environmental service
by Papineau, R.E.A. 791

March 5, 2001

MAR 21 2001

Mr. Jack Sumski, Jr.
Davis Realty Co., Inc.
5010 Geary Boulevard Suite 1
San Francisco, CA 94118

**Subject: Specified Soil and Ground Water Sampling and Laboratory Analyses for 1723 Fruitvale Avenue, Oakland, California (Project 2000-033.02)**

Dear Mr. Sumski:

Environmental Service has prepared this letter to convey the results of sampling and laboratory analyses of samples collected from 1723 Fruitvale Avenue, Oakland, California, the "Property." Table 1 presents the January 2001 analytical results for soil samples, and Table 2 pesents the February 2001 analytical results for three ground water samples. Four bore holes were drilled and sampled on January 29 and 30, 2001, under Drilling Permits W01-75, W01-76, W01-77, and W01-78, issued by the Water Resources Section of the Alameda County Public Works Agency. Three of the bore holes were completed with 2-inch diameter casing, screened from approximately 18 to 26 feet below grade surface, for optional use as monitoring wells for sampling or as piezometers for measuring ground water elevation.

Figure 1 illustrates the location of the Property, and Figure 2 illustrates the locations of exploratory bore holes. Ground Water Monitoring Logs are attached as Attachment A. Exploratory Soil Boring Logs and Well Construction Diagrams are attached as Attachment B. Signed laboratory reports and Sample Chains-of-Custody are included as Attachment C.

**BACKGROUND**

In November 2000 a subsurface investigation was performed at the direction of the Alameda County Health Care Services Agency, Environmental Health Services. As stated in its letter dated October 6, 2000, the objective of the investigation in November 2000 was to assess whether PCE had been released to the subsurface, including the soil deeper than 11 feet in the vicinity of SB-4 and SS-2 and the ground water in the downgradient vicinity of SB-4 and SS-2. On November 14, 2000, two exploratory borings, SB-5 and SB-6, were drilled within 10 feet of previously reported perchloroethylene (PCE) contamination in soil (see Figure 2).

Concentrations of PCE in the soil samples collected from bore hole SB-5 were low part-per-billion concentrations, 9.8 to 43 µg/kg (ppb), similar to those concentrations previously reported. Concentrations increased with increasing depth to a maximum concentration of 43 µg/kg at 20.5 feet below grade surface (bgs), which is in the smear zone, that is, the zone seasonally saturated with ground water. In the one ground water sample, SB6-GW, collected in November 2000, the concentration of PCE was reported to be 290 µg/L (ppb). Ground water was encountered at a depth of approximately 20 feet bgs in November 2000, in clayey sand with trace gravel, just beneath a very dense clayey gravel.

In June 2000, the following remedial actions required by the City of Oakland were performed by Basics Environmental on behalf of Davis Realty Co., Inc., the "Property Owner":

A) At location SS-1 (see Figure 2), a former hydraulic hoist was removed and soil was excavated to a depth of 11 feet bgs.

B) At location SB-4 (SS-2), adjacent to the former hydraulic lift, soil containing concentrations of 34 µg/kg as perchloroethylene (PCE) and 68 mg/kg as Total Recoverable Petroleum Hydrocarbons was excavated to a depth of 11 feet bgs.

In December 1999, before remedial actions A and B (above), a Phase II subsurface investigation was performed at the discretion of the Property Owner prior to a contemplated sale of the Property. Gasoline and BTEX concentrations in the one ground water sample collected at location SB-1 were reported by the analytical laboratory to be 270 µg/L as gasoline (with "no recognizable fuel pattern"); less than 0.5 µg/L as benzene, toluene, and ethyl benzene (BTE); and 0.51 µg/L as xylenes (X). PCE concentrations were reported by the analytical laboratory to be 24 µg/kg in the composite of soil samples collected at 5 feet and 10 feet bgs at location SB-4 and 42 µg/L in the one ground water sample collected at location SB-1. PCE was not detected in soil samples collected at locations SB-1, SB-2, SB-3 in December 1999 or in the soil sample collected at location SS-1 in June 2000.

## OBJECTIVE OF WORK

The current Phase II Subsurface Investigation was required by the Alameda County Health Care Services Agency, Environmental Health Services. As stated in its letter dated January 3, 2001, the objective of the required investigation is to delineate the lateral and vertical extent of PCE in the soil and also in the ground water.

Work was performed as generally agreed and outlined in the Proposed Sampling Plan, dated January 9, 2001, as amended based upon Alameda County Health Care Services Agency letter dated January 24, 2001, and Proposal 2000-033.02, and consisted of the below-listed tasks. Additions based upon the Alameda County Health Care Services Agency letter dated January 24, 2001, are shown in bold **[bold]** typeface:

1. Use a portable or low-clearance auger rig to drill up to five (5) bore holes, SB-7 for construction of a monitoring well (MW-1), SB-8 and SB-9 for two (2) piezometers, and SB-10 and SB-11 for additional soil sampling (see Figure 2).

2. Drill additional bore holes SB-10 and SB-11 generally north of SB-4/SS-2, for the purpose of collecting soil samples only.

3. Stop at 5, 10, 15, and 20 feet to collect soil samples driven into the split spoon sampler loaded with brass sleeves.

4. Complete bore hole SB-7 as a 2-inch diameter monitoring well (MW-1), screened from approximately 20 to 26 feet. Complete bore holes SB-8 and SB-9 as 2-inch diameter wells, screened from approximately 20 to 26 feet, for primary use as piezometers (MWP-2 and MWP-3). Monitoring well and piezometer construction schematics are illustrated in Attachment B.

5. Test three (3) vadose-zone soil samples (SB-7, 8, and 9-15 feet bgs) and three (3) capillary fringe soil samples (SB-7, 8, and 9-20 feet bgs) for PCE concentration in accordance with U.S. EPA Method 8010. Additionally, test four (4) vadose-zone soil samples (SB-10-10, SB-11-10, SB-10-15, and SB-11-15) and two (2) capillary fringe soil samples (SB-10-20 and SB-11-20) for PCE concentration in accordance with U.S. EPA Method 8010. **Additionally, test 10-foot depth soil samples for gasoline, BTEX, and MtBE, and TRPH, as directed by the county.** Testing will be performed by a California DHS, ELAP-participating laboratory certified to perform U.S. EPA Methods 601/8010, **5030/8015M, 8020, and 3550/8015M.**

6. Perform a Well Location and Elevation Survey by a Licensed Surveyor.

7. Develop and later purge monitoring well MW-1 and piezometers MWP-2 and MWP-3. Place soil cuttings, well development water and purge water in 55-gallon drums, for proper disposal pending receipt of laboratory analytical results.

8. Test the three (3) ground water samples for PCE, **gasoline, BTEX, MtBE, and TRPH** in accordance with U.S. EPA Method 601/8010, **U.S. EPA Method 5030/8015M, U.S. EPA Method 8020, and U.S. EPA Method 418.1**. Piezometers MWP-2 and MWP-3 may subsequently be used for water elevation measurements and **may also subsequently be used for sampling if initial PCE concentrations are above the MCL (5 ppb)**.

9. Prepare a concise letter report with laboratory analytical results, Sample Chain-of-Custody, sample location map, well location and elevation survey plat, ground water surface elevation map, well construction and exploratory soil boring logs signed by the Registered Geologist.

## DRILLING AND SOIL SAMPLING

Drilling and soil sampling were conducted on January 29 and 30, 2001, after a Site Safety Meeting to discuss job hazards, protective clothing, and emergency procedures. Indoor bore hole locations SB-7, SB-8, SB-9, SB-10, and SB-11 were core-sawed on January 24, 2001, before drilling. Drilling was performed by HEW Drilling Company with a Diedrich D-25 limited-access rig.

Soil samples were collected at 5-foot intervals from each bore hole. The laboratory was directed to test soil samples collected from approximately 10 to 11 feet, 15 to 16 feet, and 20 to 20.5 feet bgs. All soil samples were retained for potential laboratory analysis.

Bore hole SB-8 refused at 12 feet bgs, near the top of a very hard, strong brown (7.5 YR 4/6), gravely clay. The other bore holes (SB-7, SB-10, and SB-11) were drilled to a total depth of 25.5 to 26 feet bgs. Soil cuttings from the drilling were placed in four 55-gallon drums, labeled with the Property address and accumulation date, and left inside the building.

**Soil Sample Handling.** Soil samples in the brass sleeves were covered with a Teflon™ sheet on both ends and capped with plastic end caps. Discrete soil samples were labeled in the field with a sequential alphanumeric, such as SB7-6, SB7-10.5, SB7-16, and SB7-20.5. Soil samples were kept cool in an ice chest with water ice or in a refrigerator, and on January 31, 2001, were transported by the sampler to MacCampbell Analytical Labs, Inc., a California EPA-certified test laboratory in Concord, California (Cal/EPA-ELAP #1644), accompanied with a Sample Chain-of-Custody.

**Instructions for Laboratory Analysis of Soil Samples.** MacCampbell Analytical Labs, Inc., was instructed to analyze nine soil samples from borings SB-7, SB-10, and SB-11, collected at 10 to 11 feet bgs, 15 to 16 feet bgs, and 20 to 20.5 feet bgs, as discrete samples, for concentrations of volatile halocarbons (HVOCs, which include PCE). The laboratory was instructed to test four soil samples from borings SB-7, SB-8, SB-10, and SB-11, collected at 10 to 11 feet bgs, as discrete samples, for concentrations of Extractable Hydrocarbons as Motor Oil in accordance with U.S. EPA Method 3550/8015M; gasoline in accordance with U.S. EPA Method 5030/8015M; benzene, toluene, ethyl benzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MtBE) in accordance with U.S. EPA Method 8020. Other soil samples collected from the bore holes were retained but held by the laboratory without testing.

## WELL CONSTRUCTION

Bore holes SB-7 (MW-1), SB-10 (MWP-2), and SB-11 (MWP-3) were completed as 2-inch diameter monitoring wells with bentonite plugs, cement sanitary seals, locking caps and traffic rated vaults. Well construction conformed to Alameda County Public Works Agency, Water Resources Section, standards and conditions for well construction.

The sand filter packs consisted of Lonestar #2/12 clean washed sand, and the well screens consisted of approximately 6 to 8 feet of 0.010-inch machine slot, Schedule 40, Polyvinyl chloride (PVC). This choice of sand filter pack and slot size was consistent with the sandy clay, sandy clayey gravel, and sandy gravel with trace clay observed in the water-bearing soil.

The total depth and screened interval were selected based upon observed field conditions. The total depth of each bore hole drilled for MW-1, MWP-2, and MWP-3 was 25.5 feet or 26 feet bgs. First ground water was encountered at approximately 19 to 20 feet bgs. Each bore hole was terminated in a yellowish-brown (10 YR 5/4) sandy highly plastic clay soil observed at 23.5 to 26 feet bgs. The screened interval was selected to span the saturated zone of sandy clay, sandy clayey gravel, and sandy gravel with trace clay, logged from between 18 feet and 23.5 feet bgs.

Well casing sections were joined by threaded couplings. A 1-foot bentonite plug, consisting of 3/8-inch diameter hydrated bentonite pellets, was placed on the top of the filter pack in each well and hydrated with clean water. Sanitary seals consisted of neat cement grout, placed in the annular space above the sand filter pack and bentonite plug in each well. Well construction is illustrated schematically on Well Construction Diagrams (see Appendix B).

**Well Development.** Well development was performed on February 18, 2001, several days after well installation, to remove sediment inside the casings. Well development was performed by alternate surging with a surge block and pumping. Pumping and surging were continued until the well water was relatively clear. Well development and purge water was placed in two 55-gallon drums, labeled with the Property address and accumulation date, and left inside the building.

**Well Elevation and Location Survey.** Locations and elevations of each casing head, including MW-1, MWP-2, and MWP-3, were surveyed by Mr. John Koch, a California licensed surveyor, on February 25, 2001. The survey of vertical location was relative to the city of Oakland's monument, on Fruitvale Avenue at the corner of 17th Street (north). The survey of well head elevation was relative to mean sea level datum (1929 National Geodetic Vertical Datum).

## GROUND WATER MONITORING ON FEBRUARY 20, 2001

Ground water monitoring was performed on February 20, 2001. Depth to ground water was measured relative to the tops of the well casings (TOC), to the nearest hundredth of a foot, using an Environmental Instruments water level meter.

Depths to the ground water surface from tops of well casing were 16.69 feet in well MW-1, 16.89 feet in well MWP-2, and 16.75 feet in well MWP-3, compared to the initial measured depth to ground water of 19.2 to 19.8 feet. The potentiometric surface is illustrated in Figure 3. As shown the ground water surface sloped down toward the west on February 20, 2001.

Prior to sampling, monitoring wells were purged with a submersible pump, until temperature, pH, and electrical conductivity had stabilized. At the end of purging, before sampling, the temperature, pH, and electrical conductivity were observed to stabilize at 66 degrees Fahrenheit (°F), 6.4 to 6.5 pH, and 405 to 422 µmhos/cm, on February 20, 2001. Dissolved oxygen was measured to be approximately 8.4 mg/L in the three wells. Turbidity was less than 10 NTU in wells MW-1 and MWP-2 and 94 NTU in MWP-3. Refer to Attachment A, Ground Water Monitoring Logs.

Water surface elevation recovered to 0.01 foot of the original measured depths within 30 minutes. All wells then were hand bailed using disposable polyethylene bailers and twisted polypropylene line to collect ground water samples. Each ground water sample was poured carefully into triplicate 40-ml VOAs with 1:1 hydrochloric acid (HCl) preservative. The triplicate VOAs were labeled immediately after collection and then placed in an ice chest with blue ice and water ice. Ground water samples MW-1 and MWP-2 were observed and noted to be clear, and sample MWP-2 was noted to be slightly cloudy with suspended fine sediment. Floating product, sheen, and malodors were not present in any of the ground water samples.

**Ground Water Sample Handling.** Ground water samples were delivered to a State of California certified laboratory, ELAP #1644, on February 20, 2001. Prior to delivery, the samples remained in the custody of Environmental Service, transported in an ice chest with blue ice and water ice. Sample Chain-of-Custody procedures were used throughout to document sample condition and transfer.

