUSTODY RECORD TURN AROUND TIME I I I I I														S						
Telephone: (925) 798-1620 Fax: (925) 798-1622													E	EDF Required? [🗋 Yes			No			4 111		0 IIK	+	A HIX S DA		
Report To: Peter McIntyre Bill To: same																		Analysis Req			que	luest					Othe	er	Con	iments	
Company: AEI (and the second sec										_	_			E																
	Camino Dia		11					_					- (1)		B&					8											
Walnut Creek, CA 94597/ E-Mail: pmcintyre@aciconsultants.com												ATB		S&F	60																
Tele: (925) 944-2	2899	211-			(925)							_	8015)/MTBE		20 F	d 82	~														
Project #: 9482	a can a the	11		Proje	st Nai	me:	Vic'	s Au	itom	otin	e				\$ (55	etho	3260														
Project Location:	11-1	ert, Oakl	and	1	1-	-	1	4	1				020 -		case	Am	poi														
Sampler Signatur	re:		1	Ne	pen	1	4	A	2	2			02/8(& Gr	EP	meth														
	11	SAMP	PLING	ers	ainers	j	MA'	FRE	x		ETH	OD VED	- 0	si (8015)	In Oil	nates by	y EPA	ad													
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	All	Other	Ice	HCI	Other Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead													
Combined In	lugat	7/11	1200	1	tella	ł	7	$\boldsymbol{<}$					X								1	-					-	+	1		
Starta			1205	1	11		1	1					X																		
MUL -) Star	-		1210	1	T			<	1				X	-														-			
MW-6 Stan			1220	1	T			Y	1		-	1	×								1	1						-	-		
MLU-7 Stm			122	11	N/			1	1			1	4			-	-		-		-	-	-	-	-			+			
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A									1																				1	_	
Relinquished By:	Date: 7-126. Date:	Time: 1230 Time:	Received By: Received By: Received By:									ICE/t [®]						,					ATION		O&G		METALS	OTHER			
Reinquished By:	Date:	73/5 Time:	1 10	Refeived By:									GOOD CONDITION V APPROPRIATE HEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PERSERVED IN LA										LAB								

all 0507146

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(-39)	o, CA 94553-5560 98-1620					Work	Order:	05071	46	(lient∏	D: AEI	-	1	EDF: N	NO.			
Report to:								Bill t	0:						Request	ed TAT:		5 da	ays
		TEL: FAX: Projec PO:	(925) 283-600 (925) 283-612 tNo: #9482; Vic's A	21	otive				2500 C	Camino	ntal, In Diablo, , CA 94	Ste. #2	200		Date R Date P	eceived: rinted:		/12/20 /12/20	
			CONTRACTOR OF A DESCRIPTION OF A DESCRIP																
									R	Request	ed Test	s (See I	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	Request 6	ed Test 7	s (See I 8	egend b 9	elow) 10	11	12	13	14	15
Sample ID 0507146-001	ClientSampID Combined Influent	Matrix Air	Collection Date 7/11/05 12:00:00	Hold	1 A	2	3	4		-	ed Test 7	2			11	12	13	14	15
				Hold	1 A A	2	3	4		-	ed Test 7	2			11	12	13	14	15
0507146-001	Combined Influent	Air	7/11/05 12:00:00	Hold		2	3	4		-	ed Test 7	2			11	12	13	14	15
0507146-001 0507146-002	Combined Influent STACK	Air Air	7/11/05 12:00:00 7/11/05 12:05:00	Hold	А	2	3	4		-	ed Test 7	2			11	12	13	14	15

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Rosa Venegas

Comments:



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/12/05
2500 Camino Diablo, Ste. #200		Date Received: 07/13/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/18/05
wallut Cleek, CA 94597	Client P.O.:	Date Completed: 07/18/05

WorkOrder: 0507183

July 18, 2005

Dear Peter:

Enclosed are:

- 1). the results of 8 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Oak le jor

Angela Rydelius, Lab Manager

AEI C	onsultants			roject ID: #9	9482; Vic's		Date Sampled:	07/12/05-0	7/13/0	5			
2500 (Camino Diablo, S	Ste. #200	Automo	tive		Ì	Date Received:	07/13/05					
			Client C	Contact: Peter	McIntyre		Date Extracted:	I: 07/13/05-07/14/05					
Walnu	t Creek, CA 945	97	Client P	.O.:			Date Analyzed:	07/13/05-0	7/14/0	5			
Extractio	Gasolin on method: SW5030B	ne Rang	e (C6-C12)		rocarbons as		with BTEX and		Order: 0	507183			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS			
001A	Comb. Inf 7-12	A	33,000,a	ND<400	910	870	84	300	40	114			
002A	MW-6	A	16,000,a	ND<150	290	620	63	270	20	110			
003A	MW-1	Á.	33,000,a	ND<300	820	1000	140	520	20	115			
004A	MW-7	Α	33,000,a	ND<350	880	1000	97	360	20	113			
005A	Combined 7-13-1	А	170,a	ND	2.0	8.4	3.4	18	1	99			
006A	MW-5 (start)	А	20,000,a	ND<300	720	620	64	240	20	99			
007A	MW-2	A	58,000,a	ND<300	1100	2000	180	730	20	115			
008A	Comb. MW-7,6,1,2,5	A	61,000,a	ND<600	1400	1700	170	640	20	99			
	ng Limit for DF =1; ns not detected at or	A	25	2.5	0.25	0.25	0.25	0.25	1	μg/L			
	the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K			

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

O.C. / Angela Rydelius, Lab Manager



W.O.	Sample	Matrix:	Air
------	--------	---------	-----

QC Matrix: Water

WorkOrder: 0507183

EPA Method: SW8021B	8015Cm E	xtraction	SW5030B BatchID: 17111					Spiked Sample ID: 0507198-004A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE			
TPH(btex) [£]	ND	60	111	108	3.48	105	106	1.73	70 - 130	70 - 130			
MTBE	ND	10	92.2	91.2	1.03	94.8	103	8.51	70 - 130	70 - 130			
Benzene	ND	10	94.4	94.4	0	102	107	4.92	70 - 130	70 - 130			
Toluene	ND	10	101	98.7	2.47	105	109	3.79	70 - 130	70 - 130			
Ethylbenzene	ND	10	110	109	0.745	112	115	2.97	70 - 130	70 - 130			
Xylenes	ND	30	100	100	0	100	103	3.28	70 - 130	70 - 130			
%SS:	116	10	101	102	0.742	108	108	0	70 - 130	70 - 130			

NONE

BATCH 17111 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507183-001A	7/12/05	7/13/05	7/13/05 10:01 PM	0507183-002A	7/13/05 8:00 AM	7/13/05	7/13/05 10:34 PM
0507183-003A	7/13/05 8:10 AM	7/13/05	7/13/05 11:06 PM	0507183-004A	7/13/05 8:20 AM	7/13/05	7/13/05 11:39 PM
0507183-005A	7/13/05 8:30 AM	7/14/05	7/14/05 7:13 PM	0507183-006A	7/13/05 9:00 AM	7/14/05	7/14/05 12:44 AM
0507183-007A	7/13/05 9:10 AM	7/14/05	7/14/05 1:16 AM	0507183-008A	7/13/05 9:20 AM	7/14/05	7/14/05 1:48 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 = 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.

