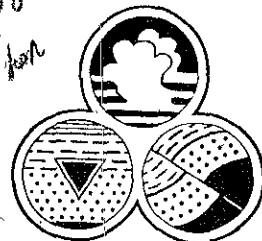


TPAG 3000  
TPA 400  
TPA 1000

PPG  
W/Other  
500  
64/100  
70/100

# Advanced GeoEnvironmental, Inc.



19 September 2003  
AGE-NC Project No. 99-0556

120 2442

Mr Amir Gholami  
Alameda County Health Care Services  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Alameda County

SEP 2 2003

Environmental Health

**Subject: Closure Summary Report 2003  
Former Continental Volvo  
4030 - 4122 East 14<sup>th</sup> Street, Oakland, California**

Dear Mr Gholami:

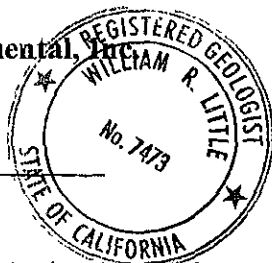
At the request of Mr. Achim Ehrhardt of the former Continental Volvo, Inc. *Advanced GeoEnvironmental, Inc.* has prepared the enclosed closure summary report regarding the characterization of soil and ground water from the property at 4030 - 4122 East 14<sup>th</sup> Street in Oakland, California.

If you have any questions or require further information, please contact our office at (209) 467-1006.

Sincerely,

*Advanced GeoEnvironmental, Inc.*

William Little  
Project Geologist  
California Registered Geologist No. 7473



cc: Mr. Achim Ehrhardt former Continental Volvo, Inc.  
Mr. Jory Hite - McKevitt Volvo

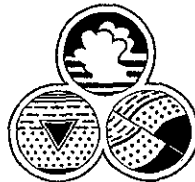
**Closure Summary Report 2003**  
**Former CONTINENTAL VOLVO**  
**4030 - 4122 East 14<sup>th</sup> Street, Oakland, California**

19 September 2003  
AGE-NC Project No. 99-0556

*PREPARED FOR:*

Mr. Achim Ehrahardt  
CONTINENTAL VOLVO, INC.

*PREPARED BY:*



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**Closure Summary Report**  
**Former CONTINENTAL VOLVO**  
**4030 - 4122 East 14<sup>th</sup> Street, Oakland, California**

19 September 2003  
AGE-NC Project No. 99-0556



**Advanced GeoEnvironmental, Inc.**  
**837 Shaw Road, Stockton, California**

PREPARED BY:

*William Little*

William Little  
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REVIEWED BY:

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Brian Millman  
Project Geologist

**Closure Summary Report 2003**  
**FORMER CONTINENTAL VOLVO**  
4030 - 4122 East 14<sup>th</sup> Street in Oakland, California  
**TABLE OF CONTENTS**

	<b>Page</b>
<b>1.0. INTRODUCTION AND SCOPE OF WORK</b> .....	<b>1</b>
<b>2.0. BACKGROUND</b> .....	<b>1</b>
2.1. SITE DESCRIPTION .....	1
2.2. UNDERGROUND STORAGE TANK REMOVAL .....	2
2.3. PREVIOUS ASSESSMENTS .....	2
2.4. PRELIMINARY SITE ASSESSMENT CONCLUSIONS .....	4
<b>3.0. MONITORING WELL INSTALLATIONS</b> .....	<b>5</b>
3.1. SOIL DRILLING AND MONITORING WELL COMPLETIONS .....	5
3.2. SOIL SAMPLE COLLECTION AND ANALYSIS .....	6
<b>4.0. ADDITIONAL SITE ASSESSMENT</b> .....	<b>6</b>
4.1. SOIL LOGGING .....	7
4.2. LABORATORY ANALYSIS OF SOIL AND GROUND WATER SAMPLES .....	7
4.3. FINDINGS .....	8
<b>5.0. ADDITIONAL SOIL DRILLING AND MONITORING WELL COMPLETION</b> .....	<b>8</b>
5.1. SOIL SAMPLE COLLECTION AND ANALYSIS .....	8
<b>6.0. GROUND WATER MONITORING ACTIVITIES</b> .....	<b>9</b>
6.1. Well Monitoring, Evacuation, Collection and Analysis of Ground Water Samples .....	9
6.2. DEPTH TO GROUND WATER .....	10
6.3. HYDROCARBON-IMPACTED GROUND WATER .....	10
<b>7.0. SUMMARY AND CONCLUSIONS</b> .....	<b>11</b>
<b>8.0. RECOMMENDATION</b> .....	<b>12</b>
<b>9.0. LIMITATIONS</b> .....	<b>13</b>

**FIGURES**

Figure 1 - *Location Map*

Figure 2 - *Site Plan*

## **TABLES**

Table 1 - *Analytical Results of Soil Samples - EPA Method 8015M/8020*

Table 2 - *Analytical Results of Soil Samples - EPA Method 8260*

Table 3 - *Analytical Results of Ground Water Samples - EPA Method 8015M/8020*

Table 4 - *Analytical Results of Ground Water Samples - EPA Method 8260M*

Table 5 - *Surrounding Closed /Active Site*

## **APPENDICES**

Appendix A - *Soil Boring Logs*

Appendix B - *Monitoring Well Field Logs*

Appendix C - *Laboratory Report of Soil Samples*

Appendix D - *Laboratory Report of Water Samples*

**Closure Summary Report 2003**  
**FORMER CONTINENTAL VOLVO**  
4030 - 4122 East 14<sup>th</sup> Street in Oakland, California

**1.0. INTRODUCTION AND SCOPE OF WORK**

At the request of Mr. Achim Ehrhardt of the former CONTINENTAL VOLVO, Inc. in Oakland, Advanced GeoEnvironmental, Inc. (AGE) has prepared this closure summary report regarding the characterization of soil and ground water from the property at 4030 - 4122 East 14<sup>th</sup> Street in Oakland, California (the site). The location of the site is illustrated in Figure 1. A plan view or layout of the maintenance compound on the property is illustrated in Figure 2.

Sampling was performed in accordance with guidelines for investigation of underground storage tank (UST) sites established by the Regional Water Quality Control Board.

This CSR has been prepared in accordance with the California Regional Water Quality Control Board (RWQCB) guidelines (*Tri-Regional Board Staff Recommendations For Preliminary Investigations and Evaluation of Underground Tank Sites*) for No Further Action Requests.

**2.0. BACKGROUND**

The site is located in central Oakland in a commercial area (Figure 1) and is east of State Route 880. (One 550-gallon waste oil underground storage tank (UST) was removed from the eastern sidewalk of the site in 1985. A new double-walled UST for waste-oil was then installed in the same location. On 04 May 2000, the two USTs were removed from site under permit. Tank #1 were utilized for heating oil, while tank #2 was upgraded/permittted and used to store waste oil (Figure 2).

550 gal new UST # 2's double walled

One 1000 gal waste oil tank  
1 Heating oil tank

UST # 1  
UST # 2  
waste oil tank  
Heating oil tank

**2.1. SITE DESCRIPTION**

Two buildings and a vacant lot utilize as a car lot occupy the site as shown in Figure 2. AGE has been informed that the property was operated as a car or truck maintenance shop since the 1950s. The vacant lot was used as a residence prior to being used as a car lot.

The site is located in a commercial and residential area of southeast Oakland. Figure 1 shows the setting of the subject property (7.5 Minute United States Geological Survey [USGS] Oakland North Topographic Map). The elevation at the subject property is approximately 30 feet above mean sea level and dips very gently southwest towards San Francisco Bay. Approximately 1,000 feet beyond the property, the topography steepens abruptly toward the East Bay Hills on the northeast.

1985  
1987  
1985-1987  
A double walled UST for waste oil was installed in the same location.  
This UST meets current underground storage tank regulations.  
A soil sample collected from beneath the UST detected oil and grease at 130 milligrams per kilogram (mg/kg).  
However, aromatic and halogenated volatile organics, nor extractable hydrocarbons were detected in the soil sample.  
Limited excavation of the impacted soil was conducted.  
A second sample collected from beneath the UST detected oil and grease at 80 mg/kg.

## 2.2. UNDERGROUND STORAGE TANK REMOVAL

Based on the information currently at AGE's disposal, one underground storage tank (UST) was removed from the site in April 1987. A 550-gallon waste oil UST was located in the eastern sidewalk of the site. A new double-walled UST for waste-oil was installed in the same location. This UST meets current underground storage tank regulations. A soil sample collected from beneath the UST detected oil and grease at 130 milligrams per kilogram (mg/kg). However, aromatic and halogenated volatile organics, nor extractable hydrocarbons were detected in the soil sample. Limited excavation of the impacted soil was conducted. A second sample collected from beneath the UST detected oil and grease at 80 mg/kg.

~~The two USTs were excavated on 03 May 2000 and removed on 04 May 2000 (Figure 2). No dispensers or product line(s) were removed during excavation of the UST. The tanks were utilized for heating oil (parking lot area) and waste oil storage (eastern sidewalk). All the soil removed to uncover the tanks was temporarily stockpiled on the side walks surround the USTs. After being removed, the tanks were visually inspected with holes noted at the base of the ends of the heating oil UST. The waste oil UST was in excellent condition. Total petroleum hydrocarbons quantified as gasoline, diesel and motor oil (TPH-g, TPH-d and TPH-mo) were detected in the soil samples has high as 360 mg/kg, 1,100 mg/kg and 2,000 mg/kg, respectively. Benzene, toluene, ethylbenzene and total xylenes (BTEX) compounds were detected as high as 0.7 mg/kg benzene. Total lead and other metal were detected at or above background levels. PCBs were also detected in the waste oil UST sample. TPH and BTEX were not detected in the stockpile soil sample. A perforated conductor casing had been previously installed within the fiberglass, double-walled, waste oil UST excavation, which was designated MW-UST. A grab water sample collected from the former waste oil UST excavation well was impacted. TPH-g was detected in the water samples has high as 180 micrograms per liter (µg/l), TPH-d 68,000 µg/l and TPH-mo 200,000 µg/l. BTEX compounds were detected as high as 23 µg/l benzene. LUFT metals were detected in the grab water sample from the waste oil UST area.~~

PCB  
TCE

## 2.3. PREVIOUS ASSESSMENTS

In late January 1998, AGE personnel visited the site to identify locations on the site that potentially have subsurface impacts resulting from past and current site usage and related activities. Three areas of concern were noted: a former UST which reported had been leaking waste oil; two operating (approximately 150-gallon and 100-gallon) above ground storage tanks (ASTs) and several operating underground hydraulic lifts. Analytical data for soil samples and ground water samples are summarized in the Tables of this report.

• 26 January 1998 - a total of twelve soil probe borings (P1 through P12) were advanced at

the site, under the supervision of an AGE geologist. Six soil probe borings were advanced in the vicinity of the lifts within the buildings on the site; two soil probe borings were advanced in the vicinity of the active UST (also the location of the removed UST 1987), in the City of Oakland right-of-way; three soil probe borings were advanced on the car lot and one soil probe boring was advanced in the vicinity of the active ASTs. Locations of the soil probe borings are illustrated on Figure 2. Soil probe boring P4 was advanced to a depth of 5 feet bsg. Soil probe borings P1, P3, P7, P8 and P9 were advanced to a depth of 10 feet bsg. Soil probe borings P5, P10, P11 and P12 were advanced to a depth of 15 feet bsg. Soil probe boring P2 was advanced to a depth of 20 feet bsg. Soil probe boring P6 was advanced to a depth of 30 feet bsg. Grab ground water samples were collected from probe borings P12 using a Geoprobe water sampling assembly.

- TPH-g, TPH-d and TPH-mo were detected in soil sample P5-7, collected from east of the UST at concentrations of 42 mg/kg, 150 mg/kg and 660 mg/kg, respectively. TPH-g, TPH-d and TPH-mo were detected in soil sample P5-10 at concentrations of 8.8 mg/kg, 59 mg/kg and 280 mg/kg, respectively. TPH-g, TPH-d and TPH-mo were detected in soil sample P6-10 at concentrations of 53 mg/kg, 240 mg/kg and 1,200 mg/kg, respectively. TPH-g, TPH-d and TPH-mo were not detected in soil samples P5-15 or P6-15. *GW @ 10 ft BGS?*
- Trichloroethene (TCE) was detected in three (soil) samples P5-15, P6-10 and P6-10 at concentrations of 110 (micrograms per kilograms)  $\mu\text{g}/\text{kg}$ , 14  $\mu\text{g}/\text{kg}$  and 140  $\mu\text{g}/\text{kg}$ , respectively. TCE was not detected in soil samples P5-7 or P5-10. *110 ppm*
- BTEX compounds were detected in sample P5-7 at concentrations of 0.082 mg/kg, 0.07 mg/kg, 0.033 mg/kg and 0.4 mg/kg, respectively. BTEX compounds were detected in sample P5-10 at concentrations of 0.008 mg/kg, 0.01 mg/kg, 0.008 mg/kg and 0.04 mg/kg, respectively. Toluene and xylene were detected in sample P6-10 at concentrations of 0.098 mg/kg and 0.45 mg/kg, respectively. BTEX compounds were not detected in samples P5-15 or P6-15. Petroleum hydrocarbons were not detected in soil samples collected from any other probe borings advanced during this investigation.
- TPH-d and TPH-mo were detected in the grab ground water samples collected from the boring P12 at a concentration of 6,800  $\mu\text{g}/\text{l}$  and 14,000  $\mu\text{g}/\text{l}$ , respectively. TPH-g, BTE&X were not detected in the grab water sample. Tetrachloroethene (PCE) was detected in the grab water sample at a concentration of 24  $\mu\text{g}/\text{l}$ . The grab ground water sample had no detectable concentrations of the LUFT metals; cadmium, chromium, nickel, lead and zinc.

Based on the UST soil sample concentrations a site assessment of the UST release was requested by the City of Oakland. Tasks and procedures for this investigation were completed in accordance with the approved *Subsurface Investigation Work Plan*, dated 05 October 2000 and prepared by AGE.

- ~~08 January 2001~~, two soil probe borings (~~P13 and P14~~) were advanced at the site. Two soil



probe borings were advanced in the vicinity the former UST, in the City of Oakland right-of-way. Locations of the soil probe borings are illustrated on Figure 2. Soil boring were advanced to a depth of 35 feet bsg. A grab ground water samples was collected from probe borings P13 using a water sampling assembly. Ground water was not present in probe boring P14 at 35 feet bsg. A grab ground water sample was collected from the sampling well in the former waste oil UST excavation.