**Instructions for Laboratory Analysis of Ground Water Samples.** MacCampbell Analytical Labs, Inc., was instructed to test the three ground water samples, MW-1, MWP-2, and MWP-3, for HVOCs, gasoline, BTEX and MtBE, and Total Recoverable Petroleum Hydrocarbons as Oil & Grease (TRPH). Analytical methods were U.S. EPA Method 8010 for HVOCs, U.S. EPA Method 5030/8015M for gasoline, U.S. EPA Method 8020 for BTEX and MtBE, and U.S. EPA Method 418.1, Scanning Infrared Spectrometry with Silica Gel Clean Up.

## RESULTS

Tables 1 and 2 present the results of laboratory analyses of soil samples and ground water samples. Concentrations of PCE and other HVOCs were reported as not detected in the nine soil samples so tested. Concentrations of gasoline, BTEX, and MtBE were reported as not detected in the four soil samples so tested. Concentrations of extractable hydrocarbons ($C18^{+}$) were reported as not detected in the four soil samples so tested. Detection limits reported by the

laboratory for soil samples were 25 µg/kg as PCE, 1 mg/kg as gasoline, 0.005 mg/kg as BTEX, 0.05 mg/kg as MtBE, and 5 mg/kg as extractable hydrocarbons ($C18^+$).

Ground water samples were reported to have detectable concentrations of PCE, 140 micrograms per liter (µg/L) in samples MWP-2 and MWP-3 and 160 µg/L in sample MW-1. One microgram per liter is approximately equivalent to one part per billion. Ground water samples were reported to have less than detectable concentrations of BTEX, MtBE, and Total Recoverable Petroleum Hydrocarbons (TRPH). Concentrations reported as gasoline are attributed to "one or more isolated peak(s)," as noted by the laboratory in a footnote. Detection limits reported by the laboratory for ground water samples were 50 µg/L as gasoline, 0.5 µg/L as BTEX, 5.0 µg/L as MtBE, and 1,000 µg/L (1 mg/L) as TRPH.

**INTERPRETATION**

Interpretation of available analytical test results for on-site soil samples collected from bore hole SB-5 supports the conclusion that a PCE source was on the Property near SB-5. PCE concentrations in soil, where detected, are in the low part-per-billion range, up to 43 µg/kg (ppb) in the soil sample collected from bore hole SB-5 at 20.5 feet bgs. PCE was not detected in soil samples at any depth in the adjacent bore holes including SB-3, SB-7, SB-8, SB-10, and SB-11. There are no detectable concentrations of decomposition products (*e.g.*, TCE, cis-1,2-DCE). The PCE source, therefore, appears to be aged and limited in lateral extent to the immediate locale around SS-2, SB-4 and SB-5. Vertically, PCE appears to have extended from near-surface to ground water at one location on the Property, namely location SB-5.

The current concentrations of PCE in soil are so low as not to warrant source removal. Concentrations of PCE in soil are less than the U.S. EPA, Region 9, Preliminary Remedial Goals (PRGs) for perchloroethylene, which are 5,700 µg/kg (ppb) for residential land and 19,000 µg/kg (ppb) for industrial land.

The direction of slope of the ground water surface may vary, in view of the southerly direction reported for 1450 Fruitvale Avenue in October 2000 and westerly direction measured at the Property (1723 Fruitvale Avenue) in February 2001. If so, PCE concentrations in ground water might be expected to be similar near the origin of the PCE contamination. In fact, concentrations of PCE in the ground water samples collected from the three on-site wells in February 2001 were nearly uniform at 140 to 160 µg/L.

The ground water-bearing zone on the Property has been characterized as confined, approximately 6 feet thick, consisting of sandy gravel, with or without clay, between approximately 18 and 24 feet bgs. The water-bearing zone is confined between highly plastic clay or sandy clay. The top of a confining clay aquitard has been logged in all borings completed to 25 feet bgs or deeper, namely, in SB-6, SB-7, SB-10, and SB-11. Figures 4 and 5 illustrate geologic cross-sections. In view of the presence of stiff clay beginning at approximately 24 or 25 feet bgs, it is not expected that PCE released near SB-5 would have affected deeper ground water below the aquitard.

The current concentrations of PCE in ground water are relatively low and vertically confined, such that remedial action is not warranted. The U.S. EPA's Maximum Contaminant Level for Drinking Water is 5 µg/L as PCE, but the shallow ground water that has been affected is not a potential drinking water source.

## CONCLUSION AND RECOMMENDATION

No source of PCE in soil remains that could warrant a remedial action. The shallow ground water impact zone is vertically confined within the interval from 18 to 24 feet bgs. The radius of impact relative to PCE in ground water, at a concentration of 5 µg/L or above, is tentatively estimated to be 120 feet outward from SB-5. The latter is a tentative estimate which may be refined based upon subsequent monitoring of the existing wells.

The recommendation presented below is intended for consideration by and discussion with the Property Owner and the Alameda County Health Care Services Agency. Further sampling and testing will not be performed until required by Alameda County and authorized by the Property Owner.

**Recommendation.** PCE in ground water should be monitored in the directly downgradient well. It is proposed the shallow ground water surface elevation and direction of slope be measured bi-weekly until a pattern is established. Ground water will be sampled on one additional monitoring event when the ground water surface is sloping directly toward one of the wells. Ground water surface elevations, directions of slope, and laboratory analytical data for one (1) ground water sample collected from the directly downgradient well will be reported in a concise letter report due no later than May 1, 2001.

**Deviations/Extras.** Well/piezometer MWP-2 was shifted to the location of bore hole SB-10, and well/piezometer MWP-3 was shifted to the location of SB-11, in contrast with the locations shown in the Proposed Sampling Plan. This shift was necessitated owing to auger refusal at SB-8 at approximately 12 feet bgs. Owing to auger refusal and down time, SB-9 could not be drilled within the two day drilling period.

Soil samples collected at 10 to 11 feet bgs were additionally analyzed for gasoline, BTEX and MtBE, and extractable hydrocarbons ($C18^+$). Ground water samples were additionally analyzed for gasoline, BTEX and MtBE, and TRPH. Additional laboratory analyses were required by the Alameda County Health Care Services Agency in its letter dated January 24, 2001.

**Limitations.** This work is the work of a California Registered Environmental Assessor and California Registered Geologist. The results expressed herein constitute laboratory and technical analyses. Interpretations expressed herein constitute opinions based upon the results. Results apply only to the soil and ground water samples collected and tested as reported herein. Samples that could be collected from other locations on the Property may have concentrations different from the concentrations reported herein.

A signed copy of this report should be forwarded by the Property Owner to Alameda County Health Care Services Agency, to the specialist named below:

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway Suite 250
Alameda, CA 94502-6577

TEL (510) 567-6746 FAX (510) 337-9335

Thank you for this opportunity to serve Davis Realty Co., Inc. If you have any questions or require additional information, please contact me directly.

Sincerely,

Marc Papineau

Marc Papineau
California Registered Environmental Assessor 791
Project Manager

R. Mark Armstrong
California Registered Geologist #6134
Project Reviewer

enclosures:
Table 1 (page 9), Analytical Results for Soil Samples
Table 2 (page 10), Analytical Results for Ground Water Samples
Figure 1 (page 11), Topographic Map
Figure 2 (page 12), Sample Location Map
Figure 3 (page 13), Potentiometric Surface Map
Figure 4 (page 14), Geologic Cross-Section
Figure 5 (page 15), Geologic Cross-Section

Attachment A, Ground Water Monitoring Logs
Attachment B, Exploratory Soil Boring Logs and Well Construction Diagrams
Attachment C, Signed Laboratory Reports and Sample Chains-of-Custody

# TABLE 1
## ANALYTICAL RESULTS FOR SOIL SAMPLES
**Date of Last Revision: 3/5/2001 All Results in Parts per Million (mg/kg)[a]**

| Soil Sample Identification | Sample Depth Interval (feet) | Volatile Halocarbons[b] | Specified Petroleum Hydrocarbons[c] | | | |
|---|---|---|---|---|---|---|
| | | PCE | Gasoline | BTEX[d] | MtBE[d] | Total Petroleum Hydrocarbons |
| **January 2001** | | | | | | |
| **SB7-10.5** | 10 to 10.5 | ND | ND | ND | ND | ND[MO] |
| **SB7-16** | 15.5 to 16 | ND | nt | nt | nt | nt |
| **SB7-20.5** | 10 to 20.5 | ND | nt | nt | nt | nt |
| **SB8-11** | 10.5 to 11 | ND | ND | ND | ND | ND[MO] |
| **SB10-10.5** | 10 to 10.5 | ND | nt | ND | ND | ND[MO] |
| **SB10-16** | 15.5 to 16 | ND | nt | nt | nt | nt |
| **SB10-20.5** | 20 to 20.5 | ND | nt | nt | nt | nt |
| **SB11-10.5** | 10 to 10.5 | ND | ND | ND | ND | ND[MO] |
| **SB11-15.5** | 15 to 15.5 | ND | nt | nt | nt | nt |
| **SB11-20.5** | 20 to 20.5 | ND | nt | nt | nt | nt |
| **November 2000** | | | | | | |
| **SB5-11.5** | 11 to 11.5 | 0.0098 | | | | |
| **SB5-16.5** | 16 to 16.5 | 0.019 | ND | ND | nt | ND[DL, HO] |
| **SB5-20.5** | 20 to 20.5 | 0.043 | ND | ND | nt | ND[DL, HO] |
| **December 1999** | | | | | | |
| **[S]B-1@5&10** | 5 & 10 | ND(<0.010) | ND | ND | ND | ND[e] (<10) |
| **[S]B-2@5&10** | 5 & 10 | ND(<0.010) | ND | ND | ND | ND[e] (<10) |
| **[S]B-3@5&10** | 5 & 10 | ND(<0.010) | nt | nt | nt | ND[e] (<10) |
| **[S]B-4@5&10** | 5 & 10 | 0.024 | nt | nt | nt | 68[e] |
| **Detection Limits** | | 0.025 | 1.0 | 0.005 | 0.05 | 1/5/13[c] |

**NOTES:**

PCE Tetrachloroethene, also perchloroethylene or PCE

nt Not tested for the stated parameter

ND None detected at or above the Detection Limits reported by the laboratory either in the bottom row of Table 1 or in parentheses "( )" if different.

a Laboratory results for Volatile Halocarbons (HVOCs), and also for gasoline, diesel and Total Petroleum Hydrocarbons are all stated in parts per million for consistency.

b HVOCs analyzed in accordance with U.S. EPA Method 8010.

c Gasoline was analyzed in accordance with U.S. EPA Method 5030/8015M. Other specified petroleum hydrocarbons - diesel (DL), and motor oil (MO), or hydraulic oil (HO) - were analyzed in accordance with U.S. EPA Method 3550/8015M, unless noted specifically otherwise. Detection limits are 1 ppm (DL), 5 ppm (MO), and 13 ppm (HO).

d Benzene, toluene, ethyl benzene, and xylenes (BTEX), and methyl tertiary butyl ether (MtBE) were analyzed in accordance with U.S. EPA Method 8020.

e Tested in accordance with Standard Method 5520C&F, not U.S. EPA Method 8015M.

**SOURCE:** McCampbell Analytical Inc,, (Cal/EPA ELAP #1644), February 7, 2001;
Entech Analytical Labs, Inc. (Cal/EPA ELAP #2346), November 20, 2000;
McCampbell Analytical Inc., (Cal/EPA ELAP #1644), December 17, 1999

# TABLE 2
## ANALYTICAL RESULTS FOR GROUND WATER SAMPLES
**Date of Last Revision: 3/5/2001 All Results in Parts per Billion (µg/L)[a]**

| Sample or Well Number | Date of Sample Collection | Ground Water | | Volatile Halocarbons[b] | Specified Petroleum Hydrocarbons | | | |
|---|---|---|---|---|---|---|---|---|
| | | Depth (Feet) | Elevation (Feet msl) | PCE | Gasoline[c] | BTEX[d] | MtBE[d] | Total Petroleum Hydrocarbons[e] |
| **MW-1** | 2/20/2001 | 16.69 | 43.25 | 160 | 68[g] | ND | ND | ND |
| **MWP-2** | 2/20/2001 | 16.89 | 43.15 | 140 | 62[g] | ND | ND | ND |
| **MWP-3** | 2/20/2001 | 16.75 | 43.24 | 140 | 64[g] | ND | ND | ND |
| **SB6-GW** | 11/14/2000 | 20 | 40 | 290 | 65[g] | ND | nt | ND (<74)[f,DL] ND (<368)[f,HO] |
| **SB1-GW-1** | 12/10/1999 | 23.5 | 35 | 42 | 270[h] | 0.51(X) | ND | 2,100 |
| **Detection Limits** | | | | 2.5 | 50 | 0.5 | 5.0 | 1,000[e] |

**NOTES:**

PCE Tetrachloroethene, also perchloroethylene or PCE
nt Not tested for the stated parameter or not available
ND None detected at or above the Detection Limits reported by the laboratory either in the bottom row of Table 1 or in parentheses "( )" if different.
a Laboratory results for Volatile Halocarbons (HVOCs), and also for gasoline; benzene, toluene, ethyl benzene, and xylenes (BTEX); methyl tertiary butyl ether (MtBE); and Total Petroleum Hydrocarbons are all stated in parts per billion (µg/L) for consistency.
b HVOCs were analyzed in accordance with U.S. EPA Method 601/8010.
c Gasoline was analyzed in accordance with U.S. EPA method 5030/8015M.
d Benzene, toluene, ethyl benzene, and xylenes (BTEX), and methyl tertiary butyl ether (MtBE) were analyzed in accordance with U.S. EPA Method 8020.
e Total petroleum hydrocarbons were analyzed as Total Recoverable Petroleum Hydrocarbons in accordance with U.S. EPA Method 418.1, unless noted specifically otherwise.
f Tested in accordance with U.S. EPA Method 3550/8015M as diesel (DL) and also as hydraulic oil (HO).
g Laboratory flagged the result and/or noted "one or more individual peaks."
h Laboratory flagged result and noted "no recognizable pattern."