J_QA/QC Officer

all 0507183

					TICAL INC.											CH	A	N	OF	CI	JS	го	DY	R	E(COI	RI)	-	,			
		110 2 nd A PACHE	VENUE SO CO, CA 94	OUTH, 553-55	, #D7 60									1	UR	RN	AF	10	UNI	DT	IM	E					N						W.
Telepho	ne: (925) 79					Fax: ((92	5) 79	8-1	622								10						USF		24 H	IR	4	8 HR	1	72 H	R	DAY
Report To: Peter	McIntyre		ī	Bill To	0' 69F	10	-	-					-	E.	DF I	Reg	uire		-		res s Re		1000	No)		_		04		Ta		
Company: AEI (JIII I	0. 3al	ne	-				-		-	-				-	Ana	uysi	s Re	ques	1	T	1		+		Othe	r		mm	ents
	Camino Dia	blo, Suite	200						_		-		-			&F)																	
	ut Creek, C			E-N	Iail:	omein	tyre	@ae	icon	sulta	ants.	com		TBE		&F/B	0																
Tele: (925) 944-2	2899		F	Fax: (8015)/MTBE		0 E	826																
Project #: 9482		1		rojec	t Na	Name: Vic's Automotine					801		(552	thod	260																		
Project Location:	- topo to	eet, Oakl	and		1	4					20+		case	A me	28 po																		
Sampler Signatur	re: Ma	Al	9	Z	le	27								05/80		c Gre	EPA	nethe															
	1	SAME	PLING	6	suite	T	AIA'	TRI	X			CHOI ERVI		Gas (602/8020	8015)	Oil &	tes by	EPA n															
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Container	Water	Soil	Air	Other	Ice	HCI	HNO ₃	Other	BTEX & TPH as (TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead														
Combined Inf 7-12		7/12/05	2400	1	ted			X	1	t	1		-	X		-		-	-		+	1	-			-	+	+	+	+	+		
MW-6		7/13/05	0800	1	ted		1	X	-	1				X	1.5						-	1		1		-	-		-	+	-		
MW-1		7/13/05	0810	1	ted			X		1			-	X						-	1	1	1	1		-	+	-	+	+	-		
MW=1		7/13/05	0820	1	ted			X	+	1			-	X					-	-	-	+	-	-		-	+	-			-	-	
Combined 7-13-1		7/13/05	0830	1	ted			X		1				X						-		+	-	-		-	-	-		+	+		
MW-5 (start)		7/13/05	0900	1	ted		1	X	+	+	-			X					-			+	-	-		-	-		-	+	-		
MW-2		7/13/05	0910	1	ted		-	X	+	+			1	X	-	-	-	-	-	-	-	+	-	-		-	-+	-		+	-	-	
Combined (start) MW-7, 6, 1, 2, 5		7/13/05	0920	1	ted			X						X				+															
																-											+						
Relinquished By		Data	72	P																								-				_	_
Relinquished By	Ma	Date: <u>7/13/04</u> Date:	Time: <u>1315</u> Time:	2	ived B	lui	9	An	~	-			_	(CE/t GOO	DC					/		APP	RO	PRI	TIO	N_	DAS	0&G	:	META	s	OTHER
Relinquished By:					IEAI DECI						AB_	_	CON _ PI			RS_ ED I	IN L	AB		_													

A

110 Second Avenue South, #D7 Pacheco, CA 94553-5560

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

6.3.34	.o, CA 94553-5560 798-1620					Work	Order	: 05071	183	(ClientII): AEL		F	DF: N	0			
Report to:								Bill t	:0:					1	Request	ed TAT:		5 da	ays
Peter McIn	tyre	TEL:	(925) 283-600	00					Diane										
AEI Consu 2500 Cam	ltants ino Diablo, Ste. #200		(925) 283-612 No: #9482; Vic's A		tive				2500 C	Camino	ntal, Ind Diablo,	Ste. #2	200			eceived:		//13/20	
Walnut Cre	eek, CA 94597	PO:							vvainu	t Creek	, CA 94	597			Date Pr	rinted:	07	//13/20	J05
									F	Request	ed Test	s (See le	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507183-001	Comb. Inf 7-12	Air	07/12/2005		A	1		1											
0507183-002	MW-6	Air	07/13/2005	E	А				-										
0507183-003	MW-1	Air	07/13/2005		А														
0507183-004	MW-7	Air	07/13/2005		А						· · · · · ·								
0507183-005	Combined 7-13-1	Air	07/13/2005		А		Linc	1000						1				1	
0507183-006	MW-5 (start)	Air	07/13/2005		А														
0507183-007	MW-2	Air	07/13/2005		А		1												
0507183-008	Comb. MW-7,6,1,2,5	Air	07/13/2005		A														

Test Legend:

1	G-MBTEX_AIR
6	
11	

2		
7		
12	1	

3	
8	
13	

4	
9	
14	

5		
10		
15		

Prepared by: Rosa Venegas

Comments:



AEI Consultants	Client Project ID: #3; Lum's 8th St and	Date Sampled: 07/14/05
2500 Camino Diablo, Ste. #200	Alices St. Oakland	Date Received: 07/14/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/19/05
wallut Creek, CA 94397	Client P.O.:	Date Completed: 07/19/05

WorkOrder: 0507210

July 19, 2005

Dear Peter:

Enclosed are:

1). the results of 6 analyzed samples from your #3; Lum's 8th St and Alices St. Oakland project,

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Yours truly

Angela Rydelius, Lab Manager

AEI Con	sultants				3; Lum's 8th S	t and	Date Sampled:	07/14/05		
2500 Ca	mino Diablo,	Ste. #200	Alices S	St. Oakland			Date Received:	07/14/05		
Walnut	Carala CA 04	507	Client C	Contact: Peter	McIntyre		Date Extracted:	07/14/05-0	7/15/0	5
wainut (Creek, CA 94	397	Client P	2.0.:			Date Analyzed:	07/14/05-0	7/15/0	5
Extraction r	Gasol nethod: SW5030B		e (C6-C12)		rocarbons as nethods: SW80211		with BTEX and		Order: 0	507210
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	A	24,000,a	ND<180	610	990	130	490	20	103
002A	MW-2	A	37,000,a	ND<400	940	1300	130	550	20	97
003A	MW-5	А	53,000,a	ND<150	920	2400	280	1100	20	113
004A	MW-6	А	18,000,a	ND<110	380	1000	140	620	20	110
005A	MW-7	А	52,000,a	ND<500	1300	1600	150	630	20	110
006A	Combined	A	49,000,a	ND<400	1200	1600	130	490	20	111
			_							
	Limit for DF =1; not detected at or	А	25	2.5	0.25	0.25	0.25	0.25	1	μg/I
	e reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager



W.O. Sample Matrix: Air

QC Matrix: Water

WorkOrder: 0507210

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	107	108	0.804	104	105	1.61	70 - 130	70 - 130
MTBE	ND	10	94.7	84.3	11.6	95.9	97.8	1.92	70 - 130	70 - 130
Benzene	ND	10	94.1	90.3	4.15	105	110	4.69	70 - 130	70 - 130
Toluene	ND	10	99	97.1	1.92	107	111	3.83	70 - 130	70 - 130
Ethylbenzene	ND	10	108	109	0.644	114	117	2.62	70 - 130	70 - 130
Xylenes	ND	30	100	100	0	100	100	0	70 - 130	70 - 130
%SS:	100	10	101	97	3.46	109	112	2.46	70 - 130	70 - 130

NONE

BATCH 17129 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507210-001A	7/14/05	7/14/05	7/14/05 8:58 PM	0507210-002A	7/14/05 9:10 AM	7/14/05	7/14/05 9:32 PM
0507210-003A	7/14/05 9:30 AM	7/14/05	7/14/05 7:47 PM	0507210-004A	7/14/05 9:40 AM	7/14/05	7/14/05 8:22 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.