- TPH-g, TPH-d and TPH-mo were detected in one soil sample, P14-10, collected from of the waste oil UST at concentrations of 260 mg/kg (milligrams per kilograms), 1,000 mg/kg and 2,200 mg/kg, respectively. TPH-d and TPH-mo were also detected in soil sample P14-15 at concentrations of 2.7 mg/kg and 8.9 mg/kg, respectively. BTEX compounds were detected in one soil sample, P14-10 at concentrations of 0.51 mg/kg, 0.23 mg/kg, 0.49 mg/kg and 1.3 mg/kg, respectively. TCE was detected in two soil samples from boring P14 at 20 feet and 30 feet bsg at concentrations of 7.2 (micrograms per kilograms)  $\mu\text{g}/\text{kg}$  and 17  $\mu\text{g}/\text{kg}$ , respectively. TCE was not detected in soil samples P14-35.
- TPH-g, TPH-d and TPH-mo were detected in the grab ground water sample from the waste oil UST excavation (monitoring well) at concentrations of 61  $\mu\text{g}/\text{l}$  (micrograms per liter), 8,700  $\mu\text{g}/\text{l}$  and 54,000  $\mu\text{g}/\text{l}$ , respectively. Benzene was also detected in the same samples at a concentration of 3.0  $\mu\text{g}/\text{l}$ . MTBE was detected in the grab water sample at a concentration of 1.4  $\mu\text{g}/\text{l}$ .
- TCE was detected in the grab water sample from probe boring P13, the heating oil UST, at a concentration of 65  $\mu\text{g}/\text{l}$ . Cis-1,2-DCA was detected the grab water sample from probe boring P13, the heating oil, at a concentration of 43  $\mu\text{g}/\text{l}$ . 1,2-DCA was detected the grab water sample from the waste oil UST sampling well MW-UST, at a concentration of 2.8  $\mu\text{g}/\text{l}$ .

#### 2.4. PRELIMINARY SITE ASSESSMENT CONCLUSIONS

- Petroleum hydrocarbon-impacted soil at the site was encountered in the vicinity of the former UST/current UST within East 15<sup>th</sup> Street. The impacted soil was encountered in a somewhat narrow zone from depths of approximately 5 to 10 feet bsg. Hydrocarbon-impacted soil was encountered east of the UST at a depth of 10 feet bsg.
- The chlorinated cleaning solvent TCE, commonly use for de-greasing, was detected at low concentrations in soils samples at a depth of 15 feet bsg in the area of the waste oil tank. The vertical or lateral extent of the TCE contamination is not defined.
- Diesel fuel or motor oil-impacted ground water on the car lot appears to have originated from a diesel or heating-oil fuel matrix. The laboratory was consulted to decipher the make-up the petroleum-hydrocarbons detected in the water sample. A mix of low concentration diesel and high concentration oil was well pronounced in the laboratory data. This mix of hydrocarbons,

with the absence of gasoline and BTEX compounds, suggests a heating oil make-up of a petroleum release, or possibly two releases: one motor oil only and/or diesel fuel only release requiring two sources.

- The lack of detection of MTBE in soil samples and the water sample collected from the site suggests that the release of fuels is relatively old, possibly more than twenty years old.
- The lack of detection of fuels or oil in the service bay indicates no significant releases of petroleum in the area in which samples were collected.

### 3.0. MONITORING WELL INSTALLATIONS

The Alameda County Health Care Services Environmental Health Services - Environmental Protection (ACHCS) request additional information regarding the site assessment by letter 07 January 2002. In a letter dated 08 February 2002, the ACHCS directed the preparation of a work plan for monitoring well installation. The ACHCS approved the AGE prepared *Subsurface Investigation Work Plan* dated 05 October 2000 and *Subsurface Investigation Work Plan Addendum - Well Location* dated 27 February 2002, by letter dated 08 March 2002. The purpose of the work was to assess the lateral and vertical extent of petroleum hydrocarbon impacted soil and groundwater at the site. The work plan included establishment of soil borings, collection and analysis of soil samples, installation of shallow ground water monitoring wells, collection of three ground water samples from the wells and preparation of this report of findings. However, based on the concurrence of Ms. Eva Chu of the ACHCS on 04 June 2002, AGE postponed the installation of the southwestern-most proposed monitoring well (MW-2) pending soil and ground water analytical results from the newly-installed monitoring wells MW-1 and MW-3 and two proposed soil borings GB-1 and GB-2 (see Figure 2).

#### 3.1. SOIL DRILLING AND MONITORING WELL COMPLETIONS

On ~~04 June 2002~~, two soil borings were advanced to a depth of 20 feet below surface grade (bsg) utilizing a truck-mounted CME 75-HT drill rig equipped with 8-inch continuous flight hollow-stem augers. Soil boring MW-1 was advanced towards the southwest and down-gradient of the former waste oil UST excavation; boring MW-3 was established near the western corner of the used car lot, down-gradient of the former heating oil UST area. The soil boring locations are shown on Figure 2. ~~Borings MW-1 and MW-3~~ were completed as ground water monitoring wells using two 2-inch diameter, schedule 40 PVC casings, with 0.02-inch slotted screen installed from depths of 10 to 20 feet bsg and with blank casing extending to the surface. Monitoring well design specifications and soil boring logs are depicted in Appendix A.

### 3.2. SOIL SAMPLE COLLECTION AND ANALYSIS

Soil samples were collected continuously ahead of the drill bit using a split tube, 3-inch diameter core sampler. Samples were collected with pre-cleaned 2 x 6-inch brass sleeves. All sampling equipment was washed in an Alconox solution and rinsed twice with water prior to each sampling run.

For each sample, both ends of the soil sleeve selected for laboratory analysis were covered with Teflon sheets, capped and sealed with tape. The selected samples were stored in a chilled container and transported under chain-of-custody to McCampbell Analytical, Inc. (MAI), a California Department of Health Services (DHS)-certified analytical laboratory located in Pacheco, California. Selected samples were analyzed for:

- TPH-g and TPH-d and TPH-mo, respectively by EPA Method 8015 Modified,
- BTEX and methyl-tert-butyl ether (MTBE) by EPA Method 8020 and
- The oxygenated compounds di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), MTBE, tertiary-amyl methyl ether (TAME), tertiary butanol (TBA), methanol, ethanol, ethylene dibromide (EDB) and 1,2-dichloroethane (1,2-DCA) and all volatile organic compounds analyzed within the EPA Method 8260.

Four soil sample were analyzed from soil boring MW1 and two soil samples were analyzed from boring MW3.

- TPH-g was detected in soil sample MW3-11' at a concentration of 2.6 milligram per kilogram (mg/kg).
- TPH-d and TPH-mo were detected in soil samples MW1-5' and MW3-11'; the maximum concentrations were detected in sample MW3-11' at 120 mg/kg and 26 mg/kg, respectively.
- BTEX, VOC compounds and fuel additives were not detected in the soil samples analyzed.

### 4.0. ADDITIONAL SITE ASSESSMENT

On ~~10 June 2003~~ two soil probe borings (~~GB1 and GB2~~) were advanced at the site. Two soil probe borings were advanced within service bay at the site. Locations of the soil probe borings are illustrated on Figure 2. All probe borings were advanced using a van-mounted Geoprobe 5400 probing machine. Soil probe boring GB1 was advanced to a depth of 21 feet bsg and boring GB2 was advanced to a depth of 24 feet bsg. Soil was collected using a 3.15-inch diameter, four-foot long, core sampler loaded with a four-foot clear, polyvinylchloride sleeves. Discrete soil samples were

collected throughout the borings at 4-foot intervals beginning at a depth of 4 or 9 feet bsg. Grab ground water sample was not readily available for collection from the borings. Soil borings were backfilled with a portland cement slurry mix from the total depth to surface grade.

The sampling equipment was washed in an Alconox solution and rinsed with water prior to each sampling run to avoid cross-contamination. Upon sample retrieval, both ends of the selected sleeve-length were covered with Teflon sheets, capped and sealed with tape. Samples were then placed in a chilled container and transported under chain-of-custody to Cal Tech Environmental Laboratory (CTEL).

#### 4.1. SOIL LOGGING

Soil was extruded from the remaining ends of the selected sleeves and screened for the presence of organic vapor using an organic vapor meter equipped with a photo-ionization detector (PID: Thermo Environmental 580b, 10.0 eV, calibrated to isobutylene), and the readings were recorded on the Boring Logs. The soil was described in accordance with the Unified Soil Classification System. Soil boring logs are included in Appendix A.

#### 4.2. LABORATORY ANALYSIS OF SOIL AND GROUND WATER SAMPLES

Selected soil samples were logged on a chain-of-custody form, placed in a chilled container and transported to Cal Tech Environmental Laboratory (CTEL) in Paramount, California, a California Department of Health Services (DHS)-certified analytical laboratory and analyzed for:

- Total petroleum hydrocarbons quantified as gasoline, diesel and motor oil (TPH-g/d/,mo) in accordance with EPA Method 8015 Modified;
- Volatile aromatics: benzene, toluene, ethylbenzene and xylene (BTEX) with methyl tertiary-butyl ether (MTBE) in accordance with EPA Method 8020; and
- samples GB2-10 and BG1-9 were analyzed for Fuel additives, including tertiary butanol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE) and tert-amyl methyl ether (TAME), MTBE, methanol, ethanol, ethyl-dibromide (EDB) and 1,2-dichloroethane (1,2-DCA) and volatile organic analysis (VOCs) in accordance with EPA Method 8260 Modified.

Analytical data for the samples are included in Appendix B. The analytical results of soil samples and the grab ground water sample are summarized in this reports Tables.

#### 4.3. FINDINGS

TPH-g, TPH-d or TPH-mo were detected in four soil samples. BTEX compounds were not detected in the samples analyzed. TPH-g was detected at a maximum concentration of 5.1 mg/kg in sample GB1-13. TPH-d was detected at a maximum concentration of 4,100 mg/kg in sample GB2-10. TPH-mo was detected at a maximum concentration of 3,400 mg/kg in sample GB2-10. Samples from boring GB2 did not have a detection of TPH collected at 12 feet or 16 feet bsg. Also samples from boring GB1 did not have a detection of TPH in samples from 17 feet bsg. TCE was not detected in two soil samples from boring GB1 and GB2.

Laboratory results of soil samples analyzed for petroleum hydrocarbons are summarized in the laboratory reports (CTEL Laboratory Project ID # CTEL214-0304007) along with the quality assurance and quality control (QA/QC) reports and chains-of-custody in Appendix B.

#### 5.0. ADDITIONAL SOIL DRILLING AND MONITORING WELL COMPLETION

Due to the lack of readily available ground water from the soil borings GB-1 and GB-2, AGE installed the southwestern-most proposed monitoring well ~~(MW-2)~~ to delineate the dissolved contamination (see Figure 2).

On ~~19 June 2003~~, a soil boring was advanced to a depth of 20 feet below surface grade (bsg) utilizing a truck-mounted CME 75-HT drill rig equipped with 8-inch continuous flight hollow-stem augers. Soil boring ~~MW-2~~ was advanced towards the southwest of and down-gradient monitoring well MW-1. Boring MW-2 was completed as a ground water monitoring well using two 2-inch diameter, schedule 40 PVC casings, with 0.02-inch slotted screen installed from depths of 10 to 20 feet bsg and with blank casing extending to the surface. Monitoring well design specifications are depicted in Appendix A.

#### 5.1. SOIL SAMPLE COLLECTION AND ANALYSIS

Soil samples were collected ahead of the drill bit using a split tube, 2-inch diameter core sampler. Samples were collected with pre-cleaned 2 x 6-inch brass sleeves.

The selected samples were stored in a chilled container and transported under chain-of-custody to CTEL. Selected samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d) by EPA Method 8015 Modified,

- Benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl-tert-butyl ether (MTBE) by EPA Method 8020/8260 and
- The oxygenated compounds di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), MTBE, tertiary-amyl methyl ether (TAME), tertiary butanol (TBA), methanol, ethanol, ethylene dibromide (EDB) and 1,2-dichloroethane (1,2-DCA) and all volatile organic compounds analyzed within the EPA Method 8260.

Three soil sample were analyzed from soil boring MW2 (however the laboratory report lists the analysis as boring MW3). TPH-g/d nor BTEX, VOC compounds and fuel additives were not detected in the soil samples analyzed.

Laboratory results of soil water samples analyzed for petroleum hydrocarbons are summarized in Tables 1 and 2 and the laboratory reports (CTEL Laboratory Project ID # CTEL214-0304090) along with the quality assurance and quality control (QA/QC) reports and chains-of-custody in Appendix B.

## **6.0. GROUND WATER MONITORING ACTIVITIES**

Ground water monitoring activities were performed on the following date: 19 July 2002, 02 April 2003, 30 June 2003 and 21 July 2003.

### **6.1 Well Monitoring, Evacuation, Collection and Analysis of Ground Water Samples**

A Solinst water level meter was used to measure the depth to ground water in the three wells relative to the tops of the well casings. After recording water level measurements, disposable plastic bailers were used to purge each well; approximately 6 to 13.50 gallons of water (a minimum of 3 casing water-volumes per well) were removed. Ground water temperature, pH and conductivity were measured at regular intervals during purging using an Oakton water analyzer. Purged ground water was containerized in properly labeled DOT-approved model 17H 55-gallon drums and was stored on-site. Field sheets and data are included in Appendix C.

A ground water sample was collected from each purged well using a new disposable plastic bailer following 80 percent recovery of ground water within the well. Each water sample was transferred into three 40-ml volatile organic analysis (VOA) vials containing 0.5 ml 18% hydrochloric acid as a sample preservative and into one 1-liter amber bottle without sample preservative. After collection, the samples were properly labeled, placed in a chilled container and transported under chain-of-custody to MAI and CTEL. The samples were analyzed for:

- TPH-g and TPH-d in accordance with EPA Method 8015 Modified;
- BTEX and MTBE in accordance with EPA Method 8020; and/ or MTBE, DIPE, ETBE, TAME, TBA, EDB, 1,2-DCA and all other volatile organic compounds in accordance with EPA Method 8260 Modified.

## 6.2. DEPTH TO GROUND WATER

Static ground water was encountered at a depth of 10 feet bsg during monitoring well installation on 04 June 2002. At the time of the 19 July 2002 sampling event, the depth to ground water at the site ranged between 6.62 feet below the monitoring wells casing top at the former waste oil UST area and 8.85 feet below the monitoring wells casing top at well MW-3. The depth to ground water has been measured at depths of 8 to 6.3 feet below casing grade. The regional ground water flow direction at the site is south.