**SOURCE:** McCampbell Analytical Inc, (Cal/EPA ELAP # 1644), February 26, 2001;
Entech Analytical Labs, Inc. (Cal/EPA ELAP #2346), November 20, 2000;
McCampbell Analytical Inc., (Cal/EPA ELAP #1644), December 17, 1999

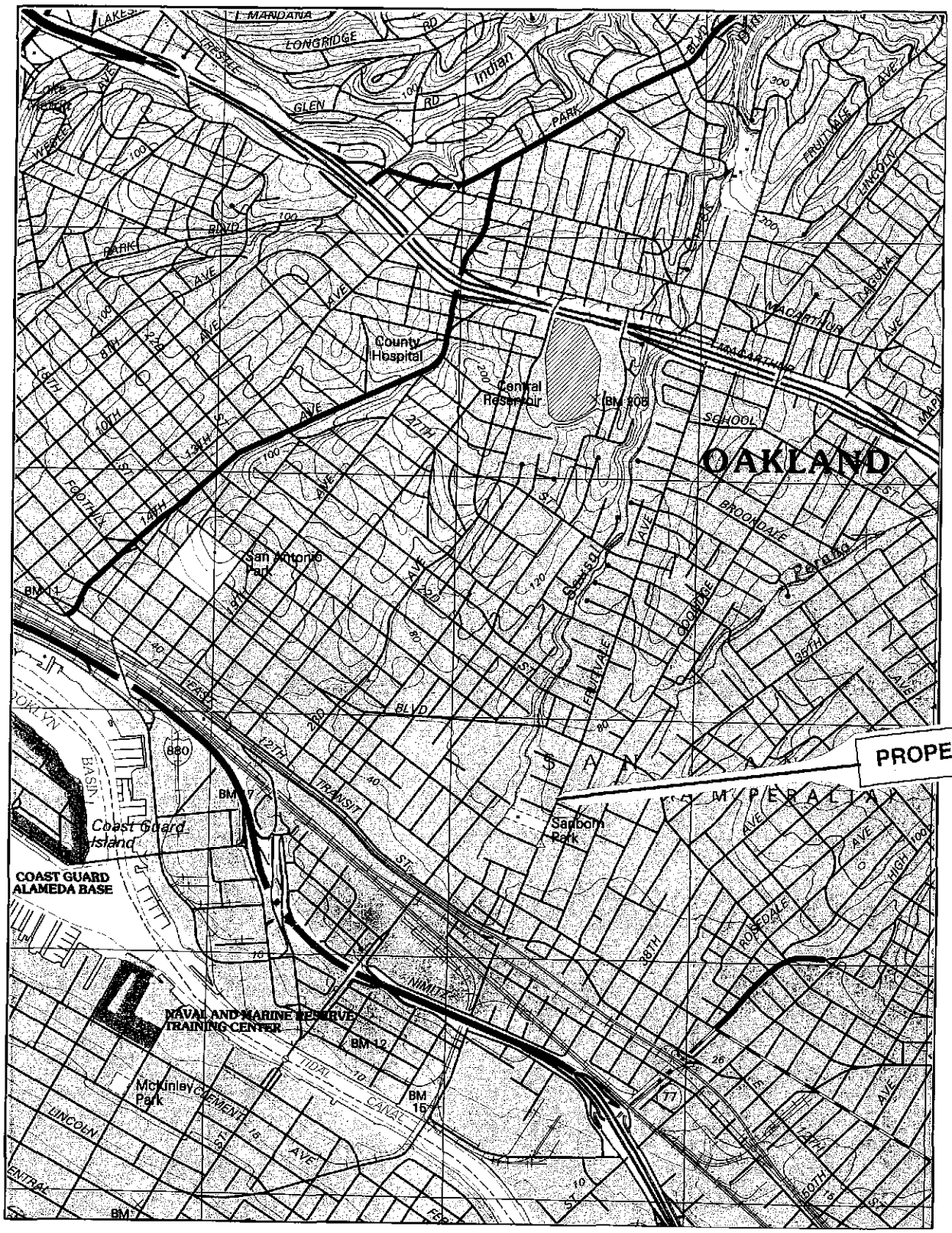


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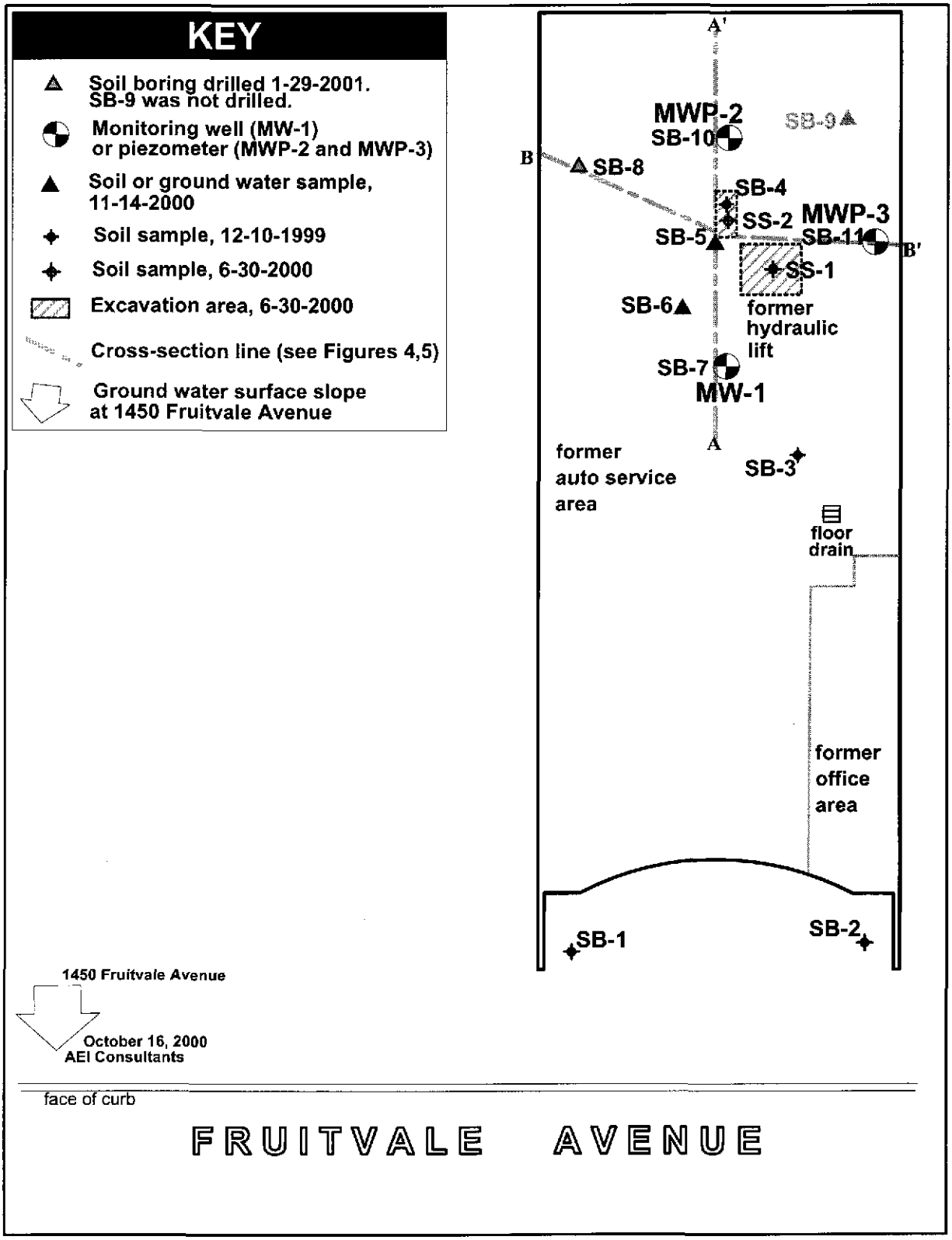
**Figure 1**
**Topographic Map**
**1723 Fruitvale Avenue**
**Oakland, California**

U. S. Geological Survey, 7.5-Minute Series (Topographic), Oakland East, 1997

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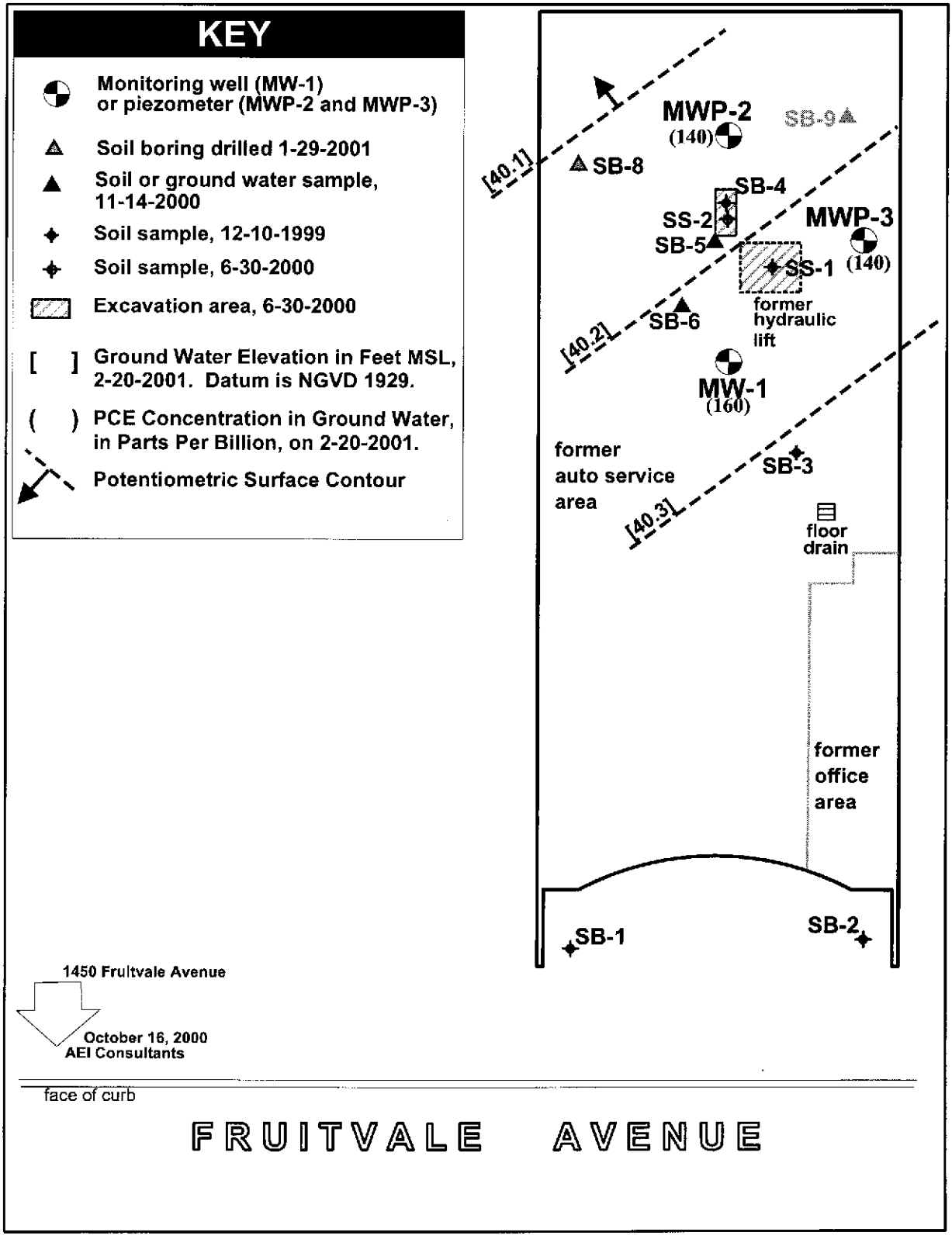
5.0 ft
10.0 ft

**Figure 2**
**Sample Location Map**
**1723 Fruitvale Avenue**
**Oakland, California**

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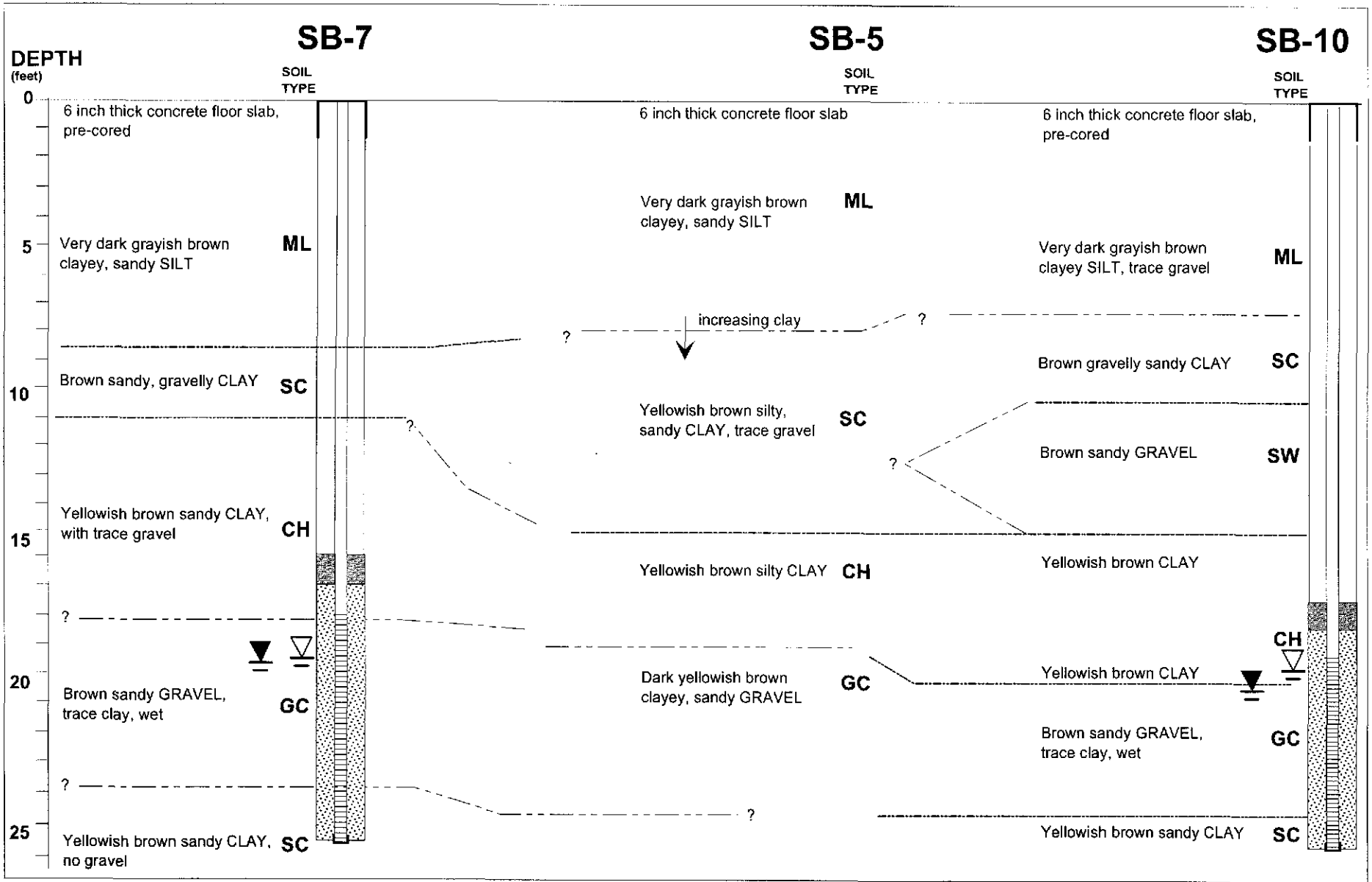
5.0 ft
10.0 ft