() (QA/QC Officer



W.O. Sample Matrix: Air	
EPA Method: SW8021B/8015Cm	Extraction:

QC Matrix: Water

WorkOrder: 0507210

EPA Method: SW8021B/	8015Cm E	xtraction	SW5030	в	Batc	hID: 17138	3	Spiked Sample ID: 0507231-004A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)			
, many to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSI			
TPH(btex) [£]	ND	60	105	105	0	107	104	2.50	70 - 130	70 - 130			
MTBE	ND	10	87.3	88.7	1.58	92.8	90.1	2.97	70 - 130	70 - 130			
Benzene	ND	10	105	105	0	106	102	4.32	70 - 130	70 - 130			
Toluene	ND	10	110	110	0	111	107	3,57	70 - 130	70 - 130			
Ethylbenzene	ND	10	118	118	0	119	115	3.39	70 - 130	70 - 130			
Xylenes	ND	30	107	107	0	107	100	6.45	70 - 130	70 - 130			
%SS:	97	10	109	109	0	111	109	1.41	70 - 130	70 - 130			

BATCH 17138 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507210-005A	7/14/05 9:50 AM	7/14/05	7/14/05 11:11 PM	0507210-006A	7/14/05 9:00 AM	7/15/05	7/15/05 1:21 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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.

Talast		110 2 nd AV PACHEC	ANAI VENUE SC CO, CA 94	UTH,	ICA #D7 60		C,						'n	UR	N	AR									E	7					5-0A)
I elepho	ne: (925) 79	8-1020			F	'ax: (9	125)	798-	162	22			E	DF R	leq	uire	1?	Ę	Y	s	(No		67 I		-	9 1114		/ & ****	- de lista i
Report To: Peter	and the second s		B	ill To	: san	ae						_					-	Anal	ysis	Req	uest						-	Other	r	Com	nents
Company: AEI C					_							_			(H)																
	Camino Dia		200	-					-	-		-	LI]		/B&																
	ut Creek, C	A 94597				mcinty		and a statement	nsu	ltants	.com	_	8015)/MTBE		E&F	~				1		EPA 625 / 8270 / 8310									
Tele: (925) 944-2	surgery with the second s					944-	1		-			_	15)/1		201	18.1				1		8/0									
Project #: 3			P	rojec	t Nar	ne: /	i	m							(55	s (4		0	1			827								Transfer of	
Project Location:	STh	St ci	110, 1	74	605	5	1.		(241	de.	r!	20+		case	pon		802	NEN	-		25 /			(010)						
Sampler Signatur	e: Adr	st a	NICI	0					our gest	-	-	_	12/80		Gn	ocar	8	02 /	s Ol			A 6			2/60						
		SAMP			lers	M	ATI	RIX	1	MET PRES			Gas (60	8015)	liO 1	Hydr		EPA 6	PCB'			by EP			1/239.						
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Air	Sludge	ULART	lee HCI	HNO3	Other	BTEX & TPH as Gas (602/8020 +	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 PCB'S ONLY	EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI					
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MW		0 990	1		1		X						X																		
NWS		0930					X						X																		
MW-6		0940					X		1				X				1														
MW-5 MW-6 MW-7 Combined	(950		-	1		X		1			-	X	-			1									1	-	1	1-		
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A.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560

CHAIN-OF-CUSTODY RECORD

Page 1 of

(925) 7	798-1620					Worl	Order	: 050	7210		ClientI	D: A	EL		EDF: 1	NO			
Report to: Peter McIn	tvre	TEL:	(925) 283-600	0				Bi	l to: Diane	2					Reques	ted TAT:		5 d	ays
AEI Consul 2500 Cami		FAX:	(925) 283-612 (925) 283-612 stNo: #3; Lum's 8th	21	I Alices	s St. Oa	akland		All En 2500	ivironm Camin	ental, Ir o Diablo k, CA 9	, Ste.	#200			eceived: rinted:		/14/2(/14/2(
0										Reques	sted Tes	ts (See	legend	below)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507210-001	MVV-1	Air	7/14/05		A														
0507210-002	MW-2	Air	7/14/05 9:10:00 AM	17	A			1											
0507210-003	MW-5	Air	7/14/05 9:30:00 AM		A														
0507210-004	MW-6	Air	7/14/05 9:40:00 AM	T	A														
0507210-005	MW-7	Air	7/14/05 9:50:00 AM	n T	A											-			
0507210-006	Combined	Air	7/14/05 9:00:00 AM	-	A											1			

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Maria Venegas

Comments:



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 0	07/14/05
2500 Camino Diablo, Ste. #200		Date Received: 0	07/15/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 0	07/20/05
wannut Cicek, CA 94597	Client P.O.:	Date Completed: 0	07/20/05

WorkOrder: 0507227

July 20, 2005

Dear Peter:

Enclosed are:

- 1). the results of 7 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours t

Angela Rydelius, Lab Manager

A	McCamp	bell A	Analytica	al, Inc.		Telepho	enue South, #D7, Pacheo ne : 925-798-1620 Fax nccampbell.com E-mail:	: 925-798-1622					
AEI C	Consultants			Project ID: #9	9482; Vic's		Date Sampled:	07/14/05-0	7/15/0	5			
2500 (Camino Diablo, S	Ste. #200	Automo	otive		ĺ	Date Received:	07/15/05					
Walm	it Creek, CA 945	07	Client C	Contact: Peter	McIntyre		Date Extracted:	ed: 07/15/05					
vv ann	II CIEEK, CA 945	91	Client F	2.0.:			Date Analyzed:	07/15/05					
Extractio	Gasoli	ne Rang	e (C6-C12)		rocarbons as methods: SW80211		with BTEX and		Order: 0	507227			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S			
001A	7/14/05 Com 2100	А	35,000,a	ND<600	850	1300	110	350	20	94			
002A	7/15/05 Com 0900	A	47,000,a	ND<800	1200	1900	170	580	20	118			
003A	MW-1	A	25,000,a	ND<300	660	1200	200	730	20	99			
004A	MW-2	A	32,000,a	ND<600	920	1400	120	470	20	98			
005A	MW-5	A	27,000,a	ND<150	520	1700	270	980	20	108			
006A	MW-6	A	21,000,a	ND<210	390	1100	150	590	20	103			
007A	MW-7	A	55,000,a	ND<50	1400	1900	170	620	20	96			
			-										
									_	-			
									-				
							_		-				
			-										
						1							
	ng Limit for DF =1; ns not detected at or	A	25	2.5	0.25	0.25	0.25	0.25	1	μg/L			
	the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K			

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager



W.O. Sample M	latrix: Air
---------------	-------------

QC Matrix: Water

WorkOrder: 0507227

	1					T	- Lines	1.		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	105	105	0	107	104	2.50	70 - 130	70 - 130
MTBE	ND	10	87.3	88.7	1.58	92.8	90.1	2.97	70 - 130	70 - 130
Benzene	ND	10	105	105	0	106	102	4.32	70 - 130	70 - 130
Toluene	ND	10	110	110	0	111	107	3.57	70 - 130	70 - 130
Ethylbenzene	ND	10	118	118	0	119	115	3.39	70 - 130	70 - 130
Xylenes	ND	30	107	107	0	107	100	6.45	70 - 130	70 - 130
%SS:	97	10	109	109	0	111	109	1.41	70 - 130	70 - 130

BATCH 17138 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507227-001A	7/14/05 9:00 AM	7/15/05	7/15/05 4:02 PM	0507227-002A	7/15/05 9:00 AM	7/15/05	7/15/05 4:32 PM
0507227-003A	7/15/05 9:05 AM	7/15/05	7/15/05 5:03 PM	0507227-004A	7/15/05 9:10 AM	7/15/05	7/15/05 5:33 PM
0507227-005A	7/15/05 9:15 AM	7/15/05	7/15/05 6:33 PM	0507227-006A	7/15/05 9:20 AM	7/15/05	7/15/05 7:03 PM
0507227-007A	7/15/05 9:25 AM	7/15/05	7/15/05 8:03 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.