*No calculations performed!*

## 6.3. HYDROCARBON-IMPACTED GROUND WATER

*No flow calculations  
Calculations*

The results of the ground water sample laboratory analysis are presented as follows:

- 19 July 2002: TPH-g and TPH-d were detected in ground water sample UST at concentrations of 52 micrograms per liter ( $\mu\text{g/l}$ ) and  $3,100\mu\text{g/l}$ , respectively. TPH-g and TPH-d were also detected in sample MW1 at concentrations of  $78\mu\text{g/l}$  and  $200\mu\text{g/l}$ , respectively. Benzene was detected in the samples collected from wells UST and MW-1 at concentrations of  $3.4\mu\text{g/l}$  and  $5.4\mu\text{g/l}$ , respectively. 1,2-DCA was detected in the sample from well MW-1 at a concentration of  $7.8\mu\text{g/l}$ . Cis1,2-dichloroethane and trichloroethane (TCE) were detected in the sample from wells MW-1 and MW-3 at maximum concentrations of  $210\mu\text{g/l}$  and  $13\mu\text{g/l}$ , respectively, in the sample from well MW-1. Chlorinated benzene compounds were also detected in the water sample collected from well UST at concentrations as high as  $2.3\mu\text{g/l}$  1,2-dichlorobenzene. 2-Butanone was detected in sample MW1 at a concentration of  $11\mu\text{g/l}$ .
- 02 April 2003: TPH-g was detected in ground water sample MW-1, MW-3 and MW-UST at concentrations of  $250\mu\text{g/l}$ ,  $120\mu\text{g/l}$  and  $450\mu\text{g/l}$ , respectively. Benzene and ethylbenzene were detected in the sample collected from well MW-1 at concentrations of  $10\mu\text{g/l}$  and  $1.7\mu\text{g/l}$ , respectively. 1,2-DCA was detected in the sample from well MW-1 at a concentration of  $7.6\mu\text{g/l}$ . Cis1,2-dichloroethane and trichloroethane (TCE) were detected in the sample from wells MW-1 and MW-3 at maximum concentrations of  $58\mu\text{g/l}$  and  $190\mu\text{g/l}$ , respectively, in the sample from well MW-1. Chlorinated benzene compounds were also detected in the water sample collected from well MW-1 at concentrations as high as

6.6 µg/l 1,2-dichlorobenzene.

- 30 June 2003: TPH-g was detected in ground water sample MW-1 at a concentration of 1,900µg/l. Benzene was detected in the sample collected from well MW-1 at a concentration of 10 µg/l. TCE was detected in the samples from well MW-1 and MW-3 at concentrations of 170 µg/l µg/l and 23 µg/l. 1,2-DCA and Cis1,2-dichloroethane were detected in the sample from well MW-1 at concentrations of 4.5 µg/l and 52 µg/l, respectively.
- 21 July 2003: TPH-g was detected in ground water sample MW-2 at a concentration of 110 µg/l. TCE was detected in the sample from well MW-2 at a concentration of 4.1 µg/l. 1,2-dichlorobenzene and Cis1,2-dichloroethane were detected in the sample from well MW-2 at concentrations of 3.3 µg/l and 2.1 µg/l, respectively.

The analytical results of current and previous monitoring well samples are summarized in Tables 3 and 4. The laboratory reports of the current ground water sampling data (MAI Lab ID Numbers CTEL sample ID Numbers 0207251-1 to -3, 0304019-1 to-3, 0307008-1 to -3 and 0307091-1), quality assurance and quality control (QA/QC) data and chain-of-custody form are included in Appendix D.

## 7.0. SUMMARY AND CONCLUSIONS

Based on the data collected from the site, AGE concludes:

- Petroleum hydrocarbon-impacted soil appears to be limited to the former UST areas, to a depth of between 10 and 15 feet bsg. TCE has been detected at a depth of 15 feet bsg in previous soil borings adjacent to, but up-gradient of the former waste oil UST (in the AGE-prepared *Preliminary Subsurface Investigation* report, March 1999). The chlorinated cleaning solvent TCE, commonly use for de-greasing, was detected at low concentrations in soils samples at a depth of 15 feet bsg in the area of the waste oil tank. The vertical or lateral extent of the TCE contamination is defined within the City of Oakland Right-Of-Way, which consist of the southern sidewalk of 15 Street and some southern portion of 15 Street.
- Petroleum hydrocarbon-impacted soil at the site was encountered in the vicinity of the former UST/current UST within East 15<sup>th</sup> Street. The impacted soil was encountered in a somewhat narrow zone from depths of approximately 5 to 10 feet bsg. Hydrocarbon-impacted soil was encountered east of the UST at a depth of 10 feet bsg and not detected under the building at the site (borings).
- The highest concentrations of dissolved petroleum hydrocarbons and solvents were detected within the former waste oil UST area. Since solvents were detected in ground water but not in the soil at the former UST excavation, there is the possibility of an other-than-UST-release



origin for the solvents.

- Benzene, TCE and cis-1,2-DCE were detected at levels that exceeds the DHS' maximum contaminant level for these solvents in drinking water.
- Diesel fuel or motor oil-impacted ground water on the car lot appears to have originated from a diesel or heating-oil fuel matrix. The laboratory was consulted to decipher the make-up the petroleum-hydrocarbons detected in the water sample. A mix of low concentration diesel and high concentration oil was well pronounced in the laboratory data. This mix of hydrocarbons, with the absence of gasoline and BTEX compounds, suggests a heating oil make-up of a petroleum release, or possibly two releases: one motor oil only and/or diesel fuel only release requiring two sources.
- The lack of detection of MTBE in soil samples and the water sample collected from the site suggests that the release of fuels is relatively old, possibly more than twenty years old.
- The lack of detection of fuels or oil in the service bay indicates no significant releases of petroleum in the area in which samples were collected.

#### REGIONAL GROUND WATER THREAT

- Ground water in the Oakland area occurs under both confined and unconfined conditions. The ground water occurs in the Alameda Bay Plain Ground Water Basin (formerly the East Bay Area of the Santa Clara Valley Ground Water Basin, Department of Water Resources [DWR] Ground Water Basin No. 2-9.01). The Santa Clara Valley Ground Water Basin is a 580-square mile basin drained primarily by the Guadalupe River and Alameda, Coyote, Redwood and San Francisquito Creeks. The ground water occurs in younger and older alluvium and is used intensively for domestic, industrial and irrigation uses (DWR, 1975, *California's Ground Water*). Bulletin 118 and DWR, 1980, *Ground Water Basins in California*, Bulletin 118-80). No domestic water wells, state or federal water wells were identified within a 1-mile radius. Therefore the ground water at the site is not endangered by the release of hydrocarbons from the former UST. Table 5 depicts near by releases of petroleum hydrocarbons.

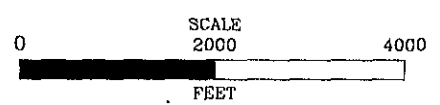
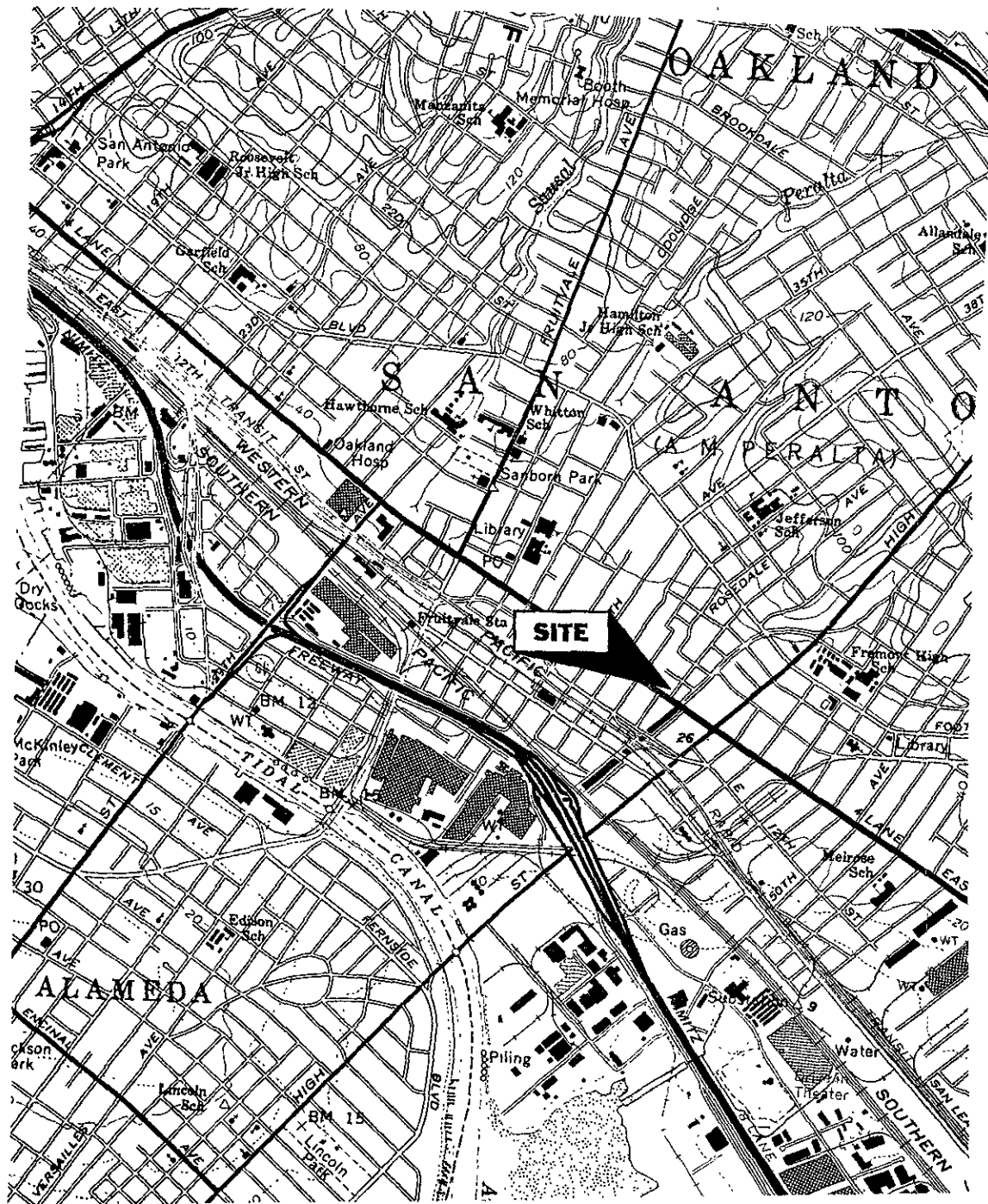
#### 8.0. RECOMMENDATION

Based on the findings of the environmental activities recounted in this report, AGE recommends site closure and well abandonment.

## 9.0. LIMITATIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the geologic/hydrogeologic conditions at the site for the purpose of this investigation are made from a limited number of available data points (i.e. grab ground water and soil samples) and subsurface conditions may vary away from these data points. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

**FIGURES**



LOCATION MAP  
CONTINENTAL VOLVO  
4030-4122 EAST 14TH STREET  
OAKLAND, CALIFORNIA

 **Advanced**  
GeoEnvironmental, Inc.  
of Northern California

PROJECT NO. AGE-NC-99-0556	FILE: CONI	FIGURE:
DATE: 10 MARCH 1999	DRAWN BY: MAC	1

# TABLES

Section of 1.5 ft / WD / 10 ft from soil

Depth

**TABLE 1**  
**ANALYTICAL RESULTS OF SOIL AND WATER SAMPLES**  
 EPA 8015m/8020/8260  
 Former Continental Volvo  
 4030 East 14<sup>th</sup> Street, Oakland, California

Sample I.D.	Date	TPH-g	TPH-d	TPH-oil	Benzene	Toluene	Ethyl benzene	Xylenes	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol
P1-10	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P2-10	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P3-10	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P4-3	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P5-7	01/26/98	42	150	660	0.082	0.07	0.033	0.4	--	--	<0.05	--	--	--	--
P5-10	01/26/98	8.8	59	280	0.008	0.01	0.008	0.05	--	--	<0.05	--	--	--	--
P5-15	01/26/98	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--	--	--	--
P6-10	01/26/98	53	240	1,200	<0.01	0.098	<0.01	0.45	--	--	<0.2	--	--	--	--
P6-15	01/26/98	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--	--	--	--
P8-10	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P9-10	01/26/98	<1.0	<1.0	<5.0	--	--	--	--	--	--	--	--	--	--	--
P11-10	01/26/98	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--	--	--	--
P12-10	01/26/98	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--	--	--	--
P12-15	01/26/98	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--	--	--	--
Tank1-E	04/04/00	23	1,200	360	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
Tank1-W	04/04/00	33	1,100	340	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--
Tank2-N	04/04/00	360	680	1,500	<0.05	0.26	<0.08	0.42	--	--	--	--	--	--	--
Tank2-S	04/04/00	120	790	2,000	0.07	0.20	0.059	2.4	--	--	--	--	--	--	--
Tank2	04/04/00	180	68,000	200,000	23	0.66	<0.5	<0.5	--	--	--	--	--	--	--
SP1-2	04/04/00	5.9	390	100	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--

NO  
S  
W

AN  
← EPHOL  
WD / 10  
SAMPLE

Tank P112

Sample I.D.	Date	TPH-g	TPH-d	TPH-oil	Benzene	Toluene	Ethyl benzene	Xylenes	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol
P13-15	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
P13-25	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
P13-35	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
P14-10	01/08/01	260	1,000	2,200	0.51	0.23	0.49	1.3	---	---	---	---	---	---	---
P14-15	01/08/01	<1.0	2.7	8.9	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
P14-20	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<1.0	<0.25
P14-30	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<1.0	<0.25
P14-35	01/08/01	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<1.0	<0.25
MW1-5	06/04/02	<1.0	2.7	19	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
MW1-10	06/04/02	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
MW1-15	06/04/02	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
MW1-20	06/04/02	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
MW3-11	06/04/02	2.6	120	26	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
MW3-15	06/04/02	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	<2.5	<0.25
GB1-9	06/30/03	4.6	1,400	1,300	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	---	---
GB1-13	06/30/03	5.1	<10	<10	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GB1-17	06/30/03	<1.0	<10	<10	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GB2-8	06/30/03	1.1	750	<10	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GB2-10	06/30/03	2.5	4,100	3,400	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.25	---	---
GB2-12	06/30/03	<1.0	<10	<10	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GB2-16	06/30/03	<1.0	<10	<10	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
MW2-10	07/19/03	<1.0	<10	--	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.2	---	---
MW2-15	07/19/03	<1.0	<10	--	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
MW2-20	07/19/03	<1.0	<10	--	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---

Notes:

Data in milligrams/kilograms unless specified (\*micrograms per kilogram: µg/kg)

< - Non-detect

TPH - Total petroleum hydrocarbons (g - gasoline, d - diesel)

BTEX - Benzene, toluene, ethylbenzene and xylenes

PCB - Polychlorinated biphenols

TCE - Trichloroethane

NW-1/TP-118

**TABLE 3**  
**ANALYTICAL RESULTS OF WATER SAMPLES EPA 8015m/8020/8080**  
 Former Continental Volvo  
 4030 East 14<sup>th</sup> Street, Oakland, California