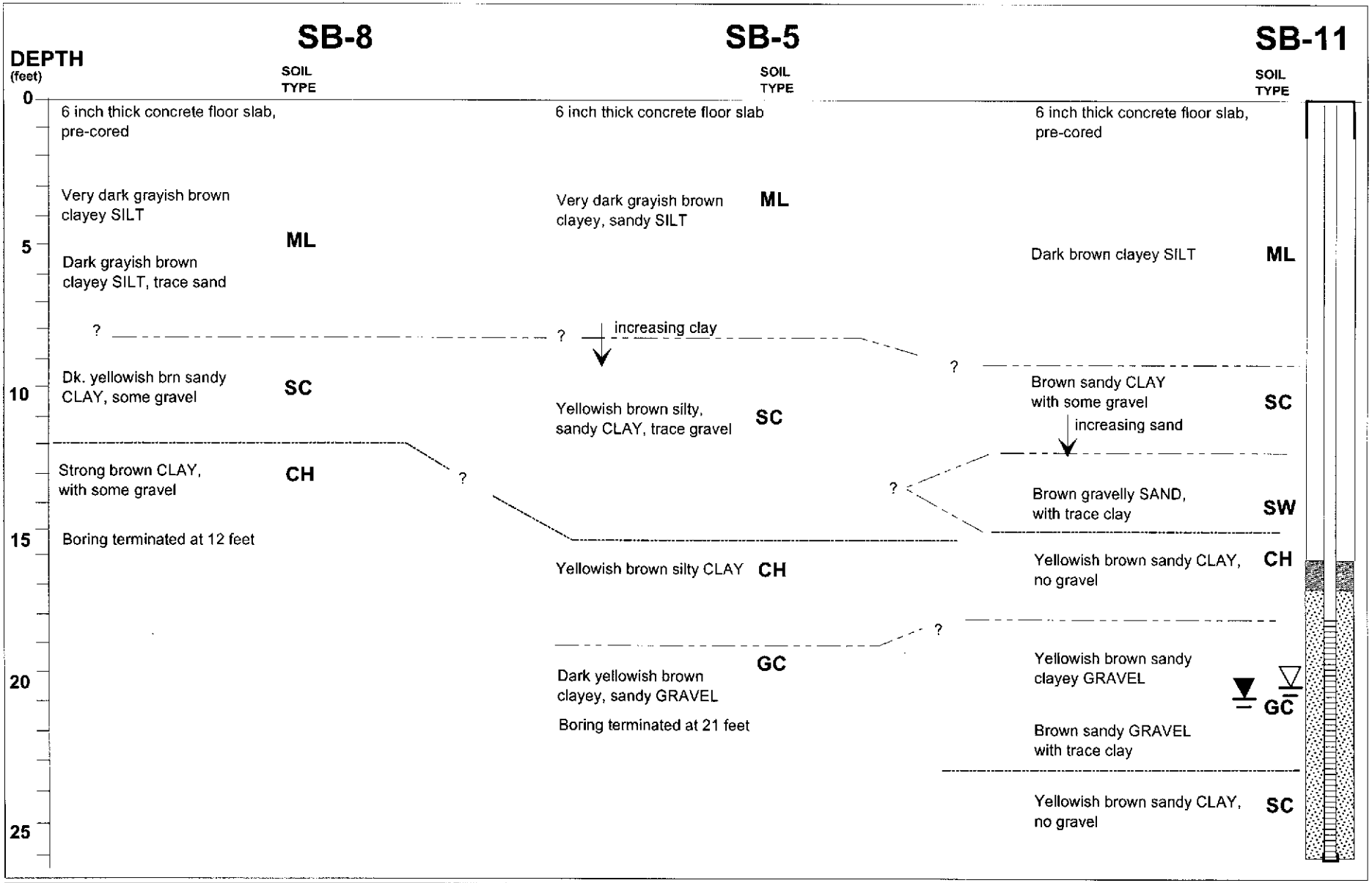
**Figure 3**
**Potentiometric Surface Map**
**for February 20, 2001**
**1723 Fruitvale Avenue**
**Oakland, California**




environmental service

by Papineau, R.E.A. 791

**Figure 4**
**Geologic Cross-Section A-A'**
**1723 Fruitvale Avenue, Oakland, California**




environmental service

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**Figure 5**
**Geologic Cross-Section B-B'**
**1723 Fruitvale Avenue, Oakland, California**

# ATTACHMENT A

## GROUND WATER MONITORING LOGS

# Ground Water Monitoring Log
## Well and Sampling Information

environmental service
by Papineau, R.E.A. 791

| | | | |
|---|---|---|---|
| **Site Location** | 1723 Fruitvale Ave. Oakland, CA | **Date** 2-20-2001 | **Time** 1249 (PST) |
| **Client** | Davis Realty Co. | **Weather** | Clearing after rain |
| **Well Number** | MW-1 | **Sampler** | M. Papineau |
| **Project No.** | 2000-033.02 | | |

### WELL INFORMATION

| | | | |
|---|---|---|---|
| **Casing Type** | PVC | **Well Condition** | |
| **Casing Diameter** | 2-inch | **Sediment** | Suspended |
| **Water Level (Pre-Purge)** | 16.69 ft | **Casing** | O.K. |
| **Total Depth** | 25.5 ft | **Cover** | Present |
| **Measuring Instrument** | Env. Instr | **Cap** | Present |
| **Datum** | TOC | **Lock** | Present, locked |

### PURGING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Submersible pump | **Cleaning Procedure** | |
| **Bailer or Tubing Material** | Discharge tubing | The pump, electrical wire, and discharge tubing were washed with TSP and water and rinsed in a 15-gallon bucket. MW-1 was purged last, after MWP-2 and MWP-3. | |
| **Polyethylene** | | | |
| **PVC** | | | |
| **Nylon Braided PVC** | X | **Pump Rate** | 1 gpm |
| **Rubber** | | **Elapsed Time** | 6 minutes |
| **Stainless** | | **Volume Pumped** | 6 gallons |
| **Rope** | N/A | **Number of Casing Volumes Purged** | 4 |
| **Nylon Mono** | | | |
| **Nylon Twist** | | **Start Time** 1330 | **End Time** 1336 |

### TIME SERIES DATA

| Measurement | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Number of Casing Volumes | 1 | 2 | 3 | 4 | |
| Water Temp. (°C) | 17.8 | 18.7 | 18.9 | 19.0 | |
| pH | 6.49 | 6.46 | 6.49 | 6.46 | |
| Electrical Conductivity (µmhos/cm) | 405 | 405 | 405 | 405 | |
| Dissolved Oxygen (mg/L) | 8.44 | 8.39 | 8.39 | 8.37 | |
| Turbidity (NTUs) | 660 | 238 | 3 | 2 | |

### SAMPLING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Hand Bail | **Rope** | |
| **Material ( _X__ Bailer ____Tubing)** | | **Nylon Mono** | |
| **Polyethylene** | X | **Polypropylene Braided** | X |
| **Tygon** | | **Other** | |
| **Teflon** | | **Sample Time** | 1412 |
| **Stainless** | | **pH** | 6.46 |
| | | **Temp. °F** | 66 |
| **Cleaning Procedure** | Clean dedicated bailer | **Turbidity** | Clear |

# Ground Water Monitoring Log
## Well and Sampling Information

environmental service
by Papineau, R.E.A. 791

| | | | |
|---|---|---|---|
| **Site Location** | 1723 Fruitvale Ave. Oakland, CA | **Date** 2-20-2001 | **Time** 1245 (PST) |
| **Client** | Davis Realty Co. | **Weather** | Clearing after rain |
| **Well Number** | MWP-2 | **Sampler** | M. Papineau |
| **Project No.** | 2000-33.02 | | |

### WELL INFORMATION

| | | | |
|---|---|---|---|
| **Casing Type** | PVC | **Well Condition** | |
| **Casing Diameter** | 2-inch | **Sediment** | Suspended |
| **Water Level (Pre-Purge)** | 16.89 ft | **Casing** | O.K. |
| **Total Depth** | 25.5 ft | **Cover** | Present |
| **Measuring Instrument** | Env. Instr | **Cap** | Present |
| **Datum** | TOC | **Lock** | Present, Locked |

### PURGING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Submersible pump | **Cleaning Procedure** | |
| **Bailer or Tubing Material** | Discharge tubing | The pump, electrical wire, and discharge tubing were washed with TSP and water and rinsed in a 15-gallon bucket. MWP-2 was purged first. | |
| **Polyethylene** | | **Pump Rate** | 1 gpm |
| **PVC** | | **Elapsed Time** | 6 minutes |
| **Nylon Braided PVC** | X | **Volume Pumped** | 6 gallons |
| **Rubber** | X | **Number of Casing Volumes Purged** | 4 |
| **Stainless** | | **Start Time** 1304 | **End Time** 1310 |
| **Rope** | N/A | | |
| **Nylon Mono** | | | |
| **Nylon Twist** | | | |

### TIME SERIES DATA

| Measurement | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Number of Casing Volumes | 2 | 3 | 3.5 | 4 | |
| Water Temp. (°C) | 18.7 | 18.8 | 19.0 | 19.0 | |
| pH | 6.23 | 6.47 | 6.45 | 6.45 | |
| Electrical Conductivity (µmhos/cm) | 421 | 411 | 411 | 409 | |
| Dissolved Oxygen (mg/L) | na | 8.30 | 8.22 | 8.28 | |
| Turbidity (NTUs) | 200 | 161 | 7 | 2 | |

### SAMPLING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Hand Bail | **Rope** | |
| **Material ( _X__ Bailer ____Tubing)** | | **Nylon Mono** | |
| **Polyethylene** | X | **Polypropylene Braided** | X |
| **Tygon** | | **Other** | |
| **Teflon** | | **Sample Time** | 1348 |
| **Stainless** | | **pH** | 6.45 |
| | | **Temp. °F** | 66 |
| **Cleaning Procedure** | Clean dedicated bailer | **Turbidity** | Clear |

# Ground Water Monitoring Log
## Well and Sampling Information

environmental service
by Papineau, R.E.A. 791

| | | | |
|---|---|---|---|
| **Site Location** | 1723 Fruitvale Ave. Oakland, CA | **Date** 2-20-2001 | **Time** 1247 (PST) |
| **Client** | Davis Realty Co. | **Weather** | Clearing after rain |
| **Well Number** | MWP-3 | **Sampler** | M. Papineau |
| **Project No.** | 2000-033.02 | | |

### WELL INFORMATION

| | | | |
|---|---|---|---|
| **Casing Type** | PVC | **Well Condition** | |
| **Casing Diameter** | 2-inch | **Sediment** | Suspended |
| **Water Level (Pre-Purge)** | 16.75 ft | **Casing** | O.K. |
| **Total Depth** | 26 ft | **Cover** | Present |
| **Measuring Instrument** | Env. Instr | **Cap** | Present |
| **Datum** | TOC | **Lock** | Present, Locked |

### PURGING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Submersible pump | **Cleaning Procedure** | |
| **Bailer or Tubing Material** | Discharge tubing | The pump, electrical wire, and discharge tubing were washed with TSP and water and rinsed in a 15-gallon bucket. MWP-3 was purged second, after MWP-2. | |
| **Polyethylene** | | **Pump Rate** | 1 gpm |
| **PVC** | | **Elapsed Time** | 6 minutes |
| **Nylon Braided PVC** | X | **Volume Pumped** | 6 gallons |
| **Rubber** | | **Number of Casing Volumes Purged** | 4 |
| **Stainless** | | **Start Time** 1316 | **End Time** 1322 |
| **Rope** | N/A | | |
| **Nylon Mono** | | | |
| **Nylon Twist** | | | |

### TIME SERIES DATA

| Measurement | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Number of Casing Volumes | 0 | 2 | 3 | 4 | |
| Water Temp. (°C) | 18.7 | 18.9 | 19.0 | 19.0 | |
| pH | 6.53 | 6.50 | 6.53 | 6.49 | |
| Electrical Conductivity (µmhos/cm) | 435 | 424 | 419 | 422 | |
| Dissolved Oxygen (mg/L) | 8.47 | 8.41 | 8.38 | 8.40 | |
| Turbidity (NTUs) | 321 | na | na | 94 | |