	McCAN	IPBELI	L ANAI	YT	ICA	LI	NC											(CHAIN	OF	CUST	ΓΟΙ)YI	RE	COF	RD		
		110 2 nd A PACHEO	VENUE SC CO, CA 945											Т	UR	N	AR	O	UND TIM	ME					\Box_{i}			
Telephon	ne: (925) 798					'ax:	(92	5) 7	98-1	622			2					10	_		RUSH		4 HR	4	8 HR		72 HR	5 D.
Report To: Peter	McIntyre		B	ill To	o: san	ne	-	-	-		-		-	EI	DF H	Req	uire	the second s	Ye Analysis F		No No			-	Other	r	I Con	iment
Company: AEI (-			1	~			rinary 515 k	I I			1			T	Con	ment
	Camino Dia	blo, Suite	200											E		3&F												
Waln	ut Creek, C	A 94597		E-N	Iail: p	omci	ntyre	e@a	eicor	isult	ants.	com	ı	8015)/MTBE		&F/J	20											
Tele: (925) 944-2	899	/	F	ax: (925)	94	4-28	395						15)/		20 E	1 82(1	
Project #: 9482		/		rojee	t Na	ne:	Vic	's A	utor	noti	ine		_	+ 80		(55)	etho	260										
Project Location:		eet, Oakk	and	-	4	-	<u></u>		_					9020		ease	A m	s po										
Sampler Signatur	e: Ala	m/	1	4	1	-	And the part of the			-			-	602/8		k Gr	EP	meth										
		SAMP	LING	s	lers		MA	TR	IX		ME1 RESI			Gas (602/8020	(8015)	0il a	tes by	EPA										
CAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	lce	HCI	HNO ₃	Other	BTEX & TPH as	TPH as Diesel (Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead									
7/14/05 Combined 2100		7/14/05	2100	1	ted			X		+				X		-	-	-					+		+	+	\vdash	
7/15/05 Combined 0900		7/15/05	0900	1	ted			X		+				X									-		_	+	+	
MW-1		7/15/05	00905	1	ted			X	-	+	-			X		-		-						-	_	+		
MW-2		7/15/05	00910	1	ted		-	X	-	+	-		-	X	-	-	1	-					_	-		+	-	
MW-5		7/15/05	0915	1	ted			X	-	+	-	-		X	-	-	1	-					-	\vdash		+		
MW-6		7/15/05	0920	1	ted			X		+	-	-		X		-							_		_	-		
MW-7		7/15/05	0925	1	ted			X		+	1	-		X		-		-								+	1-	
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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620				Worl	kOrder	: 0507	227	C	lientIE): AE	L	1	EDF: N	0			
Report to:							Bill	to:						Request	ed TAT		5 d	ays
Peter McInt	tyre	TEL:	(925) 283-6000					Diane						rioquou	ou min		54	ays
	tants no Diablo, Ste. #200 eek, CA_94597	FAX: Projec PO:	(925) 283-6121 tNo: #9482; Vic's Automo	otive				All Env 2500 (vironmei Camino t Creek,	Diablo,	Ste. #.	200		Date R Date Pi	eceived: rinted:		/15/20	
								1	Requeste	d Tests	(See I	egend b	elow)		1.04	-		
Sample ID	ClientSampID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507227-001	7/14/05 Com 2100	Air	7/14/05 9:00:00 AM	A														
0507227-002	7/15/05 Com 0900	Air	7/15/05 9:00:00 AM	A														
0507227-003	MW-1	Air	7/15/05 9:05:00 AM	A														
0507227-004	MW-2	Air	7/15/05 9:10:00 AM	A														
0507227-005	MW-5	Air	7/15/05 9:15:00 AM	A					-									
0507227-006	MW-6	Air	7/15/05 9:20:00 AM	A	8													
0507227-007	MW-7	Air	7/15/05 9:25:00 AM	A														

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Maria Venegas

Comments:



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/19/05
2500 Camino Diablo, Ste. #200		Date Received: 07/19/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/25/05
wallut Creek, CA 94557	Client P.O.:	Date Completed: 07/25/05

WorkOrder: 0507277

July 25, 2005

Dear Peter:

Enclosed are:

- 1). the results of 6 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

2 lew for

Angela Rydelius, Lab Manager

	McCamp	obell A	Analytica	al, Inc.		Telepho	venue South, #D7, Pache me : 925-798-1620 Faz mccampbell.com E-mail	x: 925-798-1622					
AEI C	onsultants			Project ID: #9	9482; Vic's		Date Sampled:	07/19/05					
2500 (Camino Diablo, S	Ste. #200	Automo	otive			Date Received:	07/19/05					
W. 1	10 1 01 045	07	Client C	Contact: Peter	McIntyre		Date Extracted:	d: 07/19/05-07/20/05					
want	t Creek, CA 945	97	Client F	P.O.:			Date Analyzed:	07/19/05-0	7/20/0	5			
Extractio	Gasoli on method: SW5030B	ne Rang	e (C6-C12)		rocarbons as methods: SW80211		with BTEX and		Order: 0)507277			
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S			
001A	7/19/05 Com 2100	A	38,000,a	ND<300	880	1500	170	660	20	106			
002A	MW-1	A	3100,a	ND<17	37	240	82	380	6.7	110			
003A	MW-2	A	6500,a	ND<50	230	460	65	280	20	103			
004A	MW-5	A	14,000,a	ND<50	250	750	140	630	20	116			
005A	MW-6	A	17,000,a	ND<100	320	870	110	500	20	105			
006A	MW-7	A	58,000,a	ND<500	1400	2000	190	800	20	106			
_													
ND mea	ng Limit for DF =1; ns not detected at or	А	25	2.5	0.25	0.25	0.25	0.25	1	μg/L			
above	the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K			

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

O. Color Angela Rydelius, Lab Manager



EPA Method: SW8021B/	8015Cm E	Extraction	SW5030	в	Batc	hID: 17203	3	Spiked San	nple ID: 050	7291-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
, many to	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	99.3	92.2	7.43	95.9	95.7	0.301	70 - 130	70 - 130
MTBE	ND	10	113	105	7.78	95.6	101	5.03	70 - 130	70 - 130
Benzene	ND	10	92.7	93.1	0.444	92.8	94.7	2.02	70 - 130	70 - 130
Toluene	ND	10	95.3	95.6	0.274	98	99.5	1.51	70 - 130	70 - 130
Ethylbenzene	ND	10	99.9	100	0.320	103	105	1.72	70 - 130	70 - 130
Xylenes	ND	30	103	100	3.28	107	107	0	70 - 130	70 - 130
%SS:	119	10	98	96	2.07	97	97	0	70 - 130	70 - 130

BATCH 17203 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507277-001A	7/19/05 7:20 AM	7/19/05	7/19/05 5:31 PM	0507277-002A	7/19/05 7:23 AM	7/20/05	7/20/05 11:36 AM
0507277-003A	7/19/05 7:25 AM	7/19/05	7/19/05 7:13 PM	0507277-004A	7/19/05 7:30 AM	7/19/05	7/19/05 7:47 PM
0507277-005A	7/19/05 7:35 AM	7/19/05	7/19/05 8:21 PM	0507277-006A	7/19/05 7:40 AM	7/19/05	7/19/05 10:34 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.