Sample I.D.	Date	TPH-g	TPH-d	TPH-oil	Benzene	Toluene	Ethyl benzene	Xylenes	DIPE	ETBE	MTBE	TAME	TBA	Methanol	Ethanol
P12-H <sub>2</sub> O	01-26-98	<50	6,800	14,000	<0.5	<0.5	<0.5	<0.5	--	--	<5.0	--	--	--	--
Tank-H <sub>2</sub> O	04-04-00	180	68,000	200,000	23	0.66	<0.5	<0.5	--	--	--	--	--	--	--
UST2-H <sub>2</sub> O	01-08-01	61	8,700	54,000	3.0	<0.5	<0.5	<0.5	<1.0	<1.0	1.4	<1.0	<5.0	<200	<50
P13-H <sub>2</sub> O	01-08-01	<50	1,100	430	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<2.5	<12.5	<500	<125
UST well	07-19-02	52	3,100	--	3.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
MW-1	07-19-02	78	200	--	5.4	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0	--	--
MW-3	07-19-02	<50	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
UST well	04-02-03	250	<50	<1,000	<0.5	<0.5	<0.5	<1.0							
MW-1	04-02-03	120	<50	<1,000	10	<0.5	1.7	<1.0							
MW-3	04-02-03	450	<50	<1,000	<0.5	<0.5	<0.5	<1.0							
UST well	06-30-03	<50	<50	--	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MW-1	06-30-03	1,900	<50	--	10	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MW-3	06-30-03	<50	<50	--	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MW-2	07-21-03	110	<50	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--

**Notes:**

Data in micrograms per liter (µg/l)

< - Non-detect

TPH - Total petroleum hydrocarbons (g - gasoline, d - diesel)

BTEX - Benzene, toluene, ethylbenzene and xylenes

PCB - Polychlorinated biphenols

TCE - Trichloroethane

*[Handwritten notes and signatures on the left margin, including "Copy" and "B. J. ..."]*



**TABLE 2**  
**ANALYTICAL RESULTS OF SOIL SAMPLES EPA 8080/3550 & 8260**  
 Former Continental Volvo - 4030 East 14<sup>th</sup> Street, Oakland, California

Sample I.D.	Date	TCE	PCE	1,2-Dichlorobenzene	cis-1,2-Dichloroethane
P5-7	01/26/99	<5.0	<5.0	11	<5.0
P5-15	01/26/99	110	<5.0	<5.0	<5.0
P6-10	01/26/99	14	<5.0	17	<5.0
P6-15	01/26/99	140	<5.0	<5.0	<5.0
P11-10	01/26/99	<5.0	--	<5.0	<5.0
P12-15	01/26/99	<5.0	--	<5.0	<5.0
Tank2-N	04/04/00	--		--	--
Tank2-S	04/04/00	--		--	--
P13	01/08/01	65		<1.0	43
P14-20	01/08/01	7.2		<5.0	<5.0
P14-30	01/08/01	17		<5.0	<5.0
P14-35	01/08/01	<5.0		<5.0	<5.0
MW1-5	06/04/02	<5.0	<5.0	<5.0	<5.0
MW1-10	06/04/02	<5.0	<5.0	<5.0	<5.0
MW1-15	06/04/02	<5.0	<5.0	<5.0	<5.0
MW1-20	06/04/02	<5.0	<5.0	<5.0	<5.0
MW3-11	06/04/02	<5.0	<5.0	<5.0	<5.0
MW3-15	06/04/02	<5.0	<5.0	<5.0	<5.0
GB1-9	06/30/03	<5.0	<5.0	<5.0	<5.0
GB2-10	06/30/03	<5.0	<5.0	<5.0	<5.0
MW2-10	07/19/03	<5.0	<5.0	<5.0	<5.0

**Notes:**

Data in micrograms per kilogram: µg/kg

< - Non-detect

TPH - Total petroleum hydrocarbons (g - gasoline, d - diesel)

BTEX - Benzene, toluene, ethylbenzene and xylenes

PCB - Polychlorinated biphenols

TCE - Trichloroethane

**TABLE 4**  
**ANALYTICAL RESULTS OF WATER SAMPLES**  
 EPA 8260  
 Former Continental Volvo  
 4030 East 14<sup>th</sup> Street, Oakland, California

Sample I.D.	Date	TCE	PCE	1,2-Dichlorobenzene	cis-1,2-Dichloroethane	1,2-Dichloroethane
P12-H <sub>2</sub> O	01/26/99	<0.5	24	<0.5	<0.5	--
Tank2-H <sub>2</sub> O	04/04/00	---	<1.0	---	---	--
UST#2	01/08/01	<1.0	<1.0	2.8	<1.0	--
MW-1	07-19-02	210	<5.0	<5.0	110	7.8
MW-3	07-19-02	12	<0.5	<0.5	0.75	<0.5
UST well	04-02-03	<5.0	<5.0	2.2	<0.5	<0.5
MW-1	04-02-03	190	<1.0	6.6	58	7.6
MW-3	04-02-03	24	<1.0	<1.0	<1.0	<1.0
UST well	06-30-03	<1.0	<1.0	<1.0	<1.0	<1.0
MW-1	06-30-03	170	<1.0	<1.0	52	4.5
MW-3	06-30-03	23	<1.0	<1.0	<1.0	<1.0
MW-2	07-21-03	4.1	<1.0	<1.0	2.1	<1.0

Notes:

Data in micrograms per liter: µg/l)

< - Non-detect

TPH - Total petroleum hydrocarbons (g - gasoline, d - diesel)

BTEX - Benzene, toluene, ethylbenzene and xylenes

PCB - Polychlorinated biphenols

TCE - Trichloroethane

**TABLE 5****Sites of Potential Environmental Concern Within ½ Mile of the Subject Property**4030 East 14<sup>th</sup> Street, Oakland, California

COMPILED FROM THE EDR DATABASE

<b>Site Name and Address EDR Map I.D.</b>	<b>Environmental Status</b>	<b>Distance and Direction</b>	<b>Regulatory Lists</b>
Continental Volvo 4030 E. 14 <sup>th</sup> Street EDR #A1, A2	Soil-only waste oil release in 1992; leak being confirmed.	Subject property	LUST, Cortese, CAL FID, UST HAZNET
Dorothy Day Trust 4028 E. 14 <sup>th</sup> Street EDR #A5	Waste oil release in 1996; preliminary site assessment underway.	<1/8 mile W	LUST
Pressure Cast Products 4201 E. 14 <sup>th</sup> Street EDR #B3	Waste oil release in 1996; signed off.	<1/8 mile SSE	LUST
Grand Auto 4240 E. 14 <sup>th</sup> Street EDR #B4	Unspecified	<1/8 mile SSE	Cortese
Union Oil #2656 4251 E. 14 <sup>th</sup> Street EDR #C7-C9	Waste oil release in 1990; signed off.	<1/8 mile S	LUST, UST, Notify 65, CAL FID, HAZNET
Motor Partners 1236 41 <sup>st</sup> Avenue EDR #E14	Unspecified release in 1991; signed off.	<1/8 mile SW	LUST
Pressure Cast Products 4210 E. 12 <sup>th</sup> Street EDR #D18, D19	Waste oil release in 1994; case closed	<1/8 mile SSW	LUST, TRIS, UST, HAZNET
Motor Partners 1234 40 <sup>th</sup> Avenue EDR #G27	Soil only gasoline release in 1992; preliminary site assessment underway.	1/8 - 1/4 mile WSW	LUST, Cortese

Site Name and Address EDR Map I.D.	Environmental Status	Distance and Direction	Regulatory Lists
Chevron 850 W. Grand Avenue EDR #I38	Ground water affected gasoline release in 1992; signed off.	1/8 - 1/4 mile SSW	LUST, CA SLIC
San Leandro St. Proj. RGA/Dutch Boy Paint/NL INDS Inc. Pigments and Chemical Division/ Proper Management 4701 San Leandro St. EDR #J42, J43	Unspecified release; status unknown. Part of DTSC Voluntary Cleanup Program in April 2000. Large-quantity generator of waste oil and other inorganic solid waste.	1/8 - 1/4 mile SSW	LUST, Cal-Sites, CERC-NFRAP, FINDS, RCRIS-LQG, UST, CA FID, HAZNET
Everett Stern Property 1033 44 <sup>th</sup> Avenue EDR #L48	Soil-only diesel release in 1988; signed off.	1/8 - 1/4 mile S	LUST
S.L.O. County Farm Supply 675 Tank Farm Road EDR # N53	Ground-water affected gasoline release in 1989; signed off.	1/8 - 1/4 mile ENE	LUST
BP 4250 Foothill Blvd. EDR # N57	Ground-water affected, miscellaneous motor vehicle fuels release in 1992; leak being confirmed.	1/8 - 1/4 mile ENE	LUST, Cortese
Emma Souza 1421 45 <sup>th</sup> Avenue EDR #Q58, Q59	Gasoline release in 1998; signed off.	1/8 - 1/4 mile SE	LUST, HAZNET
Stop N Go Market 4100 Foothill Blvd. EDR #R60-R62	Soil-only gasoline release in 1986; signed off	1/8 - 1/4 mile NE	LUST, UST, CA FID
Chevron #90076 4265 Foothill Blvd. EDR #N63-N65	Ground-water affected gasoline release in 1989; remediation plan developed.	1/8 - 1/4 mile ENE	LUST, UST, HAZNET

Site Name and Address EDR Map I.D.	Environmental Status	Distance and Direction	Regulatory Lists
County Government Center 1050 Monterey Street EDR #S66	Soil-only fuel oil released in 1988; signed off. Waste oil release in 1992; remediation currently underway.	1/8 - 1/4 mile ENE	LUST
BP 4280 Foothill Blvd. EDR #S67	Unspecified	1/4 - 1/2 mile ENE	Cortese
Eastwood Apartments 1715 High Street EDR #S69	Unspecified	1/4 - 1/2 mile ENE	LUST
Guy's Service Station 3820 San Leandro St. EDR #70	Gasoline release in 1998; preliminary site assessment underway.	1/4 - 1/2 mile WSW	LUST
The Clorox Company 850 42 <sup>nd</sup> Avenue EDR #T71	Waste contamination; certified as having been remedied satisfactorily under DTSC oversight in 1995.	1/4 - 1/2 mile SW	RCRIS-SQG, FINDS, CERC-NFRAP, CA SLIC, Cal-Sites, CA BEP
Shell Oil Company 4411 Foothill Blvd. EDR #72	Ground-water affected waste oil release in 1992; remediation plan developed.	1/4 - 1/2 mile E	LUST, UST, CA FID, RCRIS-SQG, FINDS, Cortese
Oakland Unified School District 900 High Street EDR #73	Soil-only gasoline release in 1990; signed off in 1992. Gasoline release in 1992; signed off in 1995.	1/4 - 1/2 mile SSW	LUST, UST
Tony's Express Auto Service 3609 E. 14 <sup>th</sup> Street EDR #U75-U77	Gasoline release in 1998; preliminary site assessment underway.	1/4 - 1/2 mile WNW	LUST, Cortese, HAZNET, UST
On Time Towing 3800 Wattling Street EDR #78	Gasoline release in 1995; signed off.	1/4 - 1/2 mile WSW	LUST, UST

Site Name and Address EDR Map I.D.	Environmental Status	Distance and Direction	Regulatory Lists
Former Continental Baking Company 1010 46 <sup>th</sup> Street EDR #V79-V82	Soil-only diesel release in 1993; signed off.	¼ - ½ mile SSE	LUST, Cortese
August Manufacturing 1466 36 <sup>th</sup> Avenue EDR #83	Ground-water affected gasoline release in 1990; preliminary site assessment underway	¼ - ½ mile NW	LUST, Cortese
Norcal 1234 47 <sup>th</sup> Avenue EDR #W85	Soil-only waste oil release in 1988; leak being confirmed.	¼ - ½ mile SE	LUST, Cortese
Cohn Warehouse 1212 47 <sup>th</sup> Avenue EDR #W86	Gasoline release in 1992; signed off.	¼ - ½ mile SE	LUST, UST
Bacon Property 750 High Street EDR #X87	Unspecified release.	¼ - ½ mile SSW	LUST
Ed's Auto Wreckers 752 High Street EDR #X88	Unspecified release.	¼ - ½ mile SSW	Notify 65, Cortese
Chevron 3616 San Leandro St. EDR #90	Gasoline release in 1988; status unknown.	¼ - ½ mile W	LUST
Peterson Property 1066 47 <sup>th</sup> Avenue EDR #91	Ground-water affected diesel release in 1988; signed off.	¼ - ½ mile SSE	LUST
Southern Pacific Transport Company 744 High Street EDR #X92	Gasoline release in 1986; preliminary site assessment underway.	¼ - ½ mile SSW	LUST, Cortese



Site Name and Address EDR Map I.D.	Environmental Status	Distance and Direction	Regulatory Lists
Exxon Service Station 720 High Street EDR #Y95	Ground-water affected gasoline release in 1987; remediation plan developed	¼ - ½ mile SSW	LUST, UST, Cortese
Chau's Auto Port 1259 48 <sup>th</sup> Avenue EDR #96	Ground-water affected gasoline release in 1987; signed off.	¼ - ½ mile SE	LUST
"TSD" American Can Co./American National Can Co. 3801 E. 8 <sup>th</sup> Street EDR #Z97	Diesel release in 1991; case closed.	¼ - ½ mile WSW	LUST, FINDS, RCRIS-LQG, CORRACTS, CERC-NFRAP, Cortese
Bayview Federal Bank 1437 48 <sup>th</sup> Avenue EDR #104	Soil-only diesel release in 1992; signed off.	¼ - ½ mile ESE	LUST, HAZNET
Former Ekotek 4200 Alameda Avenue EDR #113	Oil and grease waste release in 1984; leak being confirmed.	¼ - ½ mile SSW	LUST, Cortese, CA BEP, CA SLIC, Cal-Sites
United States Cold Storage 3925 Alameda Avenue EDR #AB114	Soil-only gasoline release in 1988; preliminary site assessment underway.	¼ - ½ mile SW	LUST, CA FID, UST, Cortese
Roy Hatton Project 752 High Street EDR #AC117	Ground-water affected motor oil release in 1989; signed off.	¼ - ½ mile SSW	LUST
The Learner Co. 768 46 <sup>th</sup> Avenue EDR #AD118	Unspecified release(s).	¼ - ½ mile S	LUST
Oakland Insulation Contractors 763 46 <sup>th</sup> Avenue EDR #AD121	Unspecified release(s); case closed.	¼ - ½ mile S	LUST, UST, HAZNET

<b>Site Name and Address EDR Map I.D.</b>	<b>Environmental Status</b>	<b>Distance and Direction</b>	<b>Regulatory Lists</b>
Lerner Company 3675 Alameda Avenue EDR #AE126	Soil-only gasoline release in 1988; signed off.	¼ - ½ mile SW	LUST



**APPENDIX A**

Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	10 feet	
		Date:	January 1999	
Drilling Co.:	AGE	Logged by:	Little	
Rig/Auger Type:	Geoprobe 5400	Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P1-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P1-10	0	-	GM		Tan, moist, silty GRAVEL, no hydrocarbon (HC) odor.
15						Soil boring total depth 10 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
20						

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	20 feet	
		Date:	January 1999	
Drilling Co.:	AGE	Logged by:	Little	
Rig/Auger Type:	Geoprobe 5400	Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P2-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P2-10	0	-	GM		Tan, moist, silty GRAVEL, no HC odor.
15	P2-15	0	-	SM		Tan, moist, silty SAND, no HC odor.
20	P2-20	0	-	CL		Tan, moist, silty CLAY, no HC odor.
						Soil boring total depth 20 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.: <b>P3</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	10 feet	
		Date:	January 1999	
Drilling Co.:	AGE	Logged by:	Little	
Rig/Auger Type:	Geoprobe 5400	Reviewed by:	Henderson	



Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P3-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P3-10	0	-	CL		Tan, moist, silty CLAY, no HC odor.
15						Soil boring total depth 10 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
20						

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Project:	Continental Volvo	Project No.:	99-0556	<b>BORING NO.:</b>  <b>P4</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	5 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
	P4-3	0	-	GM		Brown, dry, silty GRAVEL, no hydrocarbon (HC) odor.
5	P3-5	0	-	CL		Tan, dry, silty CLAY, no HC odor.
10						Soil boring total depth 5 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
15						
20						

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	15 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	Page 1 of 1

**P5**

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P5-5	61	-	CL		Green gray, dry, silty CLAY, strong hydrocarbon (HC) odor.
	P5-7	62	-	CL		Gray, moist, silty CLAY, strong HC odor.
10	P5-10	43	-	CL		Tan, moist, silty CLAY, slight HC odor.
15	P5-15	0		CL		Tan, moist, silty CLAY, no HC odor.
						Soil boring total depth 15 feet bsg Soil boring backfilled complete with portland cement ground water was not encountered
20						

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.: <b>P6</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	30 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	



Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P6-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P6-10	15	-	GM		Tan, moist, silty GRAVEL, slight HC odor.
15	P6-15	0	-	CL		Tan, moist, silty CLAY, no HC odor.
20						Soil boring total depth 30 feet bsg, sampled to 15 feet bsg Soil boring backfilled complete with portland cement ground water was not encountered

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	10 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	Page 1 of 1
		Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P7-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P7-10	0	-	CL		Tan, moist, silty CLAY, no hydrocarbon (HC) odor.
15						
20						
Soil boring total depth 10 feet bsg Soil boring backfilled complete with portland cement ground water was not encountered						

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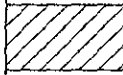






Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	10 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	Page 1 of 1

Depth (feet)	Sample ID	CVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P8-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P8-10	0	-	CL		Tan, moist, silty CLAY, no hydrocarbon (HC) odor.
15						Soil boring total depth 10 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
20						

Project:	Continental Volvo	Project No.:	99-0556	BORING NO.: <b>P9</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	10 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
	P9-3	0	-	CL		Brown, dry, silty CLAY, no hydrocarbon (HC) odor.
5	P9-5	0	-	GM		Tan, dry, silty GRAVEL, no HC odor.
10	P9-10	0	-	GM		Tan, moist, silty GRAVEL, no HC odor.
15						Soil boring total depth 10 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
20						

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.:
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	15 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	Page 1 of 1
		Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P10-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P10-10	0	-	GM		Tan, moist, silty GRAVEL, no HC odor.
15	P10-15	0	-	GM		Tan, dry, silty GRAVEL, no HC odor.
<p>Soil boring total depth 15 feet bsg  Soil boring backfilled completely with portland cement  ground water was not encountered</p>						

Project:	Continental Volvo	Project No.:	99-0556	BORING NO.: <b>P11</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	15 feet	
		Date:	January 1999	
Drilling Co.:	AGE	Logged by:	Little	
Rig/Auger Type:	Geoprobe 5400	Reviewed by:	Henderson	



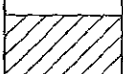
Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P11-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P11-10	0	-	SM		Tan, moist, silty SAND, no HC odor.
15	P11-15	0	-	CL		Tan, wet, silty CLAY, no HC odor.
						Soil boring total depth 15 feet bsg Soil boring backfilled completely with portland cement ground water was not encountered
20						

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Project:	Continental Volvo	Project No.:	99-0556	BORING NO.: <b>P12</b>  Page 1 of 1
Site Address:	4030 International Blvd. Oakland, CA 94601	Total Depth:	15 feet	
Drilling Co.:	AGE	Date:	January 1999	
Rig/Auger Type:	Geoprobe 5400	Logged by:	Little	
		Reviewed by:	Henderson	

Depth (feet)	Sample ID	OVA Reading (ppm)	Blow Counts (per 6")	USCS Class	Graphic Log	Lithologic Description
5	P12-5	0	-	GM		Tan, dry, silty GRAVEL, no hydrocarbon (HC) odor.
10	P12-10	0	-	GM		Tan, moist, silty GRAVEL, no HC odor.
15	P12-15	0	-	CL		Tan, wet, silty CLAY, no HC odor.
20						Soil boring total depth 15 feet bsg Soil boring backfilled completely with portland cement ground water encountered at 10 to 15 feet

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**BORING LOG**

BOREHOLE NO.: **P13**

TOTAL DEPTH: **35 feet**

Project: Continental Volvo	Drilling Co.: Enviroprobe
Site Location: 4030 East 14th Street Oakland California	Rig/Auger Type: Geoprobe 5400 / 1.25" rods
Project No.: AGE-NC-99-0556	Logged By: W. LITTLE
	Reviewed By: nch
	Date(s) Drilled: 01/18/01

Notes: BACKFILLED WITH PORTLAND CEMENT Ground water sample collected at 35 feet bsg	☒ Water level during drilling ☑ Water level in completed well	Page 1 of 1
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Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					
-5					
-10	P13-10				GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, hydrocarbon (HC) odor.
-15	P13-15				GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, HC odor.
-20	P13-20				CL: CLAY, gray, damp, low t, med plast, HC odor.
-25	P13-25				CL: CLAY, gray, damp, low t, med plast, HC odor.
-30	P13-30				SM: SILTY SAND, 100% fine sand, gray, damp, low HC odor.
-35	P13-35				CL: CLAY, gray, damp, low t, med plast, HC odor.
-40					



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**BORING LOG**

BOREHOLE NO.: **P14**

TOTAL DEPTH: **35 feet**

Project: Continental Volvo	Drilling Co.: Enviroprobe
Site Location: 4030 East 14th Street Oakland California	Rig/Auger Type: Geoprobe 5400 / 1.25" rods
Project No.: AGE-NC-99-0556	Logged By: W. LITTLE
	Reviewed By: nch
	Date(s) Drilled: 01/18/01

Notes: BACKFILLED WITH PORTLAND CEMENT  
Ground water sample not collected, no water at 35 feet bsg

☒ Water level during drilling  
☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
0					
-5					
-10	P14-10				GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, hydrocarbon (HC) odor.
-15	P14-15				GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, HC odor.
-20	P14-20				CL: CLAY, gray, damp, low t, med plast, HC odor.
-25	P14-25				
-30	P14-30				
-35	P14-35				
-40					



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**BORING LOG**

BOREHOLE NO.: MW-1

TOTAL DEPTH: **20 FEET**

Project: Continental Volvo	Drilling Co.: West Haz Mat
Site Location: 4030 East 14th Street Oakland California	Rig/Auger Type: CME75/8 inch hollow stem
Project No.: AGE-NC-99-0556	Logged By: W. LITTLE
	Reviewed By: C LEE
	Date(s) Drilled: 04 june 2002

Notes: completed as ground water monitoring well MW-1  
ground water encountered at ten feet bsg

☒ Water level during drilling  
☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description	Well Completion	Well Description
0					CL: CLAY, gray, damp, low toughness, med plasticity, angular gravel, hydrocarbon (HC) odor.		Cement grout seal from .5' to 6' bsg.
-5	MW1-5		0		CL: CLAY, gray, damp, low t, med plast, HC odor.		Bentonite seal from 6' to 8' bsg.
-10	MW1-10 MW1-11		890		GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, HC odor.		#2/12 sand from 8' to 20' bsg.
-15	MW1-15		0		CL: CLAY, gray, damp, low toughness, med plasticity, low HC odor		Screened interval from 10' to 20' bsg.
-18					SM: SILTY SAND, gray, damp, 30 % fines, 100% fine sand, no HC odor.		
-20	MW1-20		0		CL: CLAY, brown, damp, low toughness, med plasticity, no HC odor.		
-25						Cap at 20'.	





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## BORING LOG

BOREHOLE NO.: MW-3

TOTAL DEPTH: 20 FFET

Project: Continental Volvo	Drilling Co.: West Haz Mat
Site Location: 4030 East 14th Street Oakland California	Rig/Auger Type: CME75/8 inch hollow stem
Project No.: AGE-NC-99-0556	Logged By: W. LITTLE
	Reviewed By: C LEE
	Date(s) Drilled: 04 june 2002

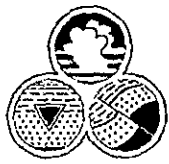
Notes: completed as ground water monitoring well mw-3  
ground water encountered at ten feet bsg

☒ Water level during drilling  
☒ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description	Well Completion	Well Description
0					CL: CLAY, gray, damp, low toughness, med plasticity, angular gravel, hydrocarbon (HC) odor.		
-5	MW3-5		0		CL: CLAY, gray, damp, low t, med plast, HC odor.		Cement grout seal from 5' to 6' bsg.
-10	MW3-10		890		GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, HC odor.		Bentonite seal from 6' to 8' bsg.
-15	MW3-15		0		CL: CLAY, gray, damp, low toughness, med plasticity, low HC odor.		#2/12 sand from 8' to 20' bsg.
-20	MW3-20		0		GP: POORLY GRADED GRAVEL, with 40% fines, gray, dry to damp, angular clasts, HC odor.		Screened interval from 10' to 20' bsg.
-20					CL: CLAY, brown, damp, low toughness, med plasticity, no HC odor.		Cap at 20'.
-25							





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**BORING LOG**

BOREHOLE NO.: **GB2**

TOTAL DEPTH: **24 feet**

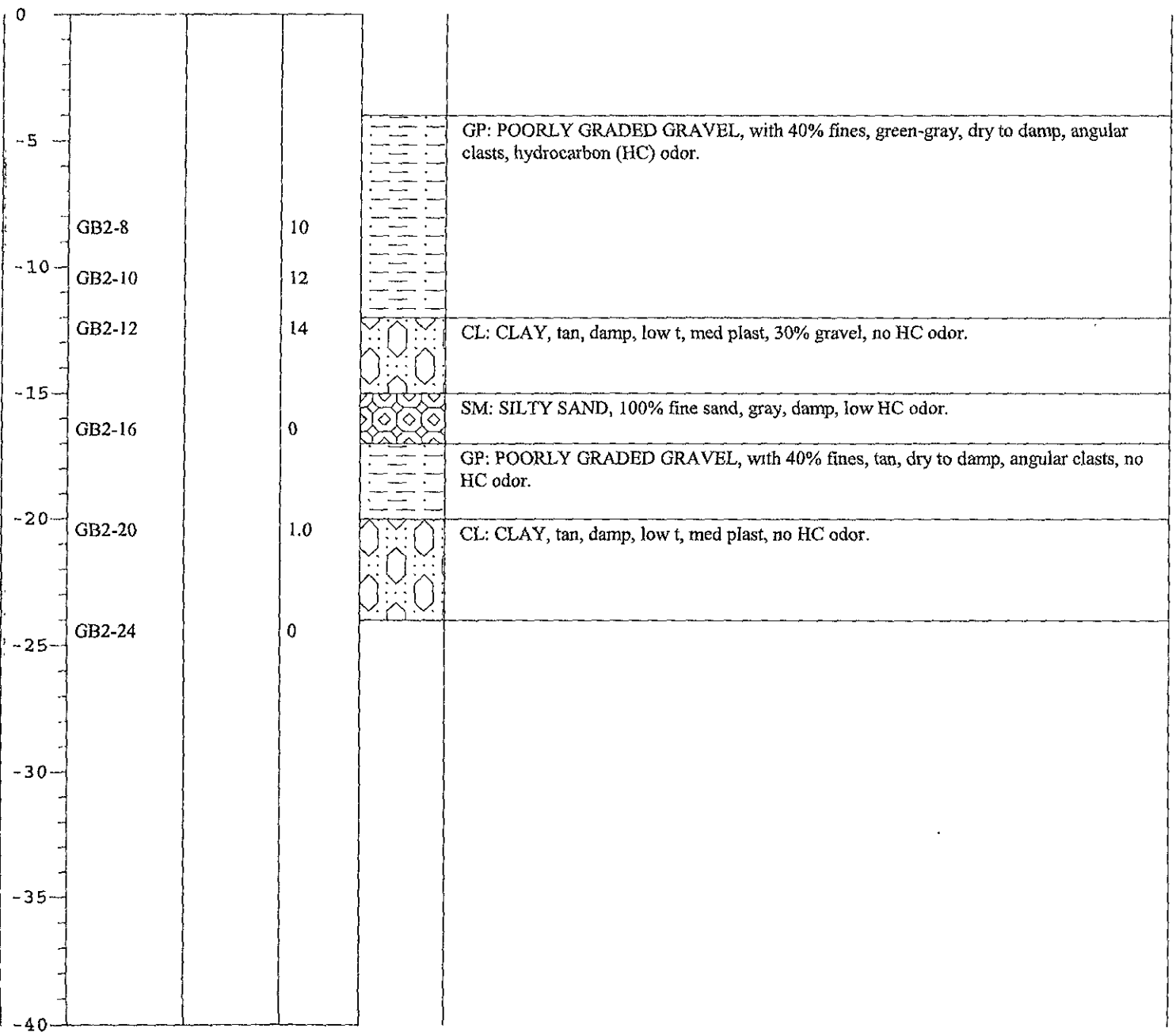
Project: Continental Volvo  
Site Location: 4030 East 14th Street  
Oakland California  
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Project No.: AGE-NC-99-0556

Drilling Co.: Enviroprobe  
Rig/Auger Type: Geoprobe 5400 / 1.25" rods  
Logged By: W. LITTLE  
Reviewed By: C LEE  
Date(s) Drilled: 30 june 2003

Notes: BACKFILLED WITH PORTLAND CEMENT  
ground water not detected in soil borings

- ☒ Water level during drilling
- ☒ Water level in completed well

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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**Advanced  
GeoEnvironmental, Inc.**  
837 Shaw Road, Stockton, CA 95215  
(209) 467-1006 FAX: (209) 467-1118

# BORING LOG

BOREHOLE NO.: **GB1**

TOTAL DEPTH: **24 feet**

Project: Continental Volvo  
Site Location: 4030 East 14th Street  
Oakland California  
---  
Project No.: AGE-NC-99-0556

Drilling Co.: Enviroprobe  
Rig/Auger Type: Geoprobe 5400 / 1.25" rods  
Logged By: W. LITTLE  
Reviewed By: C LEE  
Date(s) Drilled: 30 june 2003

Notes: BACKFILLED WITH PORTLAND CEMENT  
ground water not detected in soil borings

≡ Water level during drilling  
≡ Water level in completed well

Page 1 of 1

Depth	Sample ID	Blows (per 6")	PID (ppm)	Soil Symbol	USCS Class and Soil Description
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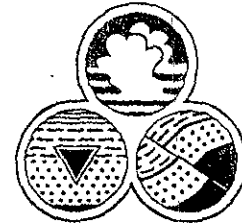
0					
-5					
-10	GB1-9 GB1-10	10 13			CL: CLAY, gray, damp, low t, med plast, 20% gravel, hydrocarbon (HC) odor.
-13	GB1-13	3			CL: CLAY, tan, damp, low t, med plast, no HC odor.
-15		0			SM: SILTY SAND, 100% fine sand, gray, damp, no HC odor.
-17	GB1-17	0			GP: POORLY GRADED GRAVEL, with 40% fines, tan, dry to damp, angular clasts, no HC odor.
-20	GB1-21				CL: CLAY, tan, damp, low t, med plast, no HC odor.
-25					
-30					
-35					
-40					

**APPENDIX B**

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# GeoEnvironmental, Inc.

4005 North Wilson Way, Stockton, CA 95205 • (209) 467-1006 • Fax (209) 467-1118



## Monitoring Well Field Log

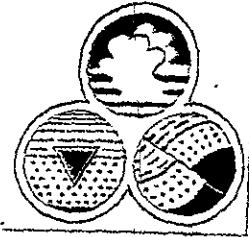
### Well Data

Project Name: <i>Continental Volvo</i>		Project No.: <i>AGE-NC-</i>	Date: <i>4/2/03</i>
Pre-Purge DTW: <i>7.79</i>	Time: <i>1017</i>	Well I.D.: <i>MW 1</i>	
Post-Purge DTW: <i>8.45</i>	Time: <i>1030</i>	Casing Diameter: <i>2"</i> 4"      6" Gal./Ft.:      0.16      0.65      1.47	
Total Depth of Well: <i>20</i>	Well Volume: <i>1.95</i>	Sample Containers: <i>3 UOAS 1 liter</i>	
Sampler(s): <i>RM</i>	Analysis: <i>1,2 DCA + EDB / VOC'S</i> <i>TPH-G+D / BTEX + MTBE / 5 ORYS</i>		
Sample I.D.: <i>MW 1 / 04-02-03</i>			

### Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X	Color/Turbidity	Notes
<i>1020</i>	<i>0</i>	<i>6.82</i>	<i>18.2</i>	<i>1005</i>	<i>clear</i>	<i>odor</i>
<i>1023</i>	<i>2</i>	<i>6.84</i>	<i>18.4</i>	<i>1007</i>	<i>"</i>	<i>"</i>
<i>1026</i>	<i>4</i>	<i>6.87</i>	<i>18.6</i>	<i>1005</i>	<i>"</i>	<i>"</i>
<i>1029</i>	<i>6</i>	<i>6.87</i>	<i>18.6</i>	<i>1004</i>	<i>"</i>	<i>"</i>

Purge Method:	<i>Disp. Bailer</i>		
Sample Method:	<i>Disp. Bailer</i>		Well Integrity:
Sample Time:	<i>1033</i>		Dissolved O <sub>2</sub> :



### Monitoring Well Field Log

#### Well Data

Project Name: <i>Former Cal Verd</i>		Project No.: <i>AGE-NC</i>	Date: <i>7-21</i>
Pre-Purge DTW: <i>8.08</i>	Time: <i>1109</i>	Well I.D.: <i>MW2</i>	
Post-Purge DTW: <i>9.09</i>	Time: <i>1155</i>		
Total Depth of Well: <i>20 FEET</i>	Well Volume: <i>1.90</i>	Casing Diameter: 0.5" <i>2"</i> 4" 6"	Gal/Ft.: 0.01074 0.16 0.65 1.47
Sampler(s): <i>PAZ</i>	Sample Containers: <i>VOA - liter</i>		
Sample I.D.: <i>MW2-7-21</i>	Analysis:		

#### Stabilization Data

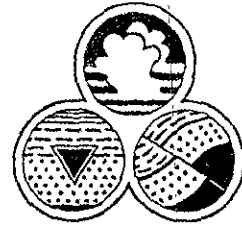
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X	Color/Turbidity	Notes
	<i>0</i>	<i>6.96</i>	<i>20.0</i>	<i>1648</i>	<i>Silty</i>	<i>odorless</i>
<i>1126</i>	<i>3</i>	<i>6.96</i>	<i>20.1</i>	<i>1634</i>	<i>"</i>	<i>spotty Sheen</i>
<i>1133</i>	<i>6</i>	<i>6.85</i>	<i>20.3</i>	<i>1223</i>	<i>"</i>	<i>"</i>
<i>1143</i>	<i>9</i>	<i>6.88</i>	<i>20.5</i>	<i>1088</i>	<i>"</i>	<i>"</i>
<i>1148</i>	<i>12</i>	<i>6.81</i>	<i>20.5</i>	<i>1021</i>	<i>"</i>	<i>"</i>
<i>1152</i>	<i>13<sup>50</sup></i>	<i>6.91</i>	<i>20.5</i>	<i>1117</i>	<i>"</i>	<i>"</i>

Purge Method:	<i>Bailer</i>		
Sample Method:	<i>DISPOSABLE BAILER</i>	Well Integrity:	
Sample Time:	<i>1.200</i>	Dissolved O <sub>2</sub> :	<i>C.</i>
ICM	<i>Hydac</i>	<i>Oakton</i>	% mg/L

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GeoEnvironmental, Inc.

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Monitoring Well Field Log

Well Data

Project Name: <i>Continental Volvo</i>		Project No.: <i>AGE-NC-</i>	Date: <i>4/2/03</i>
Pre-Purge DTW: <i>8.71</i>	Time: <i>9:48</i>	Well I.D.: <i>MW 3</i>	
Post-Purge DTW: <i>10.20</i>	Time: <i>10:02</i>		
Total Depth of Well: <i>.20</i>	Well Volume: <i>1.80</i>	Casing Diameter: 2" 4" 6" Gal./Ft.: 0.16 0.65 1.47	
Sampler(s): <i>RM</i>	Sample Containers: <i>3 UOAS 1 liter</i>		
Sample I.D.: <i>MW 3 / 04-02-03</i>	Analysis: <i>1/2 DCA + EDB / VOC'S</i> <i>TPH, ALB / BTEX + MTBE / 5 oxys</i>		

Stabilization Data

Time	Volume (gallons)	pH	Temp. °C	Cond μS/cm X	Color/Turbidity	Notes
<i>951</i>	<i>0</i>	<i>6.72</i>	<i>19.5</i>	<i>668</i>	<i>Clear</i>	<i>no odor</i>
<i>954</i>	<i>2</i>	<i>6.84</i>	<i>19.4</i>	<i>688</i>	<i>Somewhat</i>	<i>no odor</i>
<i>957</i>	<i>4</i>	<i>6.87</i>	<i>19.6</i>	<i>707</i>	<i>Turb/cloudy</i>	<i>no odor</i>
<i>1000</i>	<i>6</i>	<i>6.92</i>	<i>19.6</i>	<i>717</i>	<i>cl</i>	<i>cl</i>
<i>Note → Well recharged by time of sampling, 8:30</i>						

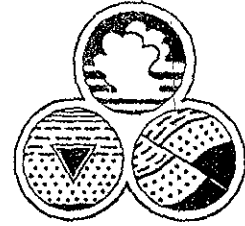
Purge Method:	<i>Disp. Bailer</i>		
Sample Method:	<i>Disp. Bailer</i>	Well Integrity:	<i>good</i>
Sample Time:	<i>10:10</i>	Dissolved O <sub>2</sub> :	



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## Monitoring Well Field Log

### Well Data

Project Name: <i>Continental Volvo</i>		Project No.: <i>AGE-NC-</i>	Date: <i>4/2/03</i>
Pre-Purge DTW: <i>6.29</i>	Time: <i>1037</i>	Well I.D.: <i>UST</i>	
Post-Purge DTW: <i>6.35</i>	Time: <i>1056</i>	Casing Diameter: 2" <i>4"</i> 6" Gal./Ft.: 0.16 0.65 1.47	
Total Depth of Well: <i>9'</i>	Well Volume: <i>1.76</i>	Sample Containers: <i>3 UOAS 1 liter</i>	
Sampler(s): <i>RM</i>	Analysis: <i>1,2 DCA + EDB / VOC'S</i> <i>TPH-G+D / BTEX + MTBE / 5 OXYS</i>		
Sample I.D.: <i>UST / 04-02-03</i>			

### Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X	Color/Turbidity	Notes
<i>1045</i>	<i>0</i>	<i>7.19</i>	<i>16.8</i>	<i>693</i>	<i>Clear w/ Black Flakes</i>	<i>sheen / odor</i>
<i>1048</i>	<i>2</i>	<i>7.21</i>	<i>16.7</i>	<i>681</i>	<i>"</i>	<i>" "</i>
<i>1051</i>	<i>4</i>	<i>7.23</i>	<i>16.6</i>	<i>677</i>	<i>"</i>	<i>" "</i>
<i>1054</i>	<i>6</i>	<i>7.24</i>	<i>16.6</i>	<i>675</i>	<i>"</i>	<i>" "</i>

Purge Method:	<i>Disp. Bailer</i>		
Sample Method:	<i>Disp. Bailer</i>	Well Integrity:	
Sample Time:	<i>1059</i>	Dissolved O <sub>2</sub> :	

**APPENDIX C**

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-0307007  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 06/30/03 @ 11:00 am  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/03/03 - 07/07/03

**Matrix:** Soil

Laboratory ID	0307-007-1	0307-007-2	0307-007-3	Method	Units:	Detection Limit
Client Sample ID	GB2-8	GB2-10	GB2-12			
Dilution	1	1	1			
MtBE	ND	ND	ND	SW846 8021	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Total Xylene	ND	ND	ND	SW846 8021	mg/Kg	0.01
TPH - Gasoline	1.1	2.5	ND	EPA 8015M	mg/Kg	1.0
TPH - Diesel	750	4100	ND	EPA 8015M	mg/Kg	10
TPH - Oil	ND	3400	ND	EPA 8015M	mg/Kg	10

ND = Not Detected at the indicated Detection Limit

**CTEL Project No:** CT214-0307007  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Bill Little

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 06/30/03 @ 11:30 am  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/03/03 - 07/07/03

**Matrix:** Soil

Laboratory ID	0307-007-4	0307-007-5	0307-007-6	Method	Units:	Detection Limit
Client Sample ID	GB2-16	GB1-9	GB1-13			
Dilution	1	1	1			
MtBE	ND	ND	ND	SW846 8021	mg/Kg	0.005
Benzene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Toluene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Ethylbenzene	ND	ND	ND	SW846 8021	mg/Kg	0.005
Total Xylene	ND	ND	ND	SW846 8021	mg/Kg	0.01
TPH - Gasoline	ND	4.6	5.1	EPA 8015M	mg/Kg	1.0
TPH - Diesel	ND	1400	ND	EPA 8015M	mg/Kg	10
TPH - Oil	ND	1300	ND	EPA 8015M	mg/Kg	10

ND = Not Detected at the indicated Detection Limit

**CTEL Project No:** CT214-0307007  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 06/30/03 @ 13:30 p.m.  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/03/03 - 07/07/03

**Matrix:** Soil

**Laboratory ID:** 0307-007-6  
**Client Sample ID:** GB1-17  
**Dilution:** 1

		Method	Units:	Detection Limit
MtBE	ND	SW846 8021	mg/Kg	0.005
Benzene	ND	SW846 8021	mg/Kg	0.005
Toluene	ND	SW846 8021	mg/Kg	0.005
Ethylbenzene	ND	SW846 8021	mg/Kg	0.005
Total Xylene	ND	SW846 8021	mg/Kg	0.01
TPH - Gasoline	ND	EPA 8015M	mg/Kg	1.0
TPH - Diesel	ND	EPA 8015M	mg/Kg	10
TPH - Oil	ND	EPA 8015M	mg/Kg	10

ND = Not Detected at the indicated Detection Limit

**CTEL Project No:** CT214-0307007  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Bill Little

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 06/30/03 @ 11:00 am  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/03/03 - 07/07/03

**Matrix:** Soil

<b>Laboratory ID:</b>	0307-007-2	0307-007-5	<b>Method</b>	<b>Units:</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	GB2-10	GB1-9			
<b>Dilution</b>	1	1			
Dichlorodifluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	mg/Kg	0.25
Methylene Chloride	ND	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	mg/Kg	0.01
Methyl Ethyl Ketone	ND	ND	EPA 8260B	mg/Kg	0.01
cis,1,2-Dichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	ND	EPA 8260B	mg/Kg	0.01
1,1,1-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	ND	EPA 8260B	mg/Kg	0.005
t-Amyl Methyl Ether (TAME)	ND	ND	EPA 8260B	mg/Kg	0.01
1,2-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	ND	EPA 8260B	mg/Kg	0.01
trans,1,3-Dichloropropene	ND	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,2-Trichloroethane	ND	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT214-0307007

Project ID:

Project Name: Former Con. Volvo

Laboratory ID:	0307-007-2	0307-007-5	Method	Units	Detection Limit
Client Sample ID:	GB2-10	GB1-9			
1,2-Dibromoethane(EDB)	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
m,p-Xylene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromoform	ND	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	ND	EPA 8260B	mg/Kg	0.005
o-Xylen	ND	ND	EPA 8260B	mg/Kg	0.005
1,1,2,2-Tetrachloroethane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	0.010	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	0.020	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	ND	EPA 8260B	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	79	82	70-130
1,2 Dichloromethaned4	74	87	70-130
Toluene-d8	102	101	70-130
Bromofluorobenzene	98	110	70-130

*R. Tejrjian*

Greg Tejrjian  
Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8015M  
Matrix: Soil  
Date Analyzed: 7/3/03  
Units: ug/Kg

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	1051	1047	1000	105	105	60-140	0
TPH - Diesel	2049	2037	2000	102	102	60-140	0

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard  
LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD  
MS: Matrix Spike Sample  
MS: Matrix Spike Duplicate Sample



# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B  
 Matrix: Soil  
 Date Analyzed: 7/3/03  
 Units: ug/Kg

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	55	50	50	110	100	60-140	10
Benzene	48	47	50	96	94	60-140	2
Trichloroethene	51	50	50	102	100	60-140	2
Toluene	42	40	50	84	80	60-140	4
Chlorobenzene	43	42	50	86	84	60-140	2
m,p-Xylenes	79	76	100	79	76	60-140	3

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-1-3 Page 1 of 1

07.007

Client <u>Achieve Earthcare</u>	Project Manager <u>Bill Little</u>	Tests Required
	Phone Number <u>ABOVE</u>	
Project Name <u>Former Con Vdoo</u>	Samplers: (Signature) <u>William Little</u>	

Invoice:  
AGE   
Client

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Tests				Notes
				Water		Air			TPH	gld	IMP/BIBX	EPA 8260 (ALL)	
				Comp.	Grab.								
<u>GBR-8</u>		<u>6-30-3</u>	<u>1100</u>				<input checked="" type="checkbox"/>	<u>1</u>	<input checked="" type="checkbox"/>				
<u>GBR-10</u>			<u>1100</u>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
<u>GBR-12</u>			<u>1115</u>				<input checked="" type="checkbox"/>						
<u>GBR-16'</u>			<u>1130</u>				<input checked="" type="checkbox"/>						
<u>GBR-9</u>			<u>105</u>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
<u>GBR-13</u>			<u>105</u>				<input checked="" type="checkbox"/>						
<u>GBR-17</u>		<u>∇</u>	<u>130</u>				<input checked="" type="checkbox"/>	<u>∇</u>	<u>∇</u>				

Relinquished by: (Signature) <u>William Little</u>	Received by: (Signature)	Normal TAT	Date/Time
Relinquished by: (Signature)	Received by: (Signature)		Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>R. Taylor</u>	Date/Time <u>7-23/3-10</u>

Method of Shipment: <u>OVERNIGHT</u>	Laboratory Name: <u>AT Tech Labs</u>
Special Instructions:	I hereby authorize the performance of the above indicated work. <u>William Little</u>

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-0307090  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 07/19/03 @ 10:55 am  
**Date Received:** 07/22/03 @ 09:30 am  
**Date Analyzed:** 07/22/03

**Matrix:** Soil

**Laboratory ID:** 0307-090-2  
**Client Sample ID:** MW3-10

Dilution		Method	Units:	Detection Limit
	1			
Dichlorodifluoromethane	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	EPA 8260B	mg/Kg	0.20
Methylene Chloride	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	EPA 8260B	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	EPA 8260B	mg/Kg	0.005
Methyl Ethyl Ketone	ND	EPA 8260B	mg/Kg	0.01
cis,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	mg/Kg	0.005
1,1,1-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	EPA 8260B	mg/Kg	0.005
t-Amyl Methyl Ether (TAM)	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	EPA 8260B	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	mg/Kg	0.01
trans,1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	EPA 8260B	mg/Kg	0.005
1,1,2-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005

(Continued)

CTEL Project No: CT214-0307090

Project ID:  
Project Name: Former Con. Volvo

Laboratory ID: 0307-090-2  
Client Sample ID: MW3-10

		Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	EPA 8260B	mg/Kg	0.005
m,p-Xylene	ND	EPA 8260B	mg/Kg	0.005
Bromoform	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	EPA 8260B	mg/Kg	0.005
1,1,2,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
tert-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
sec-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2-Dibromo-3-Chloropropane	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	EPA 8260B	mg/Kg	0.005
TPH - Gasoline	ND	EAP 8015M	mg/Kg	1
TPH - Diesel	ND	EAP 8015M	mg/Kg	10

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	82	70-130
1,2 Dichloromethaned4	78	70-130
Toluene-d8	95	70-130
Bromofluorobenzene	89	70-130

**CTEL Project No:** CT214-0307090  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 07/19/03 @ 10:55 am  
**Date Received:** 07/22/03 @ 09:30 am  
**Date Analyzed:** 07/22/03

**Matrix:** Soil

Laboratory ID	0307-090-3	0307-090-4	Method	Units:	Detection Limit
Client Sample ID	MW3-15	MW3-20			
Dilution	1	1			
MtBE	ND	ND	SW846.8021	mg/Kg	0.005
Benzene	ND	ND	SW846.8021	mg/Kg	0.005
Toluene	ND	ND	SW846.8021	mg/Kg	0.005
Ethylbenzene	ND	ND	SW846.8021	mg/Kg	0.005
Total Xylene	ND	ND	SW846.8021	mg/Kg	0.01
TPH - Gasoline	ND	ND	EPA 8015M	mg/Kg	1
TPH - Diesel	ND	ND	EPA 8015M	mg/Kg	10

ND = Not Detected at the indicated Detection Limit

  
 Greg Tejirian  
 Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8015M

Matrix: Soil

Date Analyzed: 7/22/03

Units: ug/Kg

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	1064	1029	1000	106	103	60-140	3
TPH - Diesel	1001	942	1000	100	94	60-140	6

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

MS: Matrix Spike Sample

MS: Matrix Spike Duplicate Sample

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B

Matrix: Soil

Date Analyzed: 7/22/03

Units: ug/Kg

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	42	40	50	84	80	60-140	4
Benzene	47	49	50	94	98	60-140	4
Trichloroethene	48	46	50	96	92	60-140	4
Toluene	49	50	50	98	100	60-140	2
Chlorobenzene	50	49	50	100	98	60-140	2
m,p-Xylenes	104	108	100	104	108	60-140	4

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7/21/03 Page 1 of 1

07-090

Client <u>Continental Volvo</u>	Project Manager <u>Bill Little</u>	Tests Required
	Phone Number <u>1-209-467-1006</u>	
Project Name	Samplers: (Signature) <u>Cal Tee</u>	Invoice: AGE <input checked="" type="checkbox"/> Client <input type="checkbox"/>

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water		Air			
				Comp.	Grab.				
MW3-5	Oakland	7/19/03	1045				X	1	HLR
MW3-10	"	"	1055				X	1	X
MW3-15	"	"	1100				X	1	XX
MW3-20	"	"	1105				X	1	XX

Relinquished by: (Signature) <u>Cal Tee</u>	Received by: (Signature)	Normal TAT	Date/Time <u>7/21/03</u>
Relinquished by: (Signature)	Received by: (Signature)		Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>R. Yoshimichi</u>	Date/Time <u>7-22-03/9:10</u>
Method of Shipment: <u>OVERNIGHT</u>	Special Instructions: <u>FAX ASAP</u>	Laboratory Name: <u>CAL TEE</u>	I hereby authorize the performance of the above indicated work. <u>William T...</u>



**APPENDIX D**



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Advanced GeoEnvironmental, Inc 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
		Date Received: 07/19/02
	Client Contact: Bill Little	Date Reported: 07/26/02
	Client P.O.:	Date Completed: 07/26/02

July 26, 2002

Dear Bill:

Enclosed are:

- 1). the results of 3 samples from your **Continent Volvo** 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. McC Campbell 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



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Advanced GeoEnvironmental, Inc 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
		Date Received: 07/19/02
	Client Contact: Bill Little	Date Extracted: 07/22/02-07/25/02
	Client P.O.:	Date Analyzed: 07/22/02-07/25/02

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0207251

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	UST/07-19-02	W	52,h	ND	3.4	ND	ND	ND	1	109
002A	MW1/07-19-02	W	78,f	ND	5.4	ND	ND	ND	1	---#
003A	MW3/07-19-02	W	ND	ND	ND	ND	ND	ND	1	---#


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

\*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: 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); 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 ~2 vol. % sediment; j) sample diluted 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

 Edward Hamilton, Lab Director



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
http://www.mccampbell.com E-mail: main@mccampbell.com

Advanced GeoEnvironmental, Inc 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
		Date Received: 07/19/02
	Client Contact: Bill Little	Date Extracted: 07/19/02
	Client P.O.:	Date Analyzed: 07/19/02-07/22/02

### Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0207251

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0207251-001B	UST/07-19-02	W	3100,g	1	92.4
0207251-002B	MW1/07-19-02	W	200,b	1	--#
0207251-003B	MW3/07-19-02	W	ND	1	93.0


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

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

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



Advanced GeoEnvironmental, Inc. 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
		Date Received: 07/19/02
	Client Contact: Bill Little	Date Extracted: 07/21/02-07/24/02
	Client P.O.:	Date Analyzed: 07/21/02-07/24/02

**Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207251

Lab ID	0207251-001C
Client ID	UST/07-19-02
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<77	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	3.9	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)	ND	1.0	1.0	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	1.0	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-chloropropane	ND	1.0	1.0
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	2.3	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	0.54	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	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	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-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 (ETBE)	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	0.56	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	5.0	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	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

**Surrogate Recoveries (%)**

%SS1:	93.2	%SS2:	101
%SS3:	106		

**Comments:**

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
http://www.mcccampbell.com E-mail: main@mcccampbell.com

Advanced GeoEnvironmental, Inc 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
		Date Received: 07/19/02
	Client Contact: Bill Little	Date Extracted: 07/21/02-07/24/02
	Client P.O.:	Date Analyzed: 07/21/02-07/24/02

**Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0207251

Lab ID	0207251-002C
Client ID	MW1/07-19-02
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<77	10	5.0	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	5.4	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	11	10	1.0	t-Butyl alcohol (TBA)	ND<50	10	5.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	2-Chloroethyl Vinyl Ether	ND<10	10	1.0
Chloroform	ND<5.0	10	0.5	Chloromethane	ND<5.0	10	0.5
2-Chlorotoluene	ND<5.0	10	0.5	4-Chlorotoluene	ND<5.0	10	0.5
Dibromochloromethane	ND<5.0	10	0.5	1,2-Dibromo-3-chloropropane	ND<10	10	1.0
1,2-Dibromoethane (EDB)	ND<5.0	10	0.5	Dibromomethane	ND<5.0	10	0.5
1,2-Dichlorobenzene	ND<5.0	10	0.5	1,3-Dichlorobenzene	ND<5.0	10	0.5
1,4-Dichlorobenzene	ND<5.0	10	0.5	Dichlorodifluoromethane	ND<5.0	10	0.5
1,1-Dichloroethane	ND<5.0	10	0.5	1,2-Dichloroethane (1,2-DCA)	7.8	10	0.5
1,1-Dichloroethene	ND<5.0	10	0.5	cis-1,2-Dichloroethene	110	10	0.5
trans-1,2-Dichloroethene	ND<5.0	10	0.5	1,2-Dichloropropane	ND<5.0	10	0.5
1,3-Dichloropropane	ND<5.0	10	0.5	2,2-Dichloropropane	ND<5.0	10	0.5
1,1-Dichloropropene	ND<5.0	10	0.5	cis-1,3-Dichloropropene	ND<5.0	10	0.5
trans-1,3-Dichloropropene	ND<5.0	10	0.5	Diisopropyl ether (DIPE)	ND<5.0	10	0.5
Ethylbenzene	ND<5.0	10	0.5	Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5
Hexachlorobutadiene	ND<50	10	5.0	2-Hexanone	ND<5.0	10	0.5
Iodomethane (Methyl iodide)	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<50	10	5.0	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	ND<5.0	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	210	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Acetate	ND<50	10	5.0	Vinyl Chloride	ND<5.0	10	0.5
Xylenes	ND<5.0	10	0.5				

**Surrogate Recoveries (%)**

%SS1:	103	%SS2:	103
%SS3:	110		

**Comments:**

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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Advanced GeoEnvironmental, Inc 837 Shaw Road Stockton, CA 95215	Client Project ID: Continent Volvo	Date Sampled: 07/19/02
	Client Contact: Bill Little	Date Received: 07/19/02
	Client P.O.:	Date Extracted: 07/21/02-07/24/02
		Date Analyzed: 07/21/02-07/24/02

**Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0207251

Lab ID	0207251-003C
Client ID	MW3/07-19-02
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<77	1.0	5.0	tert-Amyl methyl ether (TAME)	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)	ND	1.0	1.0	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	0.54	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-chloropropane	ND	1.0	1.0
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-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	0.75	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	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-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 (ETBE)	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	5.0	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	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	13	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				

**Surrogate Recoveries (%)**

%SS1:	97.7	%SS2:	99.6
%SS3:	98.4		

Comments:

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0207251

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 3028		Spiked Sample ID: 0207250-001A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	60	94	95.4	1.45	106	106	0.339	80	120
MTBE	ND	10	103	113	9.03	97.7	94.3	3.56	80	120
Benzene	ND	10	105	102	2.47	114	106	7.04	80	120
Toluene	ND	10	110	107	2.40	113	109	3.91	80	120
Ethylbenzene	ND	10	107	103	3.52	118	111	6.18	80	120
Xylenes	ND	30	103	103	0	113	113	0	80	120
%SS:	104	100	107	105	1.08	103	101	1.59	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

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

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.

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

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





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### QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0207251

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 3032			Spiked Sample ID: N/A		
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	104	100	3.29	70	130
%SS:	N/A	100	N/A	N/A	N/A	107	104	2.84	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

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

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

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

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

**McC Campbell Analytical Inc.**

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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0207251

**Client:**

Advanced GeoEnvironmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

TEL: (209) 467-1006  
 FAX: (209) 467-1118  
 ProjectNo: Continent Volvo  
 PO:

19-Jul-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests					
					SW8015C	8021B/8015	SW8260B			
0207251-001	UST/07-19-02	Water	7/19/02 6:57:00 AM		B	A	C			
0207251-002	MW1/07-19-02	Water	7/19/02 8:10:00 AM		B	A	C			
0207251-003	MW3/07-19-02	Water	7/19/02 8:40:00 AM		B	A	C			

**Comments:**

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

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.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

0207251

### MCCAMPBELL ANALYTICAL INC.

110 2<sup>ND</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5360

Telephone: (925) 798-1620

Fax: (925) 798-1622

### CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required?  Yes  No

Report To: Bill Little Bill To:

Company: Advanced GeoEnvironmental

Phone # 209 467 1006

Tele: E-mail:

Project #: Fax:

Project Location: OAKLAND Project Name: CONTINENT VALVO

Sampler Signature: Kel Hart

#### Analysis Request

Other

Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED			EPA 601 / 8010	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239, 26010)	RCI	
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>										Other
+ UST/07-19-02	UST	7/19/02	657	5	<u>Wey</u> <u>100</u>							X	X										
+ MW1/07-19-02	MW1	11	810	1								X	X										
+ MW3/07-19-02	MW3	11	846	1								X	X										

Relinquished By: Kel Hart Date: 7/19/02 Time: 9:35

Received By: Monica Vargas

Remarks: [Handwritten signatures and stamps]

Relinquished By: Date: Time: Received By:

Relinquished By: Date: Time: Received By:

# CAL TECH Environmental Laboratories



2014 University Avenue, Stockton, CA 95211  
 Telephone: (209) 467-1006 Fax: (209) 467-1118

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-0304019  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Continental Volvo

**Date Sampled:** 04/02/03 @ 10:33 am  
**Date Received:** 04/03/03 @ 08:30 am  
**Date Analyzed:** 04/03/03 - 04/04/03

**Matrix:** Water

Laboratory ID:	0304-019-1	0304-019-2	0304-019-3	Method	Units:	Detection Limit
Client Sample ID:	MW1	MW3	UST			
Dilution	1	1	1			
MtBE	ND	ND	ND	SW846 8021	ug/L	1
Benzene	10	ND	ND	SW846 8021	ug/L	0.5
Toluene	ND	ND	ND	SW846 8021	ug/L	0.5
Ethylbenzene	1.7	ND	ND	SW846 8021	ug/L	0.5
Total Xylene	ND	ND	ND	SW846 8021	ug/L	1
TPH - Gasoline	250	120	450	EPA 8015M	ug/L	50
TPH - Diesel	ND	ND	ND	EPA 8015M	mg/L	0.05
TPH - Oil	ND	ND	ND	EPA 8015M	mg/L	1

ND = Not Detected at the indicated Detection Limit

**CTEL Project No:** CT214-0304019  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Bill Little

**Project ID:**  
**Project Name:** Continental Volvo

**Date Sampled:** 04/02/03 @ 10:33 am  
**Date Received:** 04/03/03 @ 08:30 am  
**Date Analyzed:** 04/03/03 - 04/04/03

**Matrix:** Water

Laboratory ID:	0304-019-1	0304-019-2	0304-019-3	Method	Units:	Detection Limit
Client Sample ID:	MW1	MW3	UST			
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Iodomethane	ND	ND	ND	EPA 8260B	ug/L	1
Acetone	ND	ND	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	ug/L	25
Methylene Chloride	ND	ND	ND	EPA 8260B	ug/L	10
Freon 113	ND	ND	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	ND	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	2.2	ND	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	ND	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	58	ND	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroform	ND	ND	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	7.6	ND	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Benzene	10	ND	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Trichloroethene	190	24	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Toluene	ND	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT214-0304019

Project ID:  
Project Name: Continental Volvo

Laboratory ID: Client Sample ID:	0304-019-1 MW1	0304-019-2 MW3	0304-019-3 UST	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Chlorobenzene	3.1	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	ND	ND	ND	EPA 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	EPA 8260B	ug/L	0.6
Bromoform	ND	ND	ND	EPA 8260B	ug/L	1
Styrene	ND	ND	ND	EPA 8260B	ug/L	1
o-Xylene	ND	ND	ND	EPA 8260B	ug/L	0.6
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	ND	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
n-Propylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
sec-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	1.4	ND	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	6.6	ND	2.2	EPA 8260B	ug/L	1
n-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Naphthalene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	ug/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	86	87	88	70-130
1,2 Dichloromethane <sup>4</sup>	120	122	116	70-130
Toluene-d8	108	109	109	70-130
Bromofluorobenzene	114	114	115	70-130

  
Greg Tejirian  
Laboratory Director

\*The results are base upon the sample received.