### SAMPLING INFORMATION

| | | | |
|---|---|---|---|
| **Method** | Hand Bail | **Rope** | |
| **Material ( _X__ Bailer ____Tubing)** | | **Nylon Mono** | |
| **Polyethylene** | X | **Polypropylene Braided** | X |
| **Tygon** | | **Other** | |
| **Teflon** | | **Sample Time** | 1403 |
| **Stainless** | | **pH** | 6.49 |
| | | **Temp. °F** | 66 |
| **Cleaning Procedure** | Clean dedicated bailer | **Turbidity** | Nearly clear |

# ATTACHMENT B

## EXPLORATORY SOIL BORING LOGS

## AND

## WELL CONSTRUCTION DIAGRAMS

DRILL RIG: Diedrich D-25 SURFACE
BORE HOLE DIAMETER (INCHES): 7 ELEVATION: 60 feet

DATE DRILLED:11-14-2000
LOGGED BY: MP
REVIEWED BY: RMA

## SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | WELL CONSTRUCTION |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab | | | | | | |
| | Dark grayish brown (10 YR 4/2) SILT slightly moist | ML | | | | | |
| 5 | Very dark grayish brown (10 YR 3/2) clayey sandy SILT, stiff, slightly moist | | | | | | |
| | ? ↓ increasing clay | | | | | | |
| 10 | Yellowish brown (10 YR 4/4) silty sandy CLAY with trace gravel (poorly-graded), stiff, slightly moist | SC | | 20 | | **SB5-11.5** no odor | |
| | | | | 17 | | | |
| 15 | Yellowish brown (10 YR 5/3) silty CLAY highly plastic, stiff, moist | CH | | 25 | | **SB5-16.5** no odor | |
| | ? Dark yellowish brown (10 YR 4/3.5) clayey, sandy GRAVEL (well-graded, sub-angular), very dense, very moist Split spoon sampler refused at 21 feet. | GC | | 86 | | **SB5-20.5** no odor | |
| 20 | | | | | | | |
| 25 | | | | | | | |

environmental service
by Papineau, R.E.A. 791

## EXPLORATORY SOIL BORING LOG

**PROJECT LOCATION:**
1723 Fruitvale Avenue Oakland, CA

| PROJECT No. | DATE |
|---|---|
| 2000-033.01 | 11-27-2000 |

**BORING No.**
**SB-5**

DRILL RIG: Diedrich D-25 SURFACE
BORE HOLE DIAMETER (INCHES): 7 ELEVATION: 60 feet

DATE DRILLED:11-14-2000
LOGGED BY: MP
REVIEWED BY: RMA

# SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | TEMPORARY SCREEN |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab | | | | | | |
| | Dark grayish brown (10 YR 4/2) SILT slightly moist | | | | | | |
| 5 | Very dark grayish brown (10 YR 3/2) clayey sandy SILT, medium plasticity, very stiff, slightly moist | ML | | 33 | | SB6-6.5 no odor | |
| 10 | Dk. yellowish brn (10YR4/4) gravelly fine SAND well-graded, medium dense, slightly moist | SW | | 18 | | | |
| | Yellowish brown (10 YR 4.5/4) silty CLAY, highly plastic, stiff, moist | CH | | 18 | | SB6-11.5 no odor | |
| 15 | Dark yellowish brown (10 YR 4/4) silty sandy CLAY, highly plastic, stiff, moist | CH | | 18 | | SB6-16.5 no odor | |
| 20 | Yellowish brown (10 YR 5/4) clayey, sandy GRAVEL (well-graded), very dense, very moist | GC | | 59 | | SB6-21.5 no odor | |
| | Yellowish brown (10 YR 5/4) clayey SAND with trace gravel (well-graded), dense, wet | SP | | | | | |
| 25 | Yellowish brown (10 YR 5/4) sandy CLAY, no gravel, hard, moist | SC | | 33 | | SB6-25.5 no odor | |

environmental service
by Papineau, R.E.A. 791

## EXPLORATORY SOIL BORING LOG

PROJECT LOCATION:
1723 Fruitvale Avenue Oakland, CA

PROJECT No. 2000-033.01
DATE 11-27-2000

BORING No. SB-6

DRILL RIG: Diedrich D-25 SURFACE
BORE HOLE DIAMETER (INCHES): 7 ELEVATION: 60 feet

DATE DRILLED: 1-30-2001
LOGGED BY: MP
REVIEWED BY: RMA

# SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | WELL CONSTRUCTION |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab, pre-cored | | | | | Christy box flush | |
| | | | | | | Blank casing Sch 40 PVC 2-inch diameter | |
| 5 | Very dark grayish brown (10 YR 3/2) clayey sandy SILT, hard, slightly moist | ML | | 46 | | SB7-6 no odor, no staining | |
| 10 | Brown (10 YR 4/3) sandy gravelly CLAY, slightly moist | SC | | 25 | | SB7-10.5 no odor, no staining | |
| 15 | Yellowish brown (10 YR 5/3.5) sandy CLAY, with trace gravel (1/4-inch minus, rounded), hard, slightly moist | CH | | 35 | | Neat cement SB7-16 no odor, no staining Bentonite plug | |
| | ? | | | | | | |
| 20 | Brown (10 YR 4.5/3) sandy GRAVEL with trace clay, well-graded, very dense, wet | GC | | 57 | | SB7-20.5 no odor, no staining Filter Pack: Lonestar 2/12 Well casing:Sch 40 PVC 0.010-inch slot | |
| | ? | | | | | | |
| 25 | Yellowish brown sandy CLAY, no gravel, highly plastic, stiff, moist | SC | | 23 | | SB7-25.5 no odor, no staining | |
| | | | | | | Bottom: 25.5 feet | |

environmental service
by Papineau, R.E.A. 791

## EXPLORATORY SOIL BORING LOG

PROJECT LOCATION:
1723 Fruitvale Avenue Oakland, CA

PROJECT No. 2000-033.02
DATE 1-30-2001

BORING No. MW-1 SB-7

DRILL RIG: Diedrich D-25 SURFACE
BORE HOLE DIAMETER (INCHES): 7 ELEVATION: 60 feet

DATE DRILLED:1-29-2001
LOGGED BY: MP
REVIEWED BY: RMA

## SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | TEMPORARY SCREEN |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab, pre-cored | | | | | | |
| | Very dark grayish brown (10 YR 3/2) clayey SILT, slightly moist | | | | | | |
| 5 | Dark grayish brown (10 YR 4/2) clayey SILT, trace sand, hard, slightly moist | ML | ■ | 48 | | **SB8-6** no odor, no staining | |
| | ? | | | | | | |
| 10 | Dk. yellowish brn (10 YR 4/5) clayey sand and sandy CLAY, with some gravel, dense, slightly moist | SC | ■ | 38 | | **SB8-11** no odor, no staining | |
| | Strong brown (7.5 YR 4/6) CLAY, with some gravel, very hard, dry | CH | | | | **refused auger at 12 feet** | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |

environmental service
by Papineau, R.E.A. 791

# EXPLORATORY SOIL BORING LOG

**PROJECT LOCATION:**
1723 Fruitvale Avenue Oakland, CA

| PROJECT No. | DATE |
|---|---|
| 2000-033.02 | 2-2-2001 |

**BORING No.**
**SB-8**

DRILL RIG: Diedrich D-25 SURFACE
BORE HOLE DIAMETER (INCHES): 7 ELEVATION: 60 feet

DATE DRILLED: 1-29-2001
LOGGED BY: MP
REVIEWED BY: RMA

## SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | WELL CONSTRUCTION |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab, pre-cored | | | | | Christy box flush | |
| | | | | | | Blank casing Sch 40 PVC 2-inch diameter | |
| 5 | Very dark grayish brown (10 YR 3/2) clayey SILT, with trace gravel (1/8-inch minus), hard, slightly moist | ML | | 39 | | SB10-5.5 no odor, no staining | |
| | ? | | | | | | |
| 10 | Brown (10 YR 4/4) sandy CLAY with some gravel, hard, slightly moist | SC | | 35 | | SB10-10.5 | |
| | Brown (10 YR 4/4) gravelly SAND (3/4-inch minus, poorly-graded, sub-angular) dense, slightly moist | SW | | 35 | | no odor, no staining | |
| | | | | | | Neat cement | |
| 15 | Yellowish brown (10 YR 5/6) CLAY plastic, stiff, slightly moist | CH | | 18 | | SB10-16 no odor, no staining | |
| | | | | | | Bentonite plug | |
| | Yellowish brown (10 YR 5/6) rust-mottled CLAY, plastic, moist | | | | | SB10-20.5 | |
| 20 | Brown (10 YR 4/3) sandy GRAVEL (3/4-inch minus, well-graded, rounded) with trace clay, dense, wet | GC | | 80 | | no odor, no staining | |
| | | | | | | Filter Pack: Lonestar 2/12 Well casing:Sch 40 PVC 0.010-inch slot | |
| 25 | Yellowish brown (10 YR 5/4) sandy CLAY, no gravel, plastic, hard, very moist | SC | | 40 | | SB10-25.5 no odor, no staining | |
| | | | | | | Bottom: 25.5 feet | |

environmental service
by Papineau, R.E.A. 791

## EXPLORATORY SOIL BORING LOG

PROJECT LOCATION:
1723 Fruitvale Avenue Oakland, CA

PROJECT No. 2000-033.02
DATE 2-2-2001

BORING No. MWP-2 SB-10

DRILL RIG: Diedrich D-25 | SURFACE
BORE HOLE DIAMETER (INCHES): 7 | ELEVATION: 60 feet

DATE DRILLED: 1-29-2001
LOGGED BY: MP
REVIEWED BY: RMA

## SOIL DESCRIPTION & CLASSIFICATION

| DEPTH (FEET) | | SOIL TYPE | SAMPLE | BLOWS/FT | PID READING (PPM) | REMARKS | WELL CONSTRUCTION |
|---|---|---|---|---|---|---|---|
| 0 | 6 inch thick concrete floor slab, pre-cored | | | | | Christy box flush | |
| | | | | | | Blank casing Sch 40 PVC 2-inch diameter | |
| 5 | Dark brown (7.5 YR 3/2) clayey SILT, hard, slightly moist | ML | | 59<br>63 | | SB11-5.5<br>no odor, no staining | |
| | ? | | | | | | |
| 10 | Brown (10 YR 4/4) sandy CLAY with some gravel, hard, slightly moist | SC | | 42 | | SB11-10.5<br>no odor, no staining | |
| | increasing sand | | | | | | |
| | ? | | | | | | |
| | Brown (10 YR 4/4) gravelly SAND, with trace clay, slightly moist | SW | | | | Neat cement | |
| 15 | Yellowish brown (10 YR 5/4) sandy CLAY, plastic, no gravel, stiff, slightly moist | CH | | 32 | | SB11-15.5<br>no odor, no staining | |
| | | | | | | Bentonite plug | |
| | ? | | | | | | |
| 20 | Yellowish brown (10 YR 4.5/4) sandy clayey GRAVEL (1/2-inch minus, well-graded, sub-angular), very dense, wet | GC | | 75 | | SB11-20.5<br>no odor, no staining | |
| | Brown (10 YR 4/3) sandy GRAVEL (3/4-inch minus, well-graded, rounded) with trace clay, very dense, wet | | | | | Filter Pack: Lonestar 2/12<br>Well casing:Sch 40 PVC<br>0.010-inch slot | |
| 25 | Yellowish brown (10 YR 5/4) sandy CLAY, no gravel, plastic, stiff, very moist | SC | | 21 | | SB11-25.5<br>no odor, no staining | |
| | | | | | | Bottom: 26 feet | |

environmental service
by Papineau, R.E.A. 791

## EXPLORATORY SOIL BORING LOG

PROJECT LOCATION:
1723 Fruitvale Avenue Oakland, CA

| PROJECT No. | DATE |
|---|---|
| 2000-033.02 | 2-2-2001 |

BORING No.
**MWP-3**
**SB-11**

# ATTACHMENT C

## SIGNED LABORATORY REPORTS

## AND

## SAMPLE CHAINS-OF-CUSTODY

McCAMPBELL 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

| | | |
|---|---|---|
| Environmental Services<br>5789 Gold Creek Drive<br>Castro Valley, CA 94552 | Client Project ID:#2000-033.02; 1723 Fruitvale | Date Sampled: 02/20/01 |
| | | Date Received: 02/20/01 |
| | Client Contact: Marc Papinean | Date Extracted: 02/20/01 |
| | Client P.O: | Date Analyzed: 02/20/01 |

02/26/2001

Dear Marc:

Enclosed are:

1). the results of **3** samples from your **#2000-033.02; 1723 Fruitvale** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Yours truly,

Edward Hamilton, Lab Director

McCAMPBELL 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

| | | |
|---|---|---|
| Environmental Services<br>5789 Gold Creek Drive<br>Castro Valley, CA 94552 | Client Project ID:#2000-033.02; 1723 Fruitvale | Date Sampled: 02/20/01 |
| | | Date Received: 02/20/01 |
| | Client Contact: Marc Papinean | Date Extracted: 02/20/01 |
| | Client P.O: | Date Analyzed: 02/20/01 |

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g)[+] | MTBE | Benzene | Toluene | Ethyl-benzene | Xylenes | % Recovery Surrogate |
|---|---|---|---|---|---|---|---|---|---|
| 60539 | MWP-2 | W | 62,f | ND | ND | ND | ND | ND | 99 |
| 60540 | MWP-3 | W | 64,f | ND | ND | ND | ND | ND | 102 |
| 60541 | MW-1 | W | 68,f | ND | ND | ND | ND | ND | 99 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | S | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak

[+]The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL 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

| | | |
|---|---|---|
| Environmental Services<br>5789 Gold Creek Drive<br>Castro Valley, CA 94552 | Client Project ID:#2000-033.02; 1723 Fruitvale | Date Sampled: 02/20/01 |
| | | Date Received: 02/20/01 |
| | Client Contact: Marc Papinean | Date Extracted: 02/20/01 |
| | Client P.O: | Date Analyzed: 02/20/01 |

**Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry***

EPA method 418.1 or 9073; Standard Methods 5520 C&F

| Lab ID | Client ID | Matrix | TRPH+ | % Recovery Surrogate |
|---|---|---|---|---|
| 60539 | MWP-2 | W | ND | 96 |
| 60540 | MWP-3 | W | ND | 100 |
| 60541 | MW-1 | W | ND | 103 |
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| | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 1.0 mg/L | |
| | | S | 10 mg/kg | |

* water samples are reported in mg/L , wipe samples in mg/wipe and soils and sludges in mg/kg

# surrogate diluted out of range or not applicable to this sample

+ At the client's request or the laboratory's discretion, one or more positive samples may be run by direct injection chromatography with FID detection. The following comments pertain to these GC results: a) gasoline-range compounds (C6-C12) are present; b) diesel range compounds (C10-C23) are present; c) oil-range compounds (>C18) are present; d) other patterned solvent (?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules are the source of IR absorption; h) a lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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| | | |
|---|---|---|
| Environmental Services | Client Project ID:#2000-033.02; 1723 Fruitvale | Date Sampled: 02/20/01 |
| 5789 Gold Creek Drive | | Date Received: 02/20/01 |
| Castro Valley, CA 94552 | Client Contact: Marc Papinean | Date Extracted: 02/20/01 |
| | Client P.O: | Date Analyzed: 02/20/01 |

**Volatile Halocarbons**

EPA method 601 or 8010

| Lab ID | 60539 | 60540 | 60541 | |
|---|---|---|---|---|
| Client ID | MWP-2 | MWP-3 | MW-1 | |
| Matrix | W | W | W | |
| Compound | Concentration* | | | |
| Bromodichloromethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Bromoform[b] | ND<2.5 | ND<2.5 | ND<2.5 | |
| Bromomethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Carbon Tetrachloride[c] | ND<2.5 | ND<2.5 | ND<2.5 | |
| Chlorobenzene | ND<2.5 | ND<2.5 | ND<2.5 | |
| Chloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 2-Chloroethyl Vinyl Ether[d] | ND<2.5 | ND<2.5 | ND<2.5 | |
| Chloroform [e] | ND<2.5 | ND<2.5 | ND<2.5 | |
| Chloromethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Dibromochloromethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,2-Dichlorobenzene | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,3-Dichlorobenzene | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,4-Dichlorobenzene | ND<2.5 | ND<2.5 | ND<2.5 | |
| Dichlorodifluoromethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,1-Dichloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,2-Dichloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,1-Dichloroethene | ND<2.5 | ND<2.5 | ND<2.5 | |
| cis 1,2-Dichloroethene | ND<2.5 | ND<2.5 | ND<2.5 | |
| trans 1,2-Dichloroethene | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,2-Dichloropropane | ND<2.5 | ND<2.5 | ND<2.5 | |
| cis 1,3-Dichloropropene | ND<2.5 | ND<2.5 | ND<2.5 | |
| trans 1,3-Dichloropropene | ND<2.5 | ND<2.5 | ND<2.5 | |
| Methylene Chloride[f] | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,1,2,2-Tetrachloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Tetrachloroethene | 140 | 140 | 160 | |
| 1,1,1-Trichloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| 1,1,2-Trichloroethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Trichloroethene | ND<2.5 | ND<2.5 | ND<2.5 | |
| Trichlorofluoromethane | ND<2.5 | ND<2.5 | ND<2.5 | |
| Vinyl Chloride[g] | ND<2.5 | ND<2.5 | ND<2.5 | |
| % Recovery Surrogate | 94 | 94 | 98 | |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe

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

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

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# QC REPORT

Date: 02/20/01 Matrix: Water

Extraction: TTLC

| Compound | Concentration: ug/L | | | | %Recovery | | RPD |
|---|---|---|---|---|---|---|---|
| | Sample | MS | MSD | Amount Spiked | MS | MSD | |
| SampleID: 21601 | | | | | Instrument: GC-3 | | |
| Surrogate1 | 0.000 | 98.0 | 98.0 | 100.00 | 98 | 98 | 0.0 |
| Xylenes | 0.000 | 29.5 | 26.4 | 30.00 | 98 | 88 | 11.1 |
| Ethyl Benzene | 0.000 | 9.9 | 8.9 | 10.00 | 99 | 89 | 10.6 |
| Toluene | 0.000 | 10.1 | 9.2 | 10.00 | 101 | 92 | 9.3 |
| Benzene | 0.000 | 10.4 | 9.4 | 10.00 | 104 | 94 | 10.1 |
| MTBE | 0.000 | 11.5 | 10.0 | 10.00 | 115 | 100 | 14.0 |
| GAS | 0.000 | 86.7 | 83.3 | 100.00 | 87 | 83 | 4.0 |
| SampleID: 21401 | | | | | Instrument: MB-1 | | |
| Oil & Grease | 0.000 | 19.8 | 19.6 | 23.70 | 84 | 83 | 1.0 |
| SampleID: 22001 | | | | | Instrument: GC-2 A | | |
| Surrogate1 | 0.000 | 100.0 | 100.0 | 100.00 | 100 | 100 | 0.0 |
| TPH (diesel) | 0.000 | 7450.0 | 7550.0 | 7500.00 | 99 | 101 | 1.3 |

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

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# QC REPORT

## EPA 8010/8020/EDB

Date: 01/19/01-01/20/01 Matrix: Water

Extraction: N/A

| Compound | Concentration: ug/L | | | | %Recovery | | RPD |
|---|---|---|---|---|---|---|---|
| | Sample | MS | MSD | Amount Spiked | MS | MSD | |
| SampleID: 10201 | | | | Instrument: GC-1 | | | |
| Surrogate1 | 0.000 | 93.0 | 87.0 | 100.00 | 93 | 87 | 6.7 |
| Chlorobenzene | 0.000 | 83.0 | 92.0 | 100.00 | 83 | 92 | 10.3 |
| Trichloroethane | 0.000 | 82.0 | 88.0 | 100.00 | 82 | 88 | 7.1 |
| 1,1-DCE | 0.000 | 92.0 | 102.0 | 100.00 | 92 | 102 | 10.3 |

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

24573 ZES3

**RUSH**

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# CHAIN OF CUSTODY RECORD

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

Report To: MARC PAPINEAU Bill To: SAME
Company: ENVIRONMENTAL SERVICE
5789 GOLD CREEK DRIVE
CASTRO VALLEY, CA 94552
Tele: (510) 881-8574 Fax: (510) 581-7204
Project #: 2000-033.02 Project Name: 1723 FRUITVALE
Project Location: 1723 FRUITVALE AVE. OAKLAND, CALIF.
Sampler Signature: MPapineau (MP)

| | SAMPLE ID | LOCATION | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX Water | MATRIX Soil | MATRIX Air | MATRIX Sludge | MATRIX Other | METHOD PRESERVED Ice | METHOD PRESERVED HCl | METHOD PRESERVED $HNO_3$ | METHOD PRESERVED Other | Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/ MTBE | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | Other: pH | TSS | TOC | Specific Conductivity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MWP-2 | | 2-20-01 | 1348 | 3 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | ✓ | ✓ | | | | | | | | | | | | | | | 60539 |
| (+) | MWP-3 | | 2-20-01 | 1403 | 3 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | ✓ | ✓ | | | | | | | | | | | | | | | 60540 |
| + | MW-1 | | 2-20-01 | 1412 | 3 | VOA | ✓ | | | | | ✓ | ✓ | | | ✓ | | | ✓ | ✓ | | | | | | | | | | | | | | | 60541 |

| Relinquished By: | Date: | Time: | Received By: |
|---|---|---|---|
| Marc Papineau | 2-20-01 | 5:30 pm | Nina A. Butler |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Remarks:
2-20-2001 (Sample Date)
Please contact M. PAPINEAU if MtBE is detected so that MtBE confirmation by U.S. EPA 8260 may be requested.

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| | | |
|---|---|---|
| Environmental Services<br>5789 Gold Creek Drive<br>Castro Valley, CA 94552 | Client Project ID:#2000-033.02; 1723 Fruitvale Ave., Oakland | Date Sampled: 01/30/01 |
| | | Date Received: 01/31/01 |
| | Client Contact: Marc Papinean | Date Extracted: 01/31/01 |
| | Client P.O: | Date Analyzed: 01/31/01 |

02/07/01

Dear Marc:

Enclosed are:

1). the results of **10** samples from your **#2000-033.02** project,

2). a QC report for the above samples

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

4). a bill for analytical services.

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

Yours truly,

Edward Hamilton, Lab Director

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| | | Date Received: 01/31/01 |
| | Client Contact: Marc Papinean | Date Extracted: 01/31/01 |
| | Client P.O: | Date Analyzed: 02/01/01 |

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g)+ | MTBE | Benzene | Toluene | Ethyl-benzene | Xylenes | % Recovery Surrogate |
|---|---|---|---|---|---|---|---|---|---|
| 59078 | SB 7-10.5 | S | ND | ND | ND | ND | ND | ND | 104 |
| 59083 | SB 8-11 | S | ND | ND | ND | ND | ND | ND | 109 |
| 59085 | SB 10-10.5 | S | ND | ND | ND | ND | ND | ND | 101 |
| 59090 | SB 11-10.5 | S | ND | ND | ND | ND | ND | ND | 106 |
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| | | | | | | | | | |
| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | S | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?, e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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| | | Date Received: 01/31/01 |
| | Client Contact: Marc Papinean | Date Extracted: 01/31/01 |
| | Client P.O: | Date Analyzed: 01/31-02/01/01 |

**Motor Oil-Range (C18+) Extractable Hydrocarbons as Motor Oil***

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

| Lab ID | Client ID | Matrix | TPH(mo)+ | % Recovery Surrogate |
|---|---|---|---|---|
| 59078 | SB 7-10.5 | S | ND | 97 |
| 59083 | SB 8-11 | S | ND | 95 |
| 59085 | SB 10-10.5 | S | ND | 95 |
| 59090 | SB 11-10.5 | S | ND | 106 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | | W | 250 ug/L | |
| | | S | 5.0 mg/kg | |

*water samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, 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 McCampbell 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) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

DHS Certification No. 1644

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| | | Date Received: 01/31/01 |
| | Client Contact: Marc Papinean | Date Extracted: 01/31-02/02/01 |
| | Client P.O: | Date Analyzed: 01/31-02/02/01 |

**Volatile Halocarbons**

EPA method 601 or 8010

| Lab ID | 59078 | 59079 | 59080 | 59085 |
|---|---|---|---|---|
| Client ID | SB 7-10.5 | SB 7-16 | SB 7-20.5 | SB 10-10.5 |
| Matrix | S | S | S | S |
| Compound | Concentration* | | | |
| Bromodichloromethane | ND | ND | ND | ND |
| Bromoform[b] | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND |
| Carbon Tetrachloride[c] | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| 2-Chloroethyl Vinyl Ether[d] | ND | ND | ND | ND |
| Chloroform [e] | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| cis 1,2-Dichloroethene | ND | ND | ND | ND |
| trans 1,2-Dichloroethene | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| cis 1,3-Dichloropropene | ND | ND | ND | ND |
| trans 1,3-Dichloropropene | ND | ND | ND | ND |
| Methylene Chloride[f] | ND<10 | ND<10 | ND<10 | ND<10 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND |
| Tetrachloroethene | ND<25 | ND<25 | ND<25 | ND<25 |
| 1,1,1-Trichloroethane | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| Trichloroethene | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND |
| Vinyl Chloride[g] | ND | ND | ND | ND |
| % Recovery Surrogate | 102 | 101 | 102 | 104 |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe

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

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

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| | | Date Received: 01/31/01 |
| | Client Contact: Marc Papinean | Date Extracted: 01/31-02/02/01 |
| | Client P.O: | Date Analyzed: 01/31-02/02/01 |

**Volatile Halocarbons**

EPA method 601 or 8010

| Lab ID | 59086 | 59087 | 59090 | 59091 |
|---|---|---|---|---|
| Client ID | SB 10-16 | SB 10-20.5 | SB 11-10.5 | SB 11-15.5 |
| Matrix | S | S | S | S |
| Compound | Concentration* | | | |
| Bromodichloromethane | ND | ND | ND | ND |
| Bromoform[b] | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND |
| Carbon Tetrachloride[c] | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| 2-Chloroethyl Vinyl Ether[d] | ND | ND | ND | ND |
| Chloroform [e] | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| cis 1,2-Dichloroethene | ND | ND | ND | ND |
| trans 1,2-Dichloroethene | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| cis 1,3-Dichloropropene | ND | ND | ND | ND |
| trans 1,3-Dichloropropene | ND | ND | ND | ND |
| Methylene Chloride[f] | ND<10 | ND<10 | ND<10 | ND<10 |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND |
| Tetrachloroethene | ND<25 | ND<25 | ND<25 | ND<25 |
| 1,1,1-Trichloroethane | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| Trichloroethene | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND |
| Vinyl Chloride[g] | ND | ND | ND | ND |
| % Recovery Surrogate | 91 | 89 | 92 | 93 |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe

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

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

_____Edward Hamilton, Lab Director

McCAMPBELL 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

| | | |
|---|---|---|
| Environmental Services | Client Project ID:#2000-033.02; 1723 Fruitvale Ave., Oakland | Date Sampled: 01/30/01 |
| 5789 Gold Creek Drive | | Date Received: 01/31/01 |
| Castro Valley, CA 94552 | Client Contact: Marc Papinean | Date Extracted: 01/31-02/02/01 |
| | Client P.O: | Date Analyzed: 01/31-02/02/01 |