QA/QC Officer

	McCAN			LYT	ICA	1 IN	VC.						Γ				1	CH	A	IN (OF	CU	ST	OD	YF	REC	COF	RD			
		110 2 nd A PACHE	VENUE S CO, CA 94										1	ΓU	RN	AF				IMI					1:					Ę	J
Telepho	ne: (925) 79					ax: (925	798	-16	522			1		-								JSH	24	HR	48	BHR		72 HR	51	DAY
Report To: Peter	McIntyre		1	Bill To		20	_	_	-		-		E	DF	Reg	uire	_	-		Yes			No						La		_
Company: AEI (J II 10	J. 541	ne			-	-	_		+	1	1		-	Ana	iysi	s Rec	ques	t	-	-			Other	r	Con	nmen	IS
	Camino Dia	blo. Suite	200										1		&F)																
	ut Creek, C			E-N	fail:	omcin	tyre	aeico	ons	ultan	its.co	om	8015)/MTBE		LE/B	0															
Tele: (925) 944-2	899	1	I	ax:									5)/M		0 E8	826															
Project #: 9482		1	1	Projec	et Na	ne: V	'ic's	Auto	om	otine	e				552	thod	09														
Project Location:		eet, Oakl	and	1	1								120 +		ase (me	d 82														
Sampler Signatur	e:	The	-1	11		2							02/8(Gre	EPA	lethc												1		
	1-1	(SAME	LING	< s	siers	N	141	RIX				IOD RVED		8015)	Oil &	tes by	EPA II														
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other	lce	HCI	HNO ₃ Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead													
7/19/05 Combined 2100		7/19/05	0720	1	ted		2	K					X	-						+	1	\square	-		+	+	+	+	\vdash		_
MW-1		7/19/05	0723	1	ted		2		-		-		X	-		-	-	-	+	-	-		-	-			-	+		_	
MW-2		7/19/05	0725	1	ted		2		-		-		X	-	-	-	-		+	-	+		-	-		-		-	-		_
MW-5		7/19/05	0730	1	ted		7		-	-	-		X	-		-	-		+		-			-		-		+			
MW-6		7/19/05	0735	1	ted		X		-		+		X	-		-	-	-	+	_	-		_		+		-	-	-	_	_
MW-7		7/19/05	0740	1	ted		X		-		+		X	-		-	-		+	_	-	$\left \right $	-	-		-		+-		_	_
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1110	1	7-19-03	1400	11	In	Gn	0	14	10	A	10)			1	20	0)			_	_			vo	AS	0&G	IN	TETALS	оті	IER
Relinquished By:	1	Date: /	Time:	Rece	ived B	y:	-1	2	1 L		-			CE/		ON	orr	ION		1				ATIO)N		/	-			
Khust	AU	119/05	235,	M	Un	the	-	12	X	-								BSE	T	-			OPR [AIN]	IATE ERS	1	/	/				
Religguished By:	1/	Date:	Time:		ived B			-										ED I		AB				VED	INL	AB					

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620					Work(Order:	0507	277		Clier	tID:	AEL		F	EDF: N	0			
Report to:								Bill	to:							Request	ed TAT:		5 da	ays
Peter McInt	yre	TEL:	(925) 283-6000	С					Diane	;										
	tants no Diablo, Ste. #200 ek, CA 94597	FAX: Projec PO:	(925) 283-6121 ctNo: #9482; Vic's Au		live				2500	Camir	nental no Dial ek, CA	olo, St		:00		Date Re Date Pr	eceived: rinted:		7/19/20 7/19/20	
										Reque	ested T	ests (S	See le	gend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	-	7	8	9	10	11	12	13	14	15
0507277-001	7/19/05 Com 2100	Air	7/19/05 7:20:00 AM		A															
0507277-002	MW-1	Air	7/19/05 7:23:00 AM		A															
0507277-003	MVV-2	Air	7/19/05 7:25:00 AM		А															
0507277-004	MVV-5	Air	7/19/05 7:30:00 AM		A															
0507277-005	MVV-6	Air	7/19/05 7:35:00 AM		А															
0507277-006	MW-7	Air	7/19/05 7:40:00 AM		A															

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Maria Venegas

Comments:



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/22/05
2500 Camino Diablo, Ste. #200		Date Received: 07/22/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 07/28/05
wannut Cieck, CA 94397	Client P.O.:	Date Completed: 07/28/05

WorkOrder: 0507386

July 28, 2005

Dear Peter:

Enclosed are:

- 1). the results of 6 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Out lew for

Angela Rydelius, Lab Manager

	McCam	pbell A	analytica	al, Inc.	,	Telepho	venue South, #D7, Pache one : 925-798-1620 Fax mccampbell.com E-mail	: 925-798-1622		
AEI Con	sultants			Project ID: #9	9482; Vic's		Date Sampled:	07/22/05		
2500 Car	nino Diablo,	Ste. #200	Automo	otive			Date Received:	07/22/05	2	
W-loot C	hards CA 04	507	Client C	Contact: Peter	McIntyre		Date Extracted:	07/23/05-0	7/24/0	5
walnut C	reek, CA 94	597	Client F	2.0.:			Date Analyzed:	07/23/05-0	7/24/0	5
Extraction m	Gasol ethod: SW5030E		e (C6-C12)		rocarbons as		with BTEX and		Order: 0	507386
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S
001A	Combined	A	38,000,a	ND<300	1200	2000	270	1000	20	102
002A	MW-1	A	17,000,a	ND<100	470	920	100	460	40	106
003A	MW-2	A	15,000,a	ND<100	580	990	88	380	40	118
004A	MW-5	A	16,000,a	ND<50	380	990	190	920	20	99
005A	MW-6	A	14,000,a	ND<130	300	870	140	600	20	117
006A	MW-7	А	53,000,a	ND<800	1400	2700	320	1200	67	92
							_			
		-								
	imit for DF =1; ot detected at or	А	25	2.5	0.25	0.25	0.25	0.25	1	μg/L
above the	reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644



EPA Method: SW8021B/	/8015Cm E	Extraction	SW5030	в	Batc	hID: 17284	k	Spiked San	nple ID: 050	7384-003A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	109	114	4.74	114	114	0	70 - 130	70 - 130
MTBE	ND	10	102	113	10.4	116	112	3.29	70 - 130	70 - 130
Benzene	ND	10	104	110	6.25	118	117	0.919	70 - 130	70 - 130
Toluene	ND	10	103	110	5.95	115	115	0	70 - 130	70 - 130
Ethylbenzene	ND	10	107	113	5.49	123	122	0.744	70 - 130	70 - 130
Xylenes	ND	30	96	100	4.08	110	107	3.08	70 - 130	70 - 130
%SS:	98	10	106	107	1.03	114	111	2.91	70 - 130	70 - 130

BATCH 17284 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507386-001A	7/22/05 12:40 PM	7/23/05	7/23/05 1:46 PM	0507386-002A	7/22/05 12:45 PM	7/23/05	7/23/05 5:50 PM
0507386-003A	7/22/05 12:50 PM	7/23/05	7/23/05 7:56 PM	0507386-004A	7/22/05 12:55 PM	7/23/05	7/23/05 3:17 PM
0507386-005A	7/22/05 12:55 PM	7/23/05	7/23/05 1:45 PM	0507386-006A	7/22/05 1:00 PM	7/24/05	7/24/05 7:12 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 = 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.