# CAL TECH Environmental Laboratories



11100 Wilshire Blvd., Suite 1000, Los Angeles, CA 90024  
Tel: (310) 271-6100 Fax: (310) 271-6101

## QA/QC Report

Method: 8015M / 8021B

Matrix: Water

Date Analyzed: 4/3/03

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
Benzene	41	42	50	82	84	70-130	2
Toluene	40	40	50	80	80	70-130	0
Ethybenzene	36	37	50	72	74	70-130	2
Xylenes	123	127	150	82	84	70-130	2
TPH - Gasoline	970	1010	1000	97	101	60-140	3

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

# CAL TECH Environmental Laboratories



10000 Wilshire Blvd., Suite 1000, Beverly Hills, CA 90210  
 Phone: (310) 271-3710 Fax: (310) 271-3711

## QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 4/4/03

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	1041	1033	1000	104	103	60-140	1
TPH - Diesel	1960	2011	2000	98	101	60-140	3

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD



# CAL TECH Environmental Laboratories



16115 Los Alamos Blvd., Pasadena, CA 91107-1114  
 Fax: 626-792-9374-8700 Cell: 626-792-9374

## QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 4/4/03

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	38	37	50	76	74	60-140	2
Benzene	42	40	50	84	80	60-140	4
Trichloroethene	50	51	50	100	102	60-140	2
Toluene	48	47	50	96	94	60-140	2
Chlorobenzene	47	46	50	94	92	60-140	2
m,p-Xylenes	102	105	100	102	105	60-140	3

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

04-019

CHAIN OF CUSTODY RECORD

Date 4/2/03 Page 1 of 1

Client Achim Ehrhardt Project Manager Bill Little Tests Required

Phone Number (209) 467 1006 Samplers: (Signature) Ree Mart

Project Name Continental Volvo Invoice: AGE  Client

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water		Air			
				Comp.	Grab.				
MW1 / 04-02-03		4/2/03	1033		X		5	+ + + + +	
MW3 / 04-02-03		"	1010		X		5	+ + + + +	
UST / 04-02-03		"	1059		+		5	+ + + + +	

TPH-ALL (2015)  
 BTEX+MTBE (2015)  
 5-Fluor. (2015)  
 1,2-DCA+EDS (2015)  
 FULL (2015)

Relinquished by: (Signature) Ree Mart Received by: (Signature) \_\_\_\_\_ Date/Time 4/2/03 1600

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Received by Mobile Laboratory for field analysis: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Dispatched by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received for Laboratory by: R. Yohannan Date/Time 4-303 / 8:30

Method of Shipment: Cal Overnight Laboratory Name: Cal Tech

Special Instructions: \_\_\_\_\_ I hereby authorize the performance of the above indicated work. Ree Mart

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CIEB Project No:** CT214-0307008  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Continental Volvo

**Date Sampled:** 06/30/03 @ 14:30 p.m.  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/02/03 - 07/03/03

**Matrix:** Water

Laboratory ID: Client Sample ID:	0307-008-1	0307-008-2	0307-008-3	Method	Units:	Detection Limit
Dilution	UST Well	MW1	MW3			
	1	1	1			
MtBE	ND	ND	ND	SW846 8021	ug/L	1
Benzene	ND	10	ND	SW846 8021	ug/L	0.5
Toluene	ND	ND	ND	SW846 8021	ug/L	0.5
Ethylbenzene	ND	ND	ND	SW846 8021	ug/L	0.5
Total Xylene	ND	ND	ND	SW846 8021	ug/L	1
TPH - Gasoline	ND	1900	ND	EPA 8015M	ug/L	50
TPH - Diesel	ND	ND	ND	EPA 8015M	mg/L	0.05

ND = Not Detected at the indicated Detection Limit

**CTEL Project No:** CT214-0307008  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Bill Little

**Project ID:**  
**Project Name:** Former Continental Volvo

**Date Sampled:** 06/30/03 @ 14:30 p.m.  
**Date Received:** 07/02/03 @ 08:30 am  
**Date Analyzed:** 07/02/03 - 07/03/03

**Matrix:** Water

Laboratory ID	0307-008-1	0307-008-2	0307-008-3	Method	Units:	Detection
Client Sample ID	UST Well	MW1	MW3			Limit
Dilution	1	1	1			
Dichlorodifluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	ND	ND	EPA 8260B	ug/L	1
Iodomethane	ND	ND	ND	EPA 8260B	ug/L	1
Acetone	ND	ND	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	EPA 8260B	ug/L	25
Methylene Chloride	ND	ND	ND	EPA 8260B	ug/L	10
Freon 113	ND	ND	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	ND	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1-Dichloroethane	ND	2.3	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	ND	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	ND	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	ND	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	ND	52	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
Chloroform	ND	ND	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	4.5	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	ND	ND	EPA 8260B	ug/L	0.5
Benzene	ND	1.1	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Trichloroethene	ND	170	23	EPA 8260B	ug/L	1
Dibromomethane	ND	ND	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	ND	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	ND	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	ND	ND	EPA 8260B	ug/L	1
Toluene	ND	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT214-0307008

Project ID:  
Project Name: Former Continental Volvo

Laboratory ID: Client Sample ID:	0307-008-1 UST Well	0307-008-2 MW1	0307-008-3 MW3	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	ND	ND	ND	EPA 8260B	ug/L	1
Chlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	ND	ND	ND	EPA 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	EPA 8260B	ug/L	0.6
Bromoform	ND	ND	ND	EPA 8260B	ug/L	1
Styrene	ND	ND	ND	EPA 8260B	ug/L	1
o-Xylene	ND	ND	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	ND	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
n-Propylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
sec-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
n-Butylbenzene	ND	ND	ND	EPA 8260B	ug/L	1
1,2-Dibromo-3-Chloropropane	ND	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Naphthalene	ND	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	ND	EPA 8260B	ug/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	108	106	108	70-130
1,2 Dichloromethane d4	92	92	98	70-130
Toluene-d8	80	78	78	70-130
Bromofluorobenzene	85	86	83	70-130

*Greg Tejrjian*  
Greg Tejrjian  
Laboratory Director

\*The results are base upon the sample received.

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146

Telephone: (562) 272-2700

Fax: (562) 272-2789

## QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/2/03

Units: ug/L

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	923	1002	1000	92	100	60-140	8
TPH - Diesel	1887	1821	2000	94	91	60-140	3

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

MS: Matrix Spike Sample

MS: Matrix Spike Duplicate Sample

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B  
 Matrix: Water  
 Date Analyzed: 7/2/03  
 Units: ug/L

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	42	45	50	84	90	60-140	10
Benzene	43	47	50	86	94	60-140	9
Trichloroethene	44	52	50	88	104	60-140	18
Toluene	42	49	50	84	98	60-140	17
Chlorobenzene	45	52	50	90	104	60-140	16
m,p-Xylenes	92	109	100	92	109	60-140	18

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 6-30-03 Page 1 of 1

07-008

Client <u>Achiew Ehrhardt</u>	Project Manager <u>Bill Little</u>	Tests Required
	Phone Number <u>None</u>	INH-A INH-B/BTEX EPA 8160
Project Name <u>Former Continental Wood</u>	Samplers: (Signature) <u>William Little</u>	

Invoice:

AGE   
Client

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water	Air				
				Comp.	Grab.				
UST-Well		6-30-03	2:30 PM	✓				4	X X X
MW 1		"	2:00 PM	✓				4	X X X
MW 3		"	3:00 PM	✓				4	X X X

Relinquished by: (Signature) <u>William Little</u>	Received by: (Signature)	Normal TAT	Date/Time
Relinquished by: (Signature)	Received by: (Signature)		Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)		Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>R. Jayloni</u>	Date/Time <u>7-20-03 / 4:30</u>

Method of Shipment: OVERNIGHT

Special Instructions:

Laboratory Name: Cal Tech - Lab

I hereby authorize the performance of the above indicated work.  
William Little



# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-0307091  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bill Little

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:**  
**Project Name:** Former Con. Volvo

**Date Sampled:** 07/21/03 @ 12:00 p.m.  
**Date Received:** 07/22/03 @ 09:30 am  
**Date Analyzed:** 07/22/03

**Matrix:** Water

**Laboratory ID:** 0307-091-1  
**Client Sample ID:** MW2  
**Dilution:** 1

		Method	Units:	Detection Limit
Dichlorodifluoromethane	ND	EPA 8260B	ug/L	1
Chloromethane	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	EPA 8260B	ug/L	1
Chloroethane	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	EPA 8260B	ug/L	1
Iodomethane	ND	EPA 8260B	ug/L	1
Acetone	ND	EPA 8260B	ug/L	10
1,1-Dichloroethene	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	EPA 8260B	ug/L	25
Methylene Chloride	ND	EPA 8260B	ug/L	10
Freon 113	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	EPA 8260B	ug/L	1
trans,1,2-Dichloroethene	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	ug/L	5
1,1-Dichloroethane	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	EPA 8260B	ug/L	10
cis,1,2-Dichloroethene	2.1	EPA 8260B	ug/L	1
Bromochloromethane	ND	EPA 8260B	ug/L	1
Chloroform	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	EPA 8260B	ug/L	0.5
Benzene	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	EPA 8260B	ug/L	1
Trichloroethene	4.1	EPA 8260B	ug/L	1
Dibromomethane	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	EPA 8260B	ug/L	5
cis,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	ug/L	10
trans,1,3-Dichloropropene	ND	EPA 8260B	ug/L	1
Toluene	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	EPA 8260B	ug/L	1

(Continued)

CTEL Project No: CT214-0307091

Project ID:

Project Name: Former Con. Volvo

Laboratory ID: 0307-091-1  
Client Sample ID: MW2

	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	EPA 8260B	ug/L	1
Dibromochloromethane	EPA 8260B	ug/L	1
2-Hexanone	EPA 8260B	ug/L	10
Tetrachloroethene	EPA 8260B	ug/L	1
Chlorobenzene	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	EPA 8260B	ug/L	1
Ethylbenzene	EPA 8260B	ug/L	0.5
m,p-Xylene	EPA 8260B	ug/L	0.6
Bromoform	EPA 8260B	ug/L	1
Styrene	EPA 8260B	ug/L	1
o-Xylene	EPA 8260B	ug/L	0.6
1,1,1,2-Tetrachloroethane	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	EPA 8260B	ug/L	1
Isopropylbenzene	EPA 8260B	ug/L	1
Bromobenzene	EPA 8260B	ug/L	1
2-Chlorotoluene	EPA 8260B	ug/L	1
n-Propylbenzene	EPA 8260B	ug/L	1
4-Chlorotoluene	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	EPA 8260B	ug/L	1
tert-Butylbenzene	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	EPA 8260B	ug/L	1
sec-Butylbenzene	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	EPA 8260B	ug/L	1
p-Isopropyltoluene	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	EPA 8260B	ug/L	1
n-Butylbenzene	EPA 8260B	ug/L	1
1,2-Dibromo-3-Chloropropane	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	EPA 8260B	ug/L	1
Naphthalene	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	EPA 8260B	ug/L	1
Hexachlorobutadiene	EPA 8260B	ug/L	1
TPH - Gasoline	EAP 8015M	ug/L	50
TPH - Diesel	EAP 8015M	mg/L	0.05

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	82	70-130
1,2 Dichloromethane <sup>4</sup>	79	70-130
Toluene-d8	96	70-130
Bromofluorobenzene	89	70-130

Greg Tejirian  
Laboratory Director

\*The results are base upon the sample received.

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/22/03

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	1080	1024	1000	108	102	60-140	6
TPH - Diesel	1001	942	1000	100	94	60-140	6

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 7/22/03

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	49	51	50	98	102	60-140	4
Benzene	41	42	50	82	84	60-140	2
Trichloroethene	42	47	50	84	94	60-140	12
Toluene	44	48	50	88	96	60-140	9
Chlorobenzene	48	52	50	96	104	60-140	8
m,p-Xylenes	99	104	100	99	104	60-140	5

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7-21-03 Page 1 of 1

07-091

Client <u>Alhena Architects</u> <u>Former Con Volvo</u>	Project Manager <u>Bill Little</u>	Tests Required
	Phone Number <u>467 1006</u>	
Project Name <u>Former Con. Volvo</u>	Samplers: (Signature) <u>Guillermo Perez</u>	Invoice: AGE <input checked="" type="checkbox"/> Client <input type="checkbox"/>

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water		Air			
				Comp.	Grab.				
<u>MW2/07/21/03</u>	<u>MW2</u>	<u>7-21-03</u>	<u>1200</u>		<u>4</u>			<u>4</u>	<u>TPH - 1+1</u> <u>BTEX (Base) - 1+1</u>

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	<u>7-21-03 1600</u>
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>S. Fat.</u>
Method of Shipment: <u>Cal overnight</u>		Laboratory Name: <u>Ed Tech</u>

Special Instructions: "EDF"

I hereby authorize the performance of the above indicated work.  
Guillermo Perez