**Volatile Halocarbons**

EPA method 601 or 8010

| Lab ID | 59092 | | | |
|---|---|---|---|---|
| Client ID | SB11-20.5 | | | |
| Matrix | S | | | |
| Compound | Concentration* | | | |
| Bromodichloromethane | ND | | | |
| Bromoform[b] | ND | | | |
| Bromomethane | ND | | | |
| Carbon Tetrachloride[c] | ND | | | |
| Chlorobenzene | ND | | | |
| Chloroethane | ND | | | |
| 2-Chloroethyl Vinyl Ether[d] | ND | | | |
| Chloroform [e] | ND | | | |
| Chloromethane | ND | | | |
| Dibromochloromethane | ND | | | |
| 1,2-Dichlorobenzene | ND | | | |
| 1,3-Dichlorobenzene | ND | | | |
| 1,4-Dichlorobenzene | ND | | | |
| Dichlorodifluoromethane | ND | | | |
| 1,1-Dichloroethane | ND | | | |
| 1,2-Dichloroethane | ND | | | |
| 1,1-Dichloroethene | ND | | | |
| cis 1,2-Dichloroethene | ND | | | |
| trans 1,2-Dichloroethene | ND | | | |
| 1,2-Dichloropropane | ND | | | |
| cis 1,3-Dichloropropene | ND | | | |
| trans 1,3-Dichloropropene | ND | | | |
| Methylene Chloride[f] | ND<10 | | | |
| 1,1,2,2-Tetrachloroethane | ND | | | |
| Tetrachloroethene | ND<25 | | | |
| 1,1,1-Trichloroethane | ND | | | |
| 1,1,2-Trichloroethane | ND | | | |
| Trichloroethene | ND | | | |
| Trichlorofluoromethane | ND | | | |
| Vinyl Chloride[g] | ND | | | |
| % Recovery Surrogate | 97 | | | |
| Comments | | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe

Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe

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

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

# QC REPORT

Date: 02/01/01 Matrix: Soil

Extraction: TTLC

| Compound | Concentration: mg/kg | | | | %Recovery | | RPD |
|---|---|---|---|---|---|---|---|
| | Sample | MS | MSD | Amount Spiked | MS | MSD | |
| SampleID: 12201 | | | | | Instrument: GC-12 | | |
| Surrogate1 | 0.000 | 101.000 | 97.000 | 100.00 | 101 | 97 | 4.0 |
| Xylenes | 0.000 | 0.347 | 0.345 | 0.30 | 116 | 115 | 0.6 |
| Ethyl Benzene | 0.000 | 0.117 | 0.114 | 0.10 | 117 | 114 | 2.6 |
| Toluene | 0.000 | 0.115 | 0.113 | 0.10 | 115 | 113 | 1.8 |
| Benzene | 0.000 | 0.114 | 0.111 | 0.10 | 114 | 111 | 2.7 |
| MTBE | 0.000 | 0.103 | 0.100 | 0.10 | 103 | 100 | 3.0 |
| GAS | 0.000 | 0.986 | 0.986 | 1.00 | 99 | 99 | 0.0 |
| SampleID: 12301 | | | | | Instrument: GC-11 A | | |
| Surrogate1 | 0.000 | 115.000 | 116.000 | 100.00 | 115 | 116 | 0.9 |
| TPH (diesel) | 0.000 | 344.000 | 340.000 | 300.00 | 115 | 113 | 1.2 |

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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http://www.mccampbell.com E-mail: main@mccampbell.com

# QC REPORT

## EPA 8010/8020/EDB

Date: 01/30/01-01/31/01 Matrix: Water

Extraction: N/A

| Compound | Concentration: ug/L | | | | %Recovery | | RPD |
|---|---|---|---|---|---|---|---|
| | Sample | MS | MSD | Amount Spiked | MS | MSD | |
| SampleID: 20201 | | | | | Instrument: GC-10 | | |
| Surrogate1 | 0.000 | 97.0 | 97.0 | 100.00 | 97 | 97 | 0.0 |
| Chlorobenzene | 0.000 | 92.0 | 89.0 | 100.00 | 92 | 89 | 3.3 |
| Trichloroethane | 0.000 | 84.0 | 68.0 | 100.00 | 84 | 68 | 21.1 |
| 1,1-DCE | 0.000 | 79.0 | 73.0 | 100.00 | 79 | 73 | 7.9 |

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD: means Relative Percent Deviation

24289 ZES2

# McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

# CHAIN OF CUSTODY RECORD

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

Report To: Marc PAPINEAU Bill To: same
Company: environmental service
5789 GOLD CREEK DRIVE
CASTRO VALLEY, CA 94552
Tele: (510) 881-8574 Fax: (510) 581-7204
Project #: 2000-033.02 Project Name:
Project Location: 1723 FRUITVALE AVE. OAKLAND, CA
Sampler Signature: Marc Papineau (MP)

| SAMPLE ID | LOCATION | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX Water | MATRIX Soil | MATRIX Air | MATRIX Sludge | MATRIX Other | METHOD PRESERVED Ice | METHOD PRESERVED HCl | METHOD PRESERVED $HNO_3$ | METHOD PRESERVED Other | BTEX & TPH as Gas (602/8020 + 8015) MTBE | TPH as ~~Diesel~~ (8015) Motor Oil | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 : 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | pH | TSS | TOC | Specific Conduc | Other | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB7-6 | | 1-30-01 | 1415 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | H 59077 |
| SB7-10.5 | | 1-30-01 | 1432 | 1 | B | | ✓ | | | | ✓ | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | 59078 |
| SB7-16 | | 1-30-01 | 1444 | 1 | B | | ✓ | | | | ✓ | | | | | | | | ✓ | | | | | | | | | | | | | | | 59079 |
| SB7-20.5 | | 1-30-01 | 1500 | 1 | B | | ✓ | | | | ✓ | | | | | | | | ✓ | | | | | | | | | | | | | | | 59080 |
| SB7-25.5 | | 1-30-01 | 1530 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| SB8-6 | | 1-29-01 | 0940 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| SB8-11 | | 1-29-01 | 1000 | 1 | B | | ✓ | | | | ✓ | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | H 59081 |
| SB10-5.5 | | 1-29-01 | 1100 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | H 59082 |
| SB10-10.5 | | 1-29-01 | 1105 | 1 | B | | ✓ | | | | ✓ | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | 59083 |
| SB10-16 | | 1-29-01 | 1410 | 1 | B | | ✓ | | | | ✓ | | | | | | | | ✓ | | | | | | | | | | | | | | | H 59084 |
| SB10-20.5 | | 1-29-01 | 1428 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | 59085 |
| SB10-25.5 | | 1-29-01 | 1605 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | 59086 |
| SB11-5.5 | | 1-30-01 | 1015 | 1 | B | | ✓ | | | | ✓ | | | | | | | | | | | | | | | | | | | | | | | 59087 |
| SB11-10.5 | | 1-30-01 | 1045 | 1 | B | | ✓ | | | | ✓ | | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | | | H 59088 |
| SB11-15.5 | | 1-30-01 | 1110 | 1 | B | | ✓ | | | | ✓ | | | | | | | | ✓ | | | | | | | | | | | | | | | H 59089 |

Page 1 of 2

| Relinquished By: | Date: | Time: | Received By: |
|---|---|---|---|
| Marc Papineau | 1-31-01 | 1215 | Marcia Vancegor |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Remarks:
Hold all samples for potential subsequent analysis.

B = 2 inch dia. x 6 inch long brass sleeve

PAGE 1 OF 2

59090

59091

# McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

# CHAIN OF CUSTODY RECORD

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

Report To: MARC PAPINEAU Bill To: same
Company: environmental service
5789 GOLD CREEK DRIVE
CASTRO VALLEY, CA 94552
Tele: (510) 881-8574 Fax: (510) 581-7204
Project #: 2000-033.02 Project Name: 1723 FRUITVALE
Project Location: 1723 FRUITVALE AVE. OAKLAND, CA
Sampler Signature: Marc Papineau (MP)

| SAMPLE ID | LOCATION | SAMPLING Date | SAMPLING Time | # Containers | Type Containers | MATRIX Water | MATRIX Soil | MATRIX Air | MATRIX Sludge | MATRIX Other | METHOD PRESERVED Ice | METHOD PRESERVED HCl | METHOD PRESERVED $HNO_3$ | METHOD PRESERVED Other | BTEX & TPH as Gas (602/8020 + 8015) MTBE | TPH as Diesel (8015) | Total Petroleum Oil & Grease (5520 E&F/B&F) | Total Petroleum Hydrocarbons (418.1) | EPA 601 / 8010 | BTEX ONLY (EPA 602 / 8020) | EPA 608 / 8080 | EPA 608 / 8080 PCB's ONLY | EPA 624 / 8240 / 8260 | EPA 625 / 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals | Lead (7240/7421/239.2/6010) | RCI | pH | TSS | TOC | Specific Conductivity | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| continued from page 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB11-20.5 | | 1-30-01 | 1150 | 1 | B | | ✓ | | | | ✓ | | | | | | | | ✓ | | | | | | | | | | | | | | |

59092

Page 2 of 2

| Relinquished By: | Date: | Time: | Received By: |
|---|---|---|---|
| Marc Papineau | 1-30-01 | 1215 | Marion Vineyard |
| Relinquished By: | Date: | Time: | Received By: |
| Relinquished By: | Date: | Time: | Received By: |

Remarks:
Hold all samples for potential subsequent analysis.

B = 2 inch dia. x 6 inch long brass sleeve.

PAGE 2 OF 2

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

November 20, 2000

Marc Papineau
Environmental Services
5789 Gold Creek Drive
Castro Valley, CA 94546

**Order:** 23169
**Project Name:** 1723 Fruitvale
**Project Number:** 2000-033.01
**Project Notes:**

**Date Collected:** 11/15/00
**Date Received:** 11/15/00
**P.O. Number:** 2000-033.01

On November 15, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

| Matrix | Test | Method |
|---|---|---|
| Liquid | EPA 8010 | EPA 8010 |
| | Gas/BTEX | EPA 8015 MOD. (Purgeable) |
| | | EPA 8020 |
| | TPH as Diesel | EPA 8015 MOD. (Extractable) |
| | TPH as Hydraulic Oil | EPA 8015 MOD. (Extractable) |
| Solid | EPA 8010 | EPA 8010 |
| | Gas/BTEX | EPA 8015 MOD. (Purgeable) |
| | | EPA 8020 |
| | TPH as Diesel | EPA 8015 MOD. (Extractable) |
| | TPH as Hydraulic Oil | EPA 8015 MOD. (Extractable) |

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-002 **Client Sample ID:** SB5-16.5
**Sample Time:** 3:00 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | ND | | 1 | 1 | 1 | mg/Kg | 11/16/00 | 11/17/00 | DS001106 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 89 | 50 - 120 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Hydraulic Oil | ND | | 1 | 13 | 13 | mg/Kg | 11/16/00 | 11/17/00 | DS001106 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 89 | 65 - 135 |

**Order ID:** 23169 **Lab Sample ID:** 23169-003 **Client Sample ID:** SB5-20.5
**Sample Time:** 3:20 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | ND | | 1 | 1 | 1 | mg/Kg | 11/16/00 | 11/17/00 | DS001106 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 77 | 50 - 120 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Hydraulic Oil | ND | | 1 | 13 | 13 | mg/Kg | 11/16/00 | 11/17/00 | DS001106 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 77 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle K. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-004 **Client Sample ID:** SB6-GW

**Sample Time:** 1:23 PM **Sample Date:** 11/15/00 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | ND | | 1 | 74 | 74 | µg/L | 11/16/00 | 11/17/00 | DW001105 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 86 | 45 - 105 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Hydraulic Oil | ND | | 1 | 368 | 368 | µg/L | 11/16/00 | 11/17/00 | DW001105 | EPA 8015 MOD. (Extractable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| o-Terphenyl | 86 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

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**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-002 **Client Sample ID:** SB5-16.5

**Sample Time:** 3:00 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Toluene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Ethyl Benzene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Xylenes, Total | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 112 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | ND | | 1 | 1 | 1 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 122 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

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**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-003 **Client Sample ID:** SB5-20.5

**Sample Time:** 3:20 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Toluene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Ethyl Benzene | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |
| Xylenes, Total | ND | | 1 | 0.005 | 0.005 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 108 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | ND | | 1 | 1 | 1 | mg/Kg | N/A | 11/16/00 | SGC4001113 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 120 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-004 **Client Sample ID:** SB6-GW

**Sample Time:** 1:23 PM **Sample Date:** 11/15/00 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 11/16/00 | WGC4001116 | EPA 8020 |
| Toluene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 11/16/00 | WGC4001116 | EPA 8020 |
| Ethyl Benzene | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 11/16/00 | WGC4001116 | EPA 8020 |
| Xylenes, Total | ND | | 1 | 0.5 | 0.5 | µg/L | N/A | 11/16/00 | WGC4001116 | EPA 8020 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 97 | 65 - 135 |

| Parameter | Result | Flag | DF | PQL | DLR | Units | Extraction Date | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Gasoline | 65 | x | 1 | 50 | 50 | µg/L | N/A | 11/16/00 | WGC4001116 | EPA 8015 MOD. (Purgeable) |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| aaa-Trifluorotoluene | 109 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-001 **Client Sample ID:** SB5-11.5

**Sample Time:** 2:40 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloropropane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,3-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,4-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromodichloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromoform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromomethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Carbon Tetrachloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dibromochloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dichlorodifluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Freon 113 | ND | | 1 | 5 | 5 | µg/kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Methylene Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Tetrachloroethene | 9.8 | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichlorofluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Vinyl Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| Bromochloromethane | 113 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-002 **Client Sample ID:** SB5-16.5

**Sample Time:** 3:00 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloropropane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,3-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,4-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromodichloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromoform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromomethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Carbon Tetrachloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dibromochloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dichlorodifluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Freon 113 | ND | | 1 | 5 | 5 | µg/kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Methylene Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Tetrachloroethene | 19 | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichlorofluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Vinyl Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| Bromochloromethane | 114 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-003 **Client Sample ID:** SB5-20.5

**Sample Time:** 3:20 PM **Sample Date:** 11/15/00 **Matrix:** Solid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1,2-Trichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,1-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,2-Dichloropropane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,3-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| 1,4-Dichlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromodichloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromoform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Bromomethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Carbon Tetrachloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chlorobenzene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloroform | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Chloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| cis-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dibromochloromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Dichlorodifluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Freon 113 | ND | | 1 | 5 | 5 | µg/kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Methylene Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Tetrachloroethene | 43 | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,2-Dichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| trans-1,3-Dichloropropene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichloroethene | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Trichlorofluoromethane | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |
| Vinyl Chloride | ND | | 1 | 5 | 5 | µg/Kg | 11/18/00 | SVOC1001118 | EPA 8010 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| Bromochloromethane | 118 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

**Environmental Services**
**5789 Gold Creek Drive**
**Castro Valley, CA 94546**
**Attn: Marc Papineau**

Date: 11/20/00
Date Received: 11/15/00
Project Name: 1723 Fruitvale
Project Number: 2000-033.01
P.O. Number: 2000-033.01
Sampled By: M. Papineau

## Certified Analytical Report

**Order ID:** 23169 **Lab Sample ID:** 23169-004 **Client Sample ID:** SB6-GW

**Sample Time:** 1:23 PM **Sample Date:** 11/15/00 **Matrix:** Liquid

| Parameter | Result | Flag | DF | PQL | DLR | Units | Analysis Date | QC Batch ID | Method |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,1,2-Trichloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,1-Dichloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,1-Dichloroethene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,2-Dichlorobenzene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,2-Dichloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,2-Dichloropropane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,3-Dichlorobenzene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| 1,4-Dichlorobenzene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Bromodichloromethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Bromoform | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Bromomethane | ND | | 10 | 1 | 10 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Carbon Tetrachloride | ND | | 10 | 1 | 10 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Chlorobenzene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Chloroethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Chloroform | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Chloromethane | ND | | 10 | 1 | 10 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| cis-1,2-Dichloroethene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| cis-1,3-Dichloropropene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Dibromochloromethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Dichlorodifluoromethane | ND | | 10 | 1 | 10 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Methylene Chloride | ND | | 10 | 3 | 30 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Tetrachloroethene | 290 | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| trans-1,2-Dichloroethene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| trans-1,3-Dichloropropene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Trichloroethene | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Trichlorofluoromethane | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |
| Vinyl Chloride | ND | | 10 | 0.5 | 5 | µg/L | 11/19/00 | WVOC1001112 | EPA 8010 |

| Surrogate | Surrogate Recovery | Control Limits (%) |
|---|---|---|
| Bromochloromethane | 115 | 65 - 135 |

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

**QC Batch #:** DS001106
**Matrix:** Solid
**Units:** mg/Kg
**Date Analyzed:** 11/15/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | EPA 8015 M | ND | | 25 | | 19.19 | LCS | 76.8 | | | 58.0 - 120.0 |
| TPH as Diesel | EPA 8015 M | ND | | 25 | | 20.67 | LCSD | 82.7 | 7.43 | 25.00 | 58.0 - 130.0 |

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

**QC Batch #:** DW001105 **Units:** µg/L
**Matrix:** Liquid **Date Analyzed:** 11/17/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | EPA 8015 M | ND | | 1000 | | 816.59 | LCS | 81.7 | | | 50.0 - 110.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | o-Terphenyl | | | 99 | | 45 - 105 | | | | | |
| TPH as Diesel | EPA 8015 M | ND | | 1000 | | 830.26 | LCSD | 83.0 | 1.66 | | 50.0 - 110.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | o-Terphenyl | | | 95 | | 45 - 105 | | | | | |

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

**QC Batch #:** SGC4001113 **Units:** mg/Kg
**Matrix:** Solid **Date Analyzed:** 11/13/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | EPA 8020 | ND | | 0.0052 | | 0.0052 | LCS | 100.0 | | | 75.0 - 125.0 |
| Ethyl Benzene | EPA 8020 | ND | | 0.0056 | | 0.005 | LCS | 89.3 | | | 75.0 - 125.0 |
| Toluene | EPA 8020 | ND | | 0.029 | | 0.029 | LCS | 100.0 | | | 75.0 - 125.0 |
| Xylenes, total | EPA 8020 | ND | | 0.032 | | 0.032 | LCS | 100.0 | | | 75.0 - 125.0 |
| TPH as Gasoline | EPA 8015 M | ND | | 0.469 | | 0.458 | LCS | 97.7 | | | 75.0 - 125.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 103 | | 65 - 135 | | | | | |
| Benzene | EPA 8020 | ND | | 0.0052 | | 0.005 | LCSD | 96.2 | 3.92 | 25.00 | 75.0 - 125.0 |
| Ethyl Benzene | EPA 8020 | ND | | 0.0056 | | 0.005 | LCSD | 89.3 | 0.00 | 25.00 | 75.0 - 125.0 |
| Toluene | EPA 8020 | ND | | 0.029 | | 0.028 | LCSD | 96.6 | 3.51 | 25.00 | 75.0 - 125.0 |
| Xylenes, total | EPA 8020 | ND | | 0.032 | | 0.030 | LCSD | 93.8 | 6.45 | 25.00 | 75.0 - 125.0 |
| TPH as Gasoline | EPA 8015 M | ND | | 0.469 | | 0.439 | LCSD | 93.6 | 4.24 | 25.00 | 75.0 - 125.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 95 | | 65 - 135 | | | | | |

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

**QC Batch #:** WGC4001116 **Units:** µg/L
**Matrix:** Liquid **Date Analyzed:** 11/16/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | EPA 8020 | ND | | 5.2 | | 5.44 | LCS | 104.6 | | | 75.0 - 125.0 |
| Ethyl Benzene | EPA 8020 | ND | | 5.6 | | 5.98 | LCS | 106.8 | | | 75.0 - 125.0 |
| Toluene | EPA 8020 | ND | | 29 | | 28.3 | LCS | 97.6 | | | 75.0 - 125.0 |
| Xylenes, total | EPA 8020 | ND | | 32 | | 31.4 | LCS | 98.1 | | | 75.0 - 125.0 |
| Methyl-t-butyl Ether | EPA 8020 | ND | | 36 | | 43.0 | LCS | 119.4 | | | 75.0 - 125.0 |
| TPH as Gasoline | EPA 8015 M | ND | | 469 | | 460.3 | LCS | 98.1 | | | 75.0 - 125.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 104 | | 65 - 135 | | | | | |
| Benzene | EPA 8020 | ND | | 5.2 | | 5.71 | LCSD | 109.8 | 4.84 | 25.00 | 75.0 - 125.0 |
| Ethyl Benzene | EPA 8020 | ND | | 5.6 | | 6.23 | LCSD | 111.3 | 4.10 | 25.00 | 75.0 - 125.0 |
| Toluene | EPA 8020 | ND | | 29 | | 28.9 | LCSD | 99.7 | 2.10 | 25.00 | 75.0 - 125.0 |
| Xylenes, total | EPA 8020 | ND | | 32 | | 32.5 | LCSD | 101.6 | 3.44 | 25.00 | 75.0 - 125.0 |
| Methyl-t-butyl Ether | EPA 8020 | ND | | 36 | | 35.0 | LCSD | 97.2 | 20.51 | 25.00 | 75.0 - 125.0 |
| TPH as Gasoline | EPA 8015 M | ND | | 469 | | 453.2 | LCSD | 96.6 | 1.55 | 25.00 | 75.0 - 125.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | aaa-Trifluorotoluene | | | 107 | | 65 - 135 | | | | | |

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

**QC Batch #:** WVOC1001112 **Units:** µg/L
**Matrix:** Liquid **Date Analyzed:** 11/12/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | EPA 8010 | ND | | 20 | | 20.8 | LCS | 104.0 | | | 67.0 - 135.0 |
| Chlorobenzene | EPA 8010 | ND | | 20 | | 21.3 | LCS | 106.5 | | | 70.0 - 128.0 |
| Trichloroethene | EPA 8010 | ND | | 20 | | 20.2 | LCS | 101.0 | | | 61.0 - 131.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | Bromochloromethane | | | 83 | | 65 - 135 | | | | | |
| | Fluorobenzene | | | 91 | | 65 - 135 | | | | | |
| 1,1-Dichloroethane | EPA 8010 | ND | | 20 | | 21.6 | LCSD | 108.0 | 3.77 | 25.00 | 67.0 - 135.0 |
| Chlorobenzene | EPA 8010 | ND | | 20 | | 22.5 | LCSD | 112.5 | 5.48 | 25.00 | 70.0 - 128.0 |
| Trichloroethene | EPA 8010 | ND | | 20 | | 20.7 | LCSD | 103.5 | 2.44 | 25.00 | 61.0 - 131.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | Bromochloromethane | | | 88 | | 65 - 135 | | | | | |
| | Fluorobenzene | | | 94 | | 65 - 135 | | | | | |

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

**QC Batch #:** SVOC1001118 **Units:** µg/Kg
**Matrix:** Solid **Date Analyzed:** 11/18/00

| Parameter | Method | Method Blank | Spike Sample ID | Spike Amount | Sample Result | Spike Result | QC Type | % Recovery | RPD | RPD Limits | Recovery Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | EPA 8010 | ND | | 20 | | 23.3 | LCS | 116.5 | | | 50.0 - 150.0 |
| Chlorobenzene | EPA 8010 | ND | | 20 | | 24.6 | LCS | 123.0 | | | 50.0 - 150.0 |
| Trichloroethene | EPA 8010 | ND | | 20 | | 22.3 | LCS | 111.5 | | | 50.0 - 150.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | Bromochloromethane | | | 96 | | 65 - 135 | | | | | |
| 1,1-Dichloroethane | EPA 8010 | ND | | 20 | | 26.9 | LCSD | 134.5 | 14.34 | 25.00 | 50.0 - 150.0 |
| Chlorobenzene | EPA 8010 | ND | | 20 | | 25.5 | LCSD | 127.5 | 3.59 | 25.00 | 50.0 - 150.0 |
| Trichloroethene | EPA 8010 | ND | | 20 | | 23.4 | LCSD | 117.0 | 4.81 | 25.00 | 50.0 - 150.0 |
| | **Surrogate** | | | **Surrogate Recovery** | | **Control Limits (%)** | | | | | |
| | Bromochloromethane | | | 98 | | 65 - 135 | | | | | |

# Entech Analytical Labs, Inc.

3334 Victor Court (408) 588-0200
Santa Clara, CA 95054 (408) 588-0201 - Fax

# Chain of Custody / Analysis Request

| | | | |
|---|---|---|---|
| Attention to: MARC PAPINEAU | Phone No.: (510) 881-8574 | Purchase Order No.: 2000-033.01 | Send Invoice to (if Different) SAME / Phone |
| Company Name: Environmental Service | Fax No.: (510) 581-7204 | Project Number: 2000-033.01 | Company |
| Mailing Address: 5789 Gold Creek Drive | | Project Name: 1723 Fruitvale | Billing Address (if Different) |
| City: Castro Valley, / State: CA / Zip: 94552 | | Project Location: 1723 Fruitvale Av Oakland, CA | City: / State / Zip |

Sampler: M. Papineau (MMP)

Date: 11-14-2000

Turn Around Time: Same Day ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☒ Standard ☐

Order ID:

| Client ID | Laboratory No. | Sampling Date | Sampling Time | Matrix | Composite | Grab | Containers | Preservative | Volatile Organics by GC/MS: Freon 113 ☐ 624 ☐ | Fuel Oxygenates by 8260B ☐ MTBE by 8260B ☐ | Pesticides-8081 ☐ | PCBs - 8082 ☐ | Halogenated or Aromatic Volatiles: F113 ☐ 601/8010 ☒ | 602/8020 ☐ | TPH as Gas/BTEX ☒ | 8021 ☐ | TPH as Gas/BTEX/MTBE ☐ | Base/Neutral/Acid Organics 8270 ☐ | 8270-SIMS ☐ | Fuel Scan | Diesel ☐ | w/ Si-gel Standard Cleanup ☐ | w/ Si-gel Column Cleanup ☐ | TPHd 8015m | TPH hydraulic 8015m | TRPH ☐ | Oil & Grease ☐ | THM (502.2) | Metals - Circle Below | Total ☐ | Dissolved ☐ | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB5-11.5 | 23169-001 | 11-14-00 | 1440 | S | | ✓ | 1 | no | | | | | ✓ | | | | | | | | | | | | | | | | | | | ALL SOIL |
| SB5-16.5 | -002 | 11-14-00 | 1500 | S | | ✓ | 1 | no | | | | | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | | | | | | | SAMPLES IN |
| SB5-20.5 | -003 | 11-14-00 | 1520 | S | | ✓ | 1 | no | | | | | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | | | | | | | 2x6 INCH |
| SB6-6.5 | -005 | 11-14-00 | 1025 | S | | ✓ | 1 | no | Hold sample | | | | | | | | | | | | | | | | | | | | | | | BRASS SLEEVES. |
| SB6-11.5 | -006 | 11-14-00 | 1045 | S | | ✓ | 1 | no | Hold sample | | | | | | | | | | | | | | | | | | | | | | | |
| SB6-16.5 | -007 | 11-14-00 | 1100 | S | | ✓ | 1 | no | Hold sample | | | | | | | | | | | | | | | | | | | | | | | |
| SB6-21.5 | -008 | 11-14-00 | 1130 | S | | ✓ | 1 | no | Hold sample | | | | | | | | | | | | | | | | | | | | | | | |
| SB6-25.5 | -009 | 11-14-00 | 1200 | S | | ✓ | 1 | no | Hold sample | | | | | | | | | | | | | | | | | | | | | | | |
| SB6-GWa | -004 | 11-14-00 | 1323 | W | | ✓ | 4 | HCl | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | 40 ml VOAs |
| SB6-GWb | -004 | 11-14-00 | 1323 | W | | ✓ | 2 | no | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | 1 L ambers |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

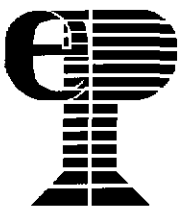
| Relinquished by: | Received by: | Date: | Time: |
|---|---|---|---|
| Marc Papineau | | 11-15-00 | 1600 |
| | | | |
| | | | |
| | | | |

**Special Instructions or Comments**

☐ NPDES Detection Limits

**72 HR RUSH**

Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W : CAM-17 ☐ Plating ☐ PPM-13 ☐ LUFT-5 ☐



environmental service

by Papineau, R.E.A. 791

5789 Gold Creek Drive Castro Valley, California 94552 (510) 88