A____QA/QC Officer

	McCAN					LI	NC										(CH	AI	NO	OF	CU	ST	ODI	R	ECO	RD		1
		110 2 nd A	VENUE SC CO, CA 94										1	UF	IN	AR				IM									-at
Telepho	ne: (925) 79		LU, CA 94	000-00		ax:	(925	5) 79	8-16	22												RI	JSH	24 H		48 HR		72 HR	5 DAY
								-					E	DFI	Red	uire			1)			X	No		_				
Report To: Peter		_	E	Bill T	o: sai	ne			14.7								-	Ana	lysis	s Ree	quest	t			_	Othe	r	Com	ments
Company: AEI C	the second s	11 6 4	200								_		1		(H)														
	Camino Dia		1	ET B	. · · · ·		a a contractor	0		1			3E		Oil & Grease (5520 E&F/B&F)									1					
Tele: (925) 944-2	ut Creek, C	A 94591	1		Iail:	-			icons	ultant	S.CC	om	MTH		E&I	260													
Project #: 9482	6999	- 11			(925)	_							8015)/MTBE		520	7 Fuel Oxygenates by EPA method 8260	0												
Project Location:	345 oth de	Doll	F	roje	et Na	me:	VIC'	s Al	itom	oune			+		se (5	neth	MTBE only by EPA method 8260											1	
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Samplet Signatu	e. / /			T	T	T			-	M	TH	on	602/8	0	& G	y El	met											1	
	1	SAMP	LING	100	ers		MA	ΓRI	X			VED	Jas (3015	Oil	tes b	EPA											1	
SAMPLE ID	\cup			ner	tair								as	sel (eum	gena	by	cad										1	
(Field Point Name)	LOCATION	D		Containers	Type Containers								BTEX & TPH	TPH as Diesel (8015)	Total Petroleum	DXYE	ylnc	Dissolved Lead											
		Date	Time	Con	pe	Water	-	Air	Other	F	- 5	Other Other	XX	I as	al Po	lel (BE	solv										1	
				#	Ty	M	Soil	Air	Of O	Ice	HCI	0 H	BTE	TPI	Tot	7 F	TM	Dis											
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NUC-1		111	1245)	11			×					×																
Mies-2			1250	1	11		5	e .	1				×																
MW-5			1255	1	11			he				1	X			1										-	1		
MW-6			1255	1	11			Y	-		-	+	X			-	-		-	-	-						-		
MW-7				1-	1				-		-	-		-	-	-	-	-		-	-						-	-	
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api 0507386

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

6-1594	98-1620					Work	Order:	05073	86	1	ClientII	D: AEI	.	E	DF: N	0			
Report to:								Bill t	o:				*	ſ	Request	ed TAT:		5 da	ays
	tants no Diablo, Ste. #200		(925) 283-600 (925) 283-612 No: #9482; Vic's A	21	tive				2500	vironm Camino	ental, In Diablo	Ste. #2	200		Date Re	eceived:	07	/22/20	05
Walnut Cre	ek, CA 94597	PO:				_			Walnu	ut Cree	k, CA 94	1597		Ĺ	Date Pr	rinted:	07	/22/20	05
										Reques	ted Test	s (See le	egend b	elow)					_
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507386-001	Combined	Air	07/22/2005		A							-							1
0507386-002	MW-1	Air	07/22/2005		А														
0507386-003	MW-2	Air	07/22/2005		А														1
0507386-004	MW-5	Air	07/22/2005		А														
0507386-005	MW-6	Air	07/22/2005		A														
0507386-006	MW-7	Air	07/22/2005		A														1

Test Legend:

1 G-MBTEX_AIR	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Rosa Venegas

Comments:



AEI Consultants	Client Project ID: #9482; Vic's Automotive	Date Sampled: 07/27/05
2500 Camino Diablo, Ste. #200		Date Received: 07/27/05
Walnut Creek, CA 94597	Client Contact: Peter McIntyre	Date Reported: 08/02/05
wallut Creek, CA 94397	Client P.O.:	Date Completed: 08/02/05

WorkOrder: 0507465

August 02, 2005

Dear Peter:

Enclosed are:

- 1). the results of 6 analyzed samples from your #9482; Vic's Automotive project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Angela Rydelius, Lab Manager

AEI C	onsultants			Project ID: #9	9482; Vic's		Date Sampled:	07/27/05		
2500 (Camino Diablo, S	Ste. #200	Automo	otive			Date Received:	07/27/05		
Walnu	ut Creek, CA 945	:07	Client C	Contact: Peter	McIntyre		Date Extracted:	07/28/05		
vv annu	и слеек, са 943	97	Client P	2.0.:			Date Analyzed:	07/28/05		
Extractic	Gasoli on method: SW5030B	ine Rang	e (C6-C12)		rocarbons as methods: SW80211		with BTEX and		Order: (0507465
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1 (END)	A	16,000,a	ND<150	360	1000	140	570	20	99
002A	MW-2 (END)	A	18,000,a	ND<180	530	1200	120	480	20	111
003A	MW-5 (END)	A	12,000,a	ND<50	270	780	130	550	20	110
004A	MW-6 (END)	A	25,000,a	ND<150	410	1800	300	1200	20	101
005A	MW-7 (END)	А	58,000,a	ND<900	1300	2400	310	1200	20	101
006A	Combined (END)	A	43,000,a	ND<400	860	2300	330	1300	20	106
						1				
										-
	ng Limit for $DF = 1$; ns not detected at or	А	25	2.5	0.25	0.25	0.25	0.25	1	μg/L
	the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/K

* water and vapor samples and all TCLP & SPLP extracts 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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager



EPA Method: SW8021B/	/8015Cm E	xtraction	SW5030	в	Batc	hID: 17354		Spiked San	nple ID: 050	7468-002A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSE
TPH(btex) [£]	ND	60	112	103	9.05	105	105	0	70 - 130	70 - 130
MTBE	ND	10	109	106	2.53	96.7	109	11.6	70 - 130	70 - 130
Benzene	ND	10	119	112	5.78	110	117	6.32	70 - 130	70 - 130
Toluene	ND	10	114	105	8.61	107	111	2.98	70 - 130	70 - 130
Ethylbenzene	ND	10	115	110	4.05	111	113	2.23	70 - 130	70 - 130
Xylenes	ND	30	100	96.3	3.74	96.7	100	3.39	70 - 130	70 - 130
%SS:	113	10	115	109	5.78	110	114	2.83	70 - 130	70 - 130

BATCH 17354 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0507465-001A	7/27/05 11:25 AM	7/28/05	7/28/05 6:29 AM	0507465-002A	7/27/05 11:30 AM	7/28/05	7/28/05 6:59 AM
0507465-003A	7/27/05 11:39 AM	7/28/05	7/28/05 7:29 AM	0507465-004A	7/27/05 11:40 AM	7/28/05	7/28/05 7:59 AM
0507465-005A	7/27/05 11:45 AM	7/28/05	7/28/05 8:28 AM	0507465-006A	7/27/05 11:20 AM	7/28/05	7/28/05 9:58 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 = 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.

DHS Certification No. 1644

MC_QA/QC Officer

	McCAN	IPBELI 110 2 nd A				LI	NC.											CH	IA	IN (OF	CU		OD	YR	ECO	OR	D		
		PACHEO	CO, CA 94	553-55	,#D7 60								1	CUI	RN	AF	105	UN	DI	IMI	E			Ę		L		-	I	K
Telepho	ne: (925) 79					ax:	(925) 79	8-16	22			F	DE	Dee	uire	od9	,		Van		R	USH	24	HR	48 1	HR	72 H	R	5 DAY
Report To: Peter	McIntvre		E	ill To	o: san	ne		-					15	Dr	Ney	un			and the second	Yes is Rec		States of Street, or other	140		Т	0	her		omn	ients
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2500	Camino Dia	blo, Suite	200										1		B&F															
	ut Creek, C	A 94597		E-N	Iail: I	omcin	ntyre(aaei	cons	ultant	s.cc	m	8015//MTBE		&F/	09														
Tele: (925) 944-2	899	1			(925)							_	15 V/N		20 E	d 82	-													
Project #: 9482	1	/		rojec	t Nai	ne: \	Vic's	Au	tom	otine	3		+ 801		55	EPA method 8260	\$260													
Project Location:	1 4 10	eet, Oakla	and				_		_	_					case	Am	por 8													
Sampler Signatur	e: ////				1	-		-	-			OD	02/8	-	& GI	K EP	meth													
	1/	SAMP	LING	LS	iners	I	MAT	RD	K		SER	VED	: Gas (602/8020	(8015)	n Oil ,	ates by	EPA	F												
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	lce	HUI	Other Other	BTEX & TPH as	TPH as Diesel	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by	MTBE only by EPA method 8260	Dissolved Lead												
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MW-Z (end)		11	1130	1	I		>	<			1		×								-					1				
MW 5 (evol)			1133	1	11		>	~	-		1	-	×							-	1		-	-				-		
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Report To: Peter	McIntyre		1	Bill To		20	_	_	-		-		E	DF	Reg	uire	_	-		Yes			No						La		_
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	ut Creek, C			E-N	fail:	omcin	tyre	aeico	ons	ultan	its.co	om	8015)/MTBE		LE/B	0															
Tele: (925) 944-2	899	1	I	ax:									5)/M		0 E8	826															
Project #: 9482		1	1	Projec	et Na	ne: V	'ic's	Auto	om	otine	e				552	thod	09														
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	1-1	(SAME	LING	< s	siers	N	141	RIX				IOD RVED		8015)	Oil &	tes by	EPA II														
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other	lce	HCI	HNO ₃ Other	BTEX & TPH as	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by EPA method 8260	MTBE only by EPA method 8260	Dissolved Lead													
7/19/05 Combined 2100		7/19/05	0720	1	ted		2	K					X	-						+	1	\square	-		+	+	+	+	\vdash		_
MW-1		7/19/05	0723	1	ted		2		-		-		X	-		-	-	-	+	-	-		-	-			-	+		_	
MW-2		7/19/05	0725	1	ted		2		-		-		X	-	-	-	-		+	-	+		-	-		-		-	-		_
MW-5		7/19/05	0730	1	ted		7		-	-	-		X	-		-	-		+		-			-		-		+			
MW-6		7/19/05	0735	1	ted		X		-		+		X	-		-	-	-	+	_	-		_		+		-	-	-	_	_
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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620					Work(Order:	0507	277		Clier	tID:	AEL		F	EDF: N	O			
Report to:								Bill	to:							Request	ed TAT:		5 da	ays
Peter McInt	yre	TEL:	(925) 283-6000	С					Diane	;										
	tants no Diablo, Ste. #200 ek, CA 94597	FAX: Projec PO:	(925) 283-6121 ctNo: #9482; Vic's Au		live				2500	Camir	nental no Dial ek, CA	olo, St		:00		Date Re Date Pr	eceived: rinted:		7/19/20 7/19/20	
										Reque	ested T	ests (S	See le	gend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15
0507277-001	7/19/05 Com 2100	Air	7/19/05 7:20:00 AM		A															
0507277-002	MW-1	Air	7/19/05 7:23:00 AM		A															
0507277-003	MVV-2	Air	7/19/05 7:25:00 AM		А															
0507277-004	MVV-5	Air	7/19/05 7:30:00 AM		A															
0507277-005	MVV-6	Air	7/19/05 7:35:00 AM		А															
0507277-006	MW-7	Air	7/19/05 7:40:00 AM		A															

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Maria Venegas

Comments:

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		110 2 nd A	VENUE SC CO, CA 94										1	UF	IN	AR				IM									-at
Telepho	ne: (925) 79		LU, CA 94	000-00		ax:	(925	5) 79	8-16	22												RI	JSH	24 H		48 HR		72 HR	5 DAY
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Report To: Peter		_	E	Bill T	o: sai	ne											-	Ana	lysis	s Re	quest	t			_	Othe	r	Com	ments
Company: AEI C	the second s	11 6 4	200								_		1		(H)														
	Camino Dia		1	ET B	. · · · ·		a and a state	0		1			3E		Oil & Grease (5520 E&F/B&F)									1					
Tele: (925) 944-2	ut Creek, C	A 94591	1		Iail:	-			icons	ultant	S.CC	om	MTH		E&I	260													
Project #: 9482	6999	- 11			(925)	_							8015)/MTBE		520	7 Fuel Oxygenates by EPA method 8260	0												
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(Field Point Name)	LOCATION	D		Containers	Type Containers								BTEX & TPH	TPH as Diesel (8015)	Total Petroleum	DXYE	ylnc	Dissolved Lead											
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api 0507386

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

6-1594	98-1620					Work	Order:	05073	86	1	ClientII	D: AEI	.	E	DF: N	0			
Report to:								Bill t	o:				*	ſ	Request	ed TAT:		5 da	ays
	tants no Diablo, Ste. #200		(925) 283-600 (925) 283-612 No: #9482; Vic's A	21	tive				2500	vironm Camino	ental, In Diablo	Ste. #2	200		Date Re	eceived:	07	/22/20	05
Walnut Cre	ek, CA 94597	PO:				_			Walnu	ut Cree	k, CA 94	1597		Ĺ	Date Pr	rinted:	07	/22/20	05
										Reques	ted Test	s (See le	egend b	elow)					_
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507386-001	Combined	Air	07/22/2005		A							-							1
0507386-002	MW-1	Air	07/22/2005		А														
0507386-003	MW-2	Air	07/22/2005		А														1
0507386-004	MW-5	Air	07/22/2005		А														
0507386-005	MW-6	Air	07/22/2005		A														
0507386-006	MW-7	Air	07/22/2005		A														1

Test Legend:

1 G-MBTEX_AIR	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Rosa Venegas

Comments:

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 7	98-1620					Work(Order:	0507	277		Clier	tID:	AEL		F	EDF: N	O			
Report to:								Bill	to:							Request	ed TAT:		5 da	ays
Peter McInt	yre	TEL:	(925) 283-6000	С					Diane	;										
	tants no Diablo, Ste. #200 ek, CA 94597	FAX: Projec PO:	(925) 283-6121 ctNo: #9482; Vic's Au		live				2500	Camir	nental no Dial ek, CA	olo, St		:00		Date Re Date Pr	eceived: rinted:		7/19/20 7/19/20	
										Reque	ested T	ests (S	See le	gend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	-	7	8	9	10	11	12	13	14	15
0507277-001	7/19/05 Com 2100	Air	7/19/05 7:20:00 AM		A															
0507277-002	MW-1	Air	7/19/05 7:23:00 AM		A															
0507277-003	MVV-2	Air	7/19/05 7:25:00 AM		A															
0507277-004	MVV-5	Air	7/19/05 7:30:00 AM		A															
0507277-005	MVV-6	Air	7/19/05 7:35:00 AM		А															
0507277-006	MW-7	Air	7/19/05 7:40:00 AM		A															

Test L	egend:				
1	G-MBTEX_AIR	2	3	4	5
6		7	8	9	10
11		12	13	14	15

Prepared by: Maria Venegas

Comments:

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		110 2 nd A	VENUE SC CO, CA 94										1	UF	IN	AR				IM									-at
Telepho	ne: (925) 79		LU, CA 94	000-00		ax:	(925	5) 79	8-16	22												RI	JSH	24 H		48 HR		72 HR	5 DAY
								-					E	DFI	Red	uire			1)			X	No		_				
Report To: Peter		_	E	Bill T	o: sai	ne											-	Ana	lysis	s Re	quest	t T T			_	Othe	r	Com	ments
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	Camino Dia		1	ET B	. · · · ·		a a contractor	0		1			3E		Oil & Grease (5520 E&F/B&F)									1					
Tele: (925) 944-2	ut Creek, C	A 94591	1		Iail:	-			icons	ultant	S.CC	om	MTH		E&I	260													
Project #: 9482	6999	- 11			(925)	_							8015)/MTBE		520	7 Fuel Oxygenates by EPA method 8260	0												
Project Location:	245 oth de	Doll	F	roje	et Na	me:	VIC'	s Al	itom	oune			+		se (5	neth	MTBE only by EPA method 8260											1	
Sampler Signatur		eer, Oaki		-	_								Gas (602/8020		ireas	An	poq											1	
Samplet Signatu	e. / /			T	T	T			-	M	TH	on	602/8	0	& G	y El	met											1	
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SAMPLE ID	\cup			ner	tair								as	sel (eum	gena	by	cad										1	
(Field Point Name)	LOCATION	D		Containers	Type Containers								BTEX & TPH	TPH as Diesel (8015)	Total Petroleum	DXYE	ylnc	Dissolved Lead											
		Date	Time	Con	pe	Water	-	Air	Other	F	- 5	Other Other	XX	I as	al Po	lel (BE	solv										1	
				#	Ty	M	Soil	Air	Of O	Ice	HCI	0 H	BTE	TPI	Tot	7 F	TM	Dis											
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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 79	98-1620					Work	Order:	05073	86		ClientI	D: AEI		E	DF: N	0			
Report to:								Bill t	o:				*	ş	Request	ed TAT:		5 da	ays
Peter McInt	yre	TEL:	(925) 283-600	00															
	ants no Diablo, Ste. #200 ek, CA 94597								2500	Camino	ental, In Diablo k, CA 94	, Ste. #2	200		Date Ro Date Pi	eceived: rinted:		//22/20 //22/20	1.1.2
										Reques	ted Test	ts (See l	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0507386-001	Combined	Air	07/22/2005		А					1	T	1							1
0507386-002	MW-1	Air	07/22/2005		А														
0507386-003	MW-2	Air	07/22/2005		А														
0507386-004	MW-5	Air	07/22/2005		A									1					
0507386-005	MW-6	Air	07/22/2005		A														1
0507386-006	MW-7	Air	07/22/2005		A														1

Test Legend:

1 G-MBTEX_AIR	2	3	4	5
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Prepared by: Rosa Venegas

Comments:

	McCAN	IPBELI				LI	NC												CE	IA	IN	OF	C		'OI	Y	RE	COI	RD		
		PACHEO	CO, CA 94	553-55	,#D7 60									1	U	RN	AF	101	UN	D	ГIМ	E									K
Telepho	ne: (925) 79					ax:	(925	5) 7	98-10	622	2			EDF Required? 🖸 Yes								USH No	2.	4 HR	4	8 HR		72 HR	5 DAY		
Report To: Peter	McIntvre		F	Bill To	o: san	ne		-	-	-				Jei	Jr.	Rey	un			and the second	is Re	alle	A REAL PROPERTY.	140				Othe	r	Com	ments
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	ut Creek, C	A 94597		E-N	Iail: 1	omci	ntyre	aa	eicon	sul	tants.	con	n	8015)/MTBE		&F/]	60														
Tele: (925) 944-2	.899	1			(925)					_				5)/N		20 E	d 82	-													
Project #: 9482		/		roje	ct Nai	me:	Vic'	s A	uton	101	tine			+ 801		(55	EPA method 8260	\$260													
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers		Water	Soil	Air	Sludge Other	Ian	HCI	HNO,	Other	BTEX & TPH a	TPH as Diesel	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by	MTBE only by EPA method 8260	Dissolved Lead												
MW-1 (end)		7/27/05	1125	1	Tealby			X		t		1		x						-	-	-	-		-	-				1	
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MW 5 (erch)			1137	1				×		1	1	1		X	-	-	-			-		-	-		-	-		-	-	-	
			1140	1	+			-	-	+	+	-	-	X		-		-				-				-			+	-	
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Telepho	ne: (925) 79					ax:	(925	5) 7	98-10	622	2			EDF Required? 🖸 Yes								USH No	2.	4 HR	4	8 HR		72 HR	5 DAY		
Report To: Peter	McIntvre		F	Bill To	o: san	ne		-	-	-				Jei	Jr.	Rey	un			and the second	is Re	alle	A REAL PROPERTY.	140				Othe	r	Com	ments
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	ut Creek, C	A 94597		E-N	Iail: 1	omci	ntyre	aa	eicon	sul	tants.	con	n	8015)/MTBE		&F/]	60														
Tele: (925) 944-2	.899	1			(925)					_				5)/N		20 E	d 82	-													
Project #: 9482		/		roje	ct Nai	me:	Vic'	s A	uton	101	tine			+ 801		(55	EPA method 8260	\$260													
Project Location:	1 4 10	eet, Oakla	and		_										1	case	A m	s poi												1	
Sampler Signatur	e: ////	2		-	1	-		-		-				02/8(_	& Gr	EP	meth													
	V	SAMP	LING	SI	iners		MA'	TR	IX		MET			s Gas (602/8020	(8015)	m Oil a	ates by	EPA	q												
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers		Water	Soil	Air	Sludge Other	Ian	HCI	HNO,	Other	BTEX & TPH a	TPH as Diesel	Total Petroleum Oil & Grease (5520 E&F/B&F)	7 Fuel Oxygenates by	MTBE only by EPA method 8260	Dissolved Lead												
MW-1 (end)		7/27/05	1125	1	Tealby			X		t		1		x						-	-	-	-		-	-				1	
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MW 5 (erch)			1137	1				×		1	1	1		X	-	-	-			-		-	-		-	-		-	-	-	
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McCampbell Analytical, Inc. 110 Second Avenue South, #D7

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CHAIN-OF-CUSTODY RECORD

Page 1 of

(925) 79	, CA 94553-5560 8-1620					Work	Order	05074	165	C	ClientII): AEL		E	DF: N	0				
Report to:								Bill	to:					I	Request	ed TAT:		5 da	ays	
Peter McIntyre TEL: (925) 283-6000 AEI Consultants FAX: (925) 283-6121 2500 Camino Diablo, Ste. #200 ProjectNo: #9482; Vic's Automotive Walnut Creek, CA 94597 PO: PO:							Diane All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597									Date Received: Date Printed:				
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0507465-001	MW-1 (END)	Air	7/27/05 11:25:00		A															
0507465-002	MW-2 (END)	Air	7/27/05 11:30:00		А															
0507465-003	MW-5 (END)	Air	7/27/05 11:39:00		А															
0507465-004	MW-6 (END)	Air	7/27/05 11:40:00		А															
0507465-005	MW-7 (END)	Air	7/27/05 11:45:00		А												-			
0507465-006	Combined (END)	Air	7/27/05 11:20:00		A															

Test Legend:

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G-MBTEX_AIR	2	3	4	5	
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Prepared by: Rosa Venegas

Comments: