

# ENVIRONMENTAL AUDIT, INC.

1000-A ORTEGA WAY • PLACENTIA, CA 92670-7125

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September 12, 1995

Project No. 1233

Ms. Eva Chu Hazardous Materials Specialist Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6577

RE: FOCUSED SUBSURFACE INVESTIGATION

Montgomery Ward Auto Service Center 7575 Dublin Boulevard, Dublin, California

Dear Ms. Chu:

Enclosed herewith is a copy of our report entitled, "Focused Subsurface Investigation, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California, dated September 8, 1995. Following your review of this document, Montgomery Ward & Co., Incorporated would like to schedule a meeting with you to discuss the results of our investigation and future activities at the site.

Based on the information contained in this and previous documents Environmental Audit, Inc. (EAI) has prepared, EAI has calculated the risk based clean-up levels for TPH (as gasoline) and benzene using a risk of  $1 \times 10^{-4}$ . (We previously presented calculations for TPH and benzene using risks of  $1 \times 10^{-5}$  and  $1 \times 10^{-6}$  [see EAI, 1994; EAI, 1995, EAI, 1995A].) Use of a 1 x 10<sup>-4</sup> risk results in a risk based clean-up level of ground water for emissions to indoor air for TPH (as gasoline) of 111,320  $\mu$ g/l (or 111 mg/l) and for benzene of 6,533  $\mu$ g/l (or 6.5 mg/l). For outdoor air, the calculated risk based clean-up levels are substantially higher, i.e., less stringent. The risk based clean-up levels are calculated at 3,521,640  $\mu$ g/l (or 3,521 mg/l) for TPH in ground water and 206,440 µg/l (or 206 mg/l) for benzene in ground water. Comparison of these calculated values to current ground water conditions at the site indicate that none of the TPH (as gasoline) and benzene concentrations in ground water exceed the risk based clean-up level calculated based on use of a 1 x10<sup>-4</sup> risk.

Please call the undersigned or Steven Bright, if you have any questions or need additional information. We look forward to hearing from you soon in regards to the scheduling of this meeting.

should stay at 105 or 106.

E. Chu September 12, 1995 Page 2 of 2

Sincerely,

ENVIRONMENTAL AUDIT, INC.

Frank S. Muramoto, R.G., C.HG. Senior Geologist

FSM:SAB:shm

enclosure

cc: C. West, Montgomery Ward (w/enclosure)

G. Jonas, Montgomery Ward (w/enclosure)

M. Gilmartin, Straw & Gilmartin (w/enclosure)

R. Enea, Enea Properties (w/enclosure)

R. Arulanatham, Bay Area RWOCB

# REFERENCES CITED

Environmental Audit, Inc., (EAI, 1994), "Risk Based Corrective Actions Analysis, Montgomery Ward Auto Service Center and Enea Properties Sites, Dublin, California," dated October 14, 1994.

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No. 103 EHTIFIED

, (EAI, 1995), "Addendum to Risk Based Corrective Actions Analysis, Montogmery Ward Auto Service Center and Enea Properties Sites, Dublin, California," letter dated February 6, 1995 to Ms. Eva Chu, Alameda County Environmental Health Department.

, (EAI, 1995A), "Responses to Comments, Addendum to Risk Based Corrective Actions Analysis, Montogmery Ward Auto Service Center and Enea Properties Sites, Dublin, California," letter dated February 16, 1995 to Ms. Medula Logan, Alameda County Environmental Health Department.

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# FOCUSED SUBSURFACE INVESTIGATION 7575 Dublin Boulevard Dublin, California

# Prepared for:

Montgomery Ward & Co., Incorporated 39201 Fremont Boulevard Fremont, CA 94538

Submitted to:

ALAMEDA COUNTY Environmental Health Division 1131 Harbor Bay Parkway, Room 250 Alameda, CA 94502-6577

September 8, 1995

Project No. 1233

# ENVIRONMENTAL AUDIT, INC. ®

Planning, Environmental Analyses and Hazardous Substances Management and Remediation

1000-A ORTEGA WAY PLACENTIA, CA 92670-7125 714/632-8521

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# 1.0 INTRODUCTION

This document presents the results of a focused subsurface investigation conducted at the Montgomery Ward Auto Service, 7575 Dublin Boulevard, Dublin, California (Site) (see Figures 1 and 2). The general scope of work relating to this focused subsurface investigation was discussed in a meeting held at the offices of Alameda County, Department of Environmental Health (County) between representatives of the County, the California Regional Water Quality Control Board, Bay Area Region (RWQCB), and Montgomery Ward & Co., Incorporated (Montgomery Ward). A Work Plan providing the details of the proposed work was subsequently submitted to the County for approval. The County approved the Work Plan in its letter dated May 2, 1995.

# 1.1 BACKGROUND

In or about November 1988, it was determined that one of the three 10,000-gallon capacity USTs located at the Montgomery Ward Site did not have integrity (see Figure 2). These USTs were located in a common excavation and stored unleaded, premium and regular gasoline. Montgomery Ward ceased using the USTs in November 1988 and retained A.D. Selditch & Associates, Inc. (ADS) to assist them in assessing the extent of petroleum hydrocarbons in the soil and ground water.

# 1.2 INITIAL SITE ASSESSMENT

Between December 1, 1988 and February 8, 1989, ADS drilled and sampled eight borings on the Montgomery Ward Site, i.e., borings 5, 6, 7, 8, 9, 10, 12 and 13. These borings were converted into ground water monitoring wells B-5, B-6, B-7, B-8, B-9, B-10, B-12 and B-13, respectively. These borings/wells were installed prior to the removal of the USTs; however, there is no drawing in the ADS report which shows the location of all these wells. Figure 2 shows the location of the wells presently situated on the Montgomery Ward Site.

Selected soil samples from each boring were analytically tested for total petroleum hydrocarbons (TPH) using EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020. TPH concentrations ranging from below laboratory detection limits to 2,180 milligrams per kilogram (mg/kg) were detected in the soil samples. Benzene was detected in the soil samples and ranged in concentration from 0.18 to 55 mg/kg. Toluene, xylenes and ethylbenzene also were detected. Water samples collected from the wells contained dissolved concentrations of TPH and BTEX. Lead was detected at 2.6 milligrams per liter (mg/l) in the sample collected from well B-13, and well B-12 reportedly contained free-product (see ADS, 1989).

### 1.3 REMOVAL OF THE USTs

On or about May 18, 1989, the three gasoline USTs and two associated fueling islands were removed from the Montgomery Ward Site. Soils containing petroleum hydrocarbons reportedly were present throughout most of the excavation. The soil excavated in association with removal of the USTs was disposed of off-site and the excavation backfilled with gravel. Wells B-6, B-7, B-8, B-9 and B-13 were destroyed during removal of the USTs (see ADS, 1989).

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# 1.4 ADDITIONAL SITE ASSESSMENT

In August 1989, ADS supervised the installation of two additional ground water monitoring wells (B-15 and B-16) at the Montgomery Ward Site (see Figure 2). A composite soil sample from each boring (i.e., the soil samples collected from each boring at 5, 10, 15 and 20 feet were composited) was tested for TPH and BTEX. TPH concentrations ranged from 6.3 to 10.2 mg/kg and the BTEX concentrations ranged from 0.26 to 6.5 mg/kg. TPH and BTEX also were detected in ground water samples collected from wells B-15 and B-16 (see ADS, 1989).

### 1.5 GROUND WATER EXTRACTION/TREATMENT SYSTEM

In or about the early part of 1990, an ADS designed extraction system began to control the migration of petroleum hydrocarbons in the ground water using a 15-inch diameter ground water extraction well (well B-12) (see Figure 2). The extracted ground water was filtered to remove suspended particles, treated using two 2,500-pound activated carbon canisters connected in series, and discharged to the sanitary sewer system pursuant to a permit issued by the Dublin-San Ramon Services District (see ADS, 1989).

Changes to the ground water extraction and treatment system were made in February 1992. These changes consisted of installing an eight gallon per minute (gpm) rated oil/water separator, product and surge tanks, transfer pump, and filter system.

# 1.6 GROUND WATER PUMPING TESTS

Environmental Audit, Inc. (EAI) was retained in 1991 to conduct ground water pumping tests on wells located on the Montgomery Ward Site to determine whether the existing extraction rate was sufficient to capture contaminated ground water located beneath the site. The results of the pumping tests revealed that extraction at a rate of eight gallons per minute from extraction well B-12 should be sufficient to contain ground water beneath the Montgomery Ward Site (see EAI, 1991). However, the hydraulic response of the shallow ground water encountered in the wells on the Montgomery Ward Site was more indicative of a silty sand and sand type lithology rather than the silty clays and clays which were actually encountered during investigation activities.

# 1.7 OUARTERLY GROUND WATER MONITORING

Quarterly ground water monitoring activities were initiated by EAI at the Montgomery Ward Site in April 1992. Quarterly ground water monitoring consists of the gauging and sampling of the wells associated with the Montgomery Ward Site, and the analytical testing of the obtained samples (see Table 1).

# 1.8 SUPPLEMENTAL OFF-SITE ASSESSMENT

In May 1993, EAI installed three off-site ground water monitoring wells (MW-100, MW-101 and MW-102) and advanced and sampled eight hydropunches (HP-1 through HP-8) (see Figure 3) (see EAI, 1993). Soil and ground water samples were tested for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX. Table 1 shows the results for ground water samples, and Table 2 the results for soil samples.

#### 1.9 CONE PENETROMETER TESTING

Cone penetrometer testing (CPT) was conducted on the Montgomery Ward and adjacent Enea Properties sites in July 1994 (see EAI, 1994). On the Montgomery Ward site, six CPT soundings which included pore pressure measurements, pore pressure dissipation tests, and soil vapor and soil sampling were conducted (see Figure 3). The testing showed that the predominant lithologies present to the depth explored (maximum 52 feet below ground surface [bgs]) were clayey silt, silty clays, and clays. These soils were soft and unconsolidated.

Vapor and soil sampling also were conducted as part of this CPT investigation. The vapor should be used sampling was inconclusive at depths of nine and eleven feet bgs. Analytical testing of soil vocal samples obtained at approximately 13 and 15 feet bgs showed that TPH-G and BTEX were as 43 bys different samples obtained at approximately 13 and 15 feet bgs showed that TPH-G and BTEX were detected in the soil samples. The TPH-G ranged from below laboratory detection limits to 290 ppm, and the total BTEX ranged from below laboratory detection limits to 52.2 mg/kg. The samples obtained at about 13 feet bgs were believed to be near the top of the water table; the samples obtained at approximately 15 feet were in the water table.

#### 1.10 EFFICACY OF GROUND WATER EXTRACTION SYSTEM

A ground water extraction system is operating at the Montgomery Ward Site to control the migration of dissolved petroleum hydrocarbons in the ground water. The ground water extraction system pump is currently recovering on average of about four gallons per minute which appears to be the long term yield of the extraction well (see EAI, 1995).

#### 1.11 PETROLEUM HYDROCARBON DISTRIBUTION IN SOIL

Cross sections A-A' and B-B' show the geologic interpretation of the shallow soils encountered at the Montgomery Ward Site (see Figures 3 through 5). Also shown on the cross sections are the analytical testing results of soil samples obtained during the drilling of these borings/wells. These data show that petroleum hydrocarbons were detected in unsaturated and saturated zone soils in borings/wells B-10, B-12, B-15, B-16, and SBCP1 through SBCP4 (see Table 2 and Figures 4 and 5).

#### 1.12 RISK BASED CORRECTIVE ACTIONS ANALYSIS

A risk based corrective actions analysis (RBCA) was completed in order to determine clean-up levels for BTEX and TPH-G in ground water at the Montgomery Ward and Enea Properties sites (see EAI, 1994B; EAI, 1995; and EAI, 1995A). The results of these analyses showed that depending on risk used (1 x 10<sup>-6</sup> or 1 x 10<sup>-5</sup>), the risk based clean-up levels (RBCL) for TPH in ground water for emissions into indoor air ranges from 1,113  $\mu$ g/l to 11,132  $\mu$ g/l, respectively. For benzene in ground water, the RBCL for indoor air ranges from 65.3  $\mu$ g/l (1 x 10<sup>-6</sup> risk) to 653  $\mu$ g/l (1 x 10<sup>-5</sup> risk). For outdoor air, the RBCLs for TPH ranged from 35,216  $\mu$ g/l (1 x 10<sup>-6</sup> risk) to 11,132  $\mu$ g/l (1 x 10<sup>-5</sup> risk) and for benzene from 2,604  $\mu$ g/l (1 x 10<sup>-6</sup> risk) to 20,644  $\mu$ g/l (1 x 10<sup>-5</sup> risk).

# 2.0 FIELD WORK

# 2.1 DRILLING AND SOIL SAMPLING

Ten borings (GP-1 through GP-10) were drilled and sampled at the Montgomery Ward site on June 22, 1995 as approximately shown on Figure 2. The borings were advanced using direct push technology by Transglobal Environmental Geochemistry (TEG) Strataprobe System, under the supervision of Environmental Audit, Inc. (EAI) staff. Direct push technology uses hydraulics to force a probe-drive sampler into the soil. Unlike split-spoon samplers used in hollow stem auger drilling, the probe-drive sampler containing two sixinch by 1.5-inch brass sample liners remain sealed while it is pushed into the soil to the desired sampling depth. A piston stop-pin at the trailing end of the probe-drive sampler is removed by means of extension rods inserted down the inside diameter of the probe rods after the sampler has been driven to depth. This enables the piston tip to retract into the sample tube and liner as it is displaced by soil while the sample is being pushed into the sampler. The probe rods are then retracted from the hole in order to recover soils contained in the sample liner. One benefit of this sampling technique is that no soil cuttings are generated. All borings were logged in accordance with the Unified Soil Classification System (see Appendix A).

Soil samples were collected at approximately 9-10 feet, 13-14 feet, and 15-16 feet bgs. The samples were collected from each boring using brass rings mounted within the probedrive sampler. After sample recovery, the lowermost brass ring was retained for delivery to an Alameda County, Department of Environmental Health mobile analytical laboratory which was on-site for testing (see Section 3.0). The upper brass sampling ring was used for determination of lithology and vapor sampling. The ends of the sample liner containing the sample for analytical testing were covered with plastic caps. The samples were labeled with the sample point identification, EAI project number, depth interval, time and date, and immediately placed into an ice chest chilled using frozen blue ice. The samples were kept chilled until delivered to the mobile laboratory for analytical testing. All samples were logged on a chain-of-custody record form (see Appendix B).

A Photovac MicroTIP MP-1000 Photoionizer (PID) calibrated against an isobutylene gas standard and a Bacharach TLV Sniffer (TLV Sniffer) calibrated against a hexane standard were used on the soil contained in the second sampling tube against the sampler cutting shoe, at each sampling interval within the borings, to determine if volatile hydrocarbon vapors were emanating from the soil. Each sample was placed in an air tight "Ziploc" plastic bag. The soil samples were allowed to sit in the sun and then the head space in the bags were analyzed using the PID and the TLV Sniffer. The results of the field testing were recorded on the boring logs (see Appendix A).

All borings were backfilled from termination depth to approximately four inches bgs using 1/4-inch bentonite pellets which were then hydrated with tap water, and the remaining annular space sealed to the surface using asphalt.

# 2.2 SAMPLING EQUIPMENT CLEANING PROTOCOL

The drive sampler was disassembled and decontaminated prior to each sampling using the following procedure:

All excess soil was scraped off the sampler parts;

The sampler was washed in a solution of Alconox detergent and tap water; and

The sampler was rinsed with distilled water.

# 3.0 ANALYTICAL TESTING

All samples for analytical testing were delivered to the County's mobile analytical laboratory, a state of California certified mobile hazardous waste testing laboratory (certificate no. 1944). The mobile laboratory is certified for all tests proposed as part of this investigation.

All soil samples were tested for TPH-G using modified EPA Method 8015 and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020. Table 3 summarizes the results of the testing. Appendix C contains the laboratory reports.

# 4.0 DISCUSSION

The results of the analytical testing indicate that maximum detected TPH-G concentration was 44.9 mg/kg in sample GP-9 at 12.5-13'. No benzene was detected in any of the soil samples tested. Toluene was detected in concentrations ranging from not detected (only one sample GP-1 @ 15-15.5') to a maximum of 1.4 mg/kg (GP-4 at 12.5-13'). Xylenes were detected in every sample tested in concentrations ranging from 0.562 to 5.41 mg/kg. Ethylbenzene was detected in seven of the samples tested at a maximum concentration of 1.040 mg/kg (sample GP-1 at 12.5-13').

# 5.0 LIMITATION

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. No other warranty or representation, expressed or implied, is made as to the professional advice contained in this report.

# 6.0 REFERENCES

- A.D. Selditch & Associates, Inc., (ADS, 1989), "Proposed Plan Groundwater Cleanup, Montgomery Ward, 7575 Dublin Blvd., Dublin, CA 94568", dated 1989.
- Environmental Audit, Inc., (EAI, 1991), "Ground Water Pumping Tests and a Review of Ground Water Treatment System, 7575 Dublin Boulevard, Dublin, California," dated November 1, 1991.
- ———, (EAI, 1993), "Phase II Soil and Ground Water Investigation, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California," dated June 16, 1993.
- , (EAI, 1994), "Phase III Subsurface Investigation, Montgomery Ward Auto Service Center and Enea Properties Sites, Dublin, California," dated October 14, 1994 (EAI, 1994).
- , (EAI, 1994A), "Risk Based Corrective Actions Analysis, Montgomery Ward Auto Service Center and Enea Properties Sites, Dublin, California," dated October 14, 1994.
- , (EAI, 1995), "Responses to Comments, Addendum to Risk Based Corrective Actions Analysis, Montogmery Ward Auto Service Center and Enea Properties Sites, Dublin, California," letter dated February 16, 1995 to Ms. Medula Logan, Alameda County Environmental Health Department.
- , (EAI, 1995A), "Quarterly Ground Water Monitoring Report, Third Quarter 1995, Montgomery Ward Auto Service Center , 7575 Dublin Boulevard, Dublin, California," in press.

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# **TABLES**

TABLE 1

ANALYTICAL TESTING RESULTS

Parts per billion (ppb)

Project No. 1233

TABLE 1

ANALYTICAL TESTING RESULTS

Parts per billion (ppb)

04-21-95		<del></del>				Pag	e 2 of 4
Well B-15	Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
Well B-15         04-16-92         65         4.4         2.4         6.1         2.8         ND           07-24-92         ND         3.6         1.5         3.1         1.6         ND           10-22-92         ND         1.7         0.89         0.78         0.88         ND           10-15-93         ND         ND <td< td=""><td>04-21-95</td><td></td><td>190</td><td>320</td><td>420</td><td>1500</td><td>ND</td></td<>	04-21-95		190	320	420	1500	ND
04-16-92 65 4.4 2.4 6.1 2.8 ND 07-24-92 ND 3.6 1.5 3.1 1.6 ND 10-22-92 ND 1.7 0.89 0.78 0.88 ND 01-15-93 ND ND ND ND ND ND ND 13 04-15-93 ND 2.8 ND 3.0 1.5 ND 01-14-93 ND ND ND ND 0.57 0.74 7.8 10-14-93 ND ND ND ND 0.57 0.74 7.8 10-14-93 ND ND ND ND 0.57 1.5 ND 01-13-94 ND ND ND 0.92 0.70 2 ND 07-05-94 ND	07-28-95	10000	110	120	490	1500	ND
07-24-92   ND	Well B-15						
10-22-92   ND	04-16-92	65	4.4	2.4	6.1	2.8	ND
01-15-93 ND ND ND ND ND ND 13   04-15-93 ND 2.8 ND 3.0 1.5 ND   07-14-93 ND 0.96 2.6 1.3 3.6 25   01-13-94 ND ND ND ND 0.97 0.70 2 ND   08-04-04-94 ND ND ND ND 0.56 1 ND	07-24-92	ND	3.6	1.5	3.1	1.6	ND
04-15-93 ND	10-22-92	ND	1.7	0.89	0.78	0.88	ND
07-14-93         ND         ND         ND         0.57         0.74         7.8           10-14-93         ND         0.96         2.6         1.3         3.6         25           10-14-94         ND         ND         0.92         0.70         2         ND           04-04-94         ND	01-15-93	ND	ND	ND	ND	ND	13
10-14-93	04-15-93	ND	2.8	ND	3.0	1.5	ИD
01-13-94 ND ND ND 0.92 0.70 2 ND 04-04-94 ND ND ND ND ND 0.56 1 ND	07-14-93	ND	ND	ND	0.57	0.74	7.8
04-04-94	10-14-93	ND	0.96	2.6	1.3	3.6	25
07-05-94 ND 10-03-94 ND	01-13-94	O ND	ND	0.92	0.70	2	ND
10-03-94	04-04-94	ND	ND	ND	0.56	1	ND
01-18-95 ND ND ND 1.0 ND 2.2 ND 04-21-95 ND ND ND 1.0 ND	07-05-94	ND	ND	ND .	ND	ND	ND
04-21-95 ND	10-03-94	ND	ND	ND	ND	ND	ND
Well B-16         ND	01-18-95	ND	ND	0.69	ND	2.2	ND
Well B-16         04-16-92       1300       390       1.7       35       9.3       ND         07-24-92       1600       120       5.7       120       410       ND         10-22-92       1000       76       ND       55       130       ND         01-15-93       160       6.5       0.86       2.3       2.6       5.5         04-15-93       300       65       ND       13       2       ND         07-14-93       170       5.9       ND       4.6       12       ND         10-14-93       390       11       2.4       16       45       21         01-13-94       350       8.7       0.62       25       68       ND         04-04-94       550       8.7       ND       35       81       ND         07-05-94       850       14       5.6       52       130       ND         10-03-94       210       5.3       ND       26       5.8       ND         01-18-95       ND       ND       0.94       ND       1.3       2.7         04-21-95       ND       ND       0.66       ND       ND <td>04-21-95</td> <td>ND</td> <td>ND</td> <td>1.0</td> <td>ND</td> <td>2.5</td> <td>ND</td>	04-21-95	ND	ND	1.0	ND	2.5	ND
04-16-92	07-28-95	ND	ND	ND	ND	ND	ND
07-24-92	Well B-16						
07-24-92	04-16-92	1300	390	1.7	35	9.3	ND
10-22-92       1000       76       ND       55       130       ND         01-15-93       160       6.5       0.86       2.3       2.6       5.5         04-15-93       300       65       ND       13       2       ND         07-14-93       170       5.9       ND       4.6       12       ND         10-14-93       390       11       2.4       16       45       21         01-13-94       350       8.7       0.62       25       68       ND         04-04-94       550       8.7       ND       35       81       ND         07-05-94       850       14       5.6       52       130       ND         10-03-94       210       5.3       ND       26       5.8       ND         01-18-95       ND       ND       0.94       ND       1.3       2.7         04-21-95       ND       ND       0.66       ND       ND       ND         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94 </td <td></td> <td></td> <td></td> <td>5.7</td> <td>120</td> <td></td> <td>ND</td>				5.7	120		ND
01-15-93							
04-15-93       300       65       ND       13       2       ND         07-14-93       170       5.9       ND       4.6       12       ND         10-14-93       390       11       2.4       16       45       21         01-13-94       350       8.7       0.62       25       68       ND         04-04-94       550       8.7       ND       35       81       ND         07-05-94       850       14       5.6       52       130       ND         10-03-94       210       5.3       ND       26       5.8       ND         01-18-95       ND       ND       0.94       ND       1.3       2.7         04-21-95       ND       ND       0.66       ND       ND       ND       ND         07-28-95       57       0.71       ND       1.6       2.6       ND         Well MW-100         Well MW-100         05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93							5.5
10-14-93       390       11       2.4       16       45       21         01-13-94       350       8.7       0.62       25       68       ND         04-04-94       550       8.7       ND       35       81       ND         07-05-94       850       14       5.6       52       130       ND         10-03-94       210       5.3       ND       26       5.8       ND         01-18-95       ND       ND       0.94       ND       1.3       2.7         04-21-95       ND       ND       0.66       ND       ND       ND       ND         07-28-95       57       0.71       ND       1.6       2.6       ND         Well MW-100         Well MW-100         Well MW-100         05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330	04-15-93	300	65	ND	13		ND
01-13-94	07-14-93	170	5.9	ND	4.6	12	ND
04-04-94       Z       550       8.7       ND       35       81       ND         07-05-94       850       14       5.6       52       130       ND         10-03-94       210       5.3       ND       26       5.8       ND         01-18-95       ND       ND       0.94       ND       1.3       2.7         04-21-95       ND       ND       ND       0.66       ND       ND       ND       ND         07-28-95       57       0.71       ND       1.6       2.6       ND         Well MW-100         Well MW-100         05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND </td <td>10-14-93</td> <td>390</td> <td>11</td> <td>2.4</td> <td>16</td> <td>45</td> <td>21</td>	10-14-93	390	11	2.4	16	45	21
07-05-94         850         14         5.6         52         130         ND           10-03-94         210         5.3         ND         26         5.8         ND           01-18-95         ND         ND         ND         0.94         ND         1.3         2.7           04-21-95         ND         ND         ND         0.66         ND         ND         ND         ND           07-28-95         57         0.71         ND         1.6         2.6         ND           Well MW-100           05-13-93         13000         83         ND         960         820         NA           07-14-93         13000         32         ND         1400         790         8           10-14-93         7500         48         16         900         520         22           01-13-94         7000         51         ND         590         330         ND           04-04-94         9800         69         ND         540         410         ND           07-05-94         5900         31         8.7         190         190         ND           10-03-94         3900         <	01-13-94	350	8.7	0.62	25	68	ND
10-03-94 210 5.3 ND 26 5.8 ND 01-18-95 ND ND ND 0.94 ND 1.3 2.7 04-21-95 ND ND ND 0.66 ND ND ND ND ND 07-28-95 57 0.71 ND 1.6 2.6 ND ND ND 05-13-93 13000 83 ND 960 820 NA 07-14-93 13000 32 ND 1400 790 8 10-14-93 7500 48 16 900 520 22 01-13-94 7000 51 ND 590 330 ND 04-04-94 9800 69 ND 540 410 ND 07-05-94 ↓ 5900 31 8.7 190 190 ND 10-03-94 3900 ND ND ND ND 220 200 ND 01-18-95 3700 48 31 190 120 2.8	04-04-94 2	<b>ረ</b> 550	8.7	ND	35	81	ND
01-18-95         ND         ND         0.94         ND         1.3         2.7           04-21-95         ND	07-05-94	850	14	5,6	52	130	ND
04-21-95 ND ND 0.66 ND ND ND ND 07-28-95 57 0.71 ND 1.6 2.6 ND ND ND 07-28-95 57 0.71 ND 1.6 2.6 ND ND ND 05-13-93 13000 83 ND 960 820 NA 07-14-93 13000 32 ND 1400 790 8 10-14-93 7500 48 16 900 520 22 01-13-94 7000 51 ND 590 330 ND 04-04-94 9800 69 ND 540 410 ND 07-05-94 5900 31 8.7 190 190 ND 10-03-94 3900 ND ND ND 220 200 ND 01-18-95 3700 48 31 190 120 2.8	10-03-94	210	5.3	ND	26	5.8	ND
07-28-95       57       0.71       ND       1.6       2.6       ND         Well MW-100         05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND         10-03-94       3900       ND       ND       220       200       ND         01-18-95       3700       48       31       190       120       2.8	01-18-95	ИD	ND	0.94	ND	1.3	2.7
Well MW-100         05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND         10-03-94       3900       ND       ND       ND       220       200       ND         01-18-95       3700       48       31       190       120       2.8	04-21-95	ND	ND	0.66	ND	ND	ND
05-13-93       13000       83       ND       960       820       NA         07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND         10-03-94       3900       ND       ND       220       200       ND         01-18-95       3700       48       31       190       120       2.8	07-28-95	57	0.71	ND	1.6	2.6	ND
07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND         10-03-94       3900       ND       ND       220       200       ND         01-18-95       3700       48       31       190       120       2.8	Well MW-10	0					
07-14-93       13000       32       ND       1400       790       8         10-14-93       7500       48       16       900       520       22         01-13-94       7000       51       ND       590       330       ND         04-04-94       9800       69       ND       540       410       ND         07-05-94       5900       31       8.7       190       190       ND         10-03-94       3900       ND       ND       220       200       ND         01-18-95       3700       48       31       190       120       2.8	05-13-93	13000	83	ND	960	820	NA
10-14-93     7500     48     16     900     520     22       01-13-94     7000     51     ND     590     330     ND       04-04-94     9800     69     ND     540     410     ND       07-05-94     5900     31     8.7     190     190     ND       10-03-94     3900     ND     ND     220     200     ND       01-18-95     3700     48     31     190     120     2.8							
01-13-94 7000 51 ND 590 330 ND 04-04-94 9800 69 ND 540 410 ND 07-05-94 5900 31 8.7 190 190 ND 10-03-94 3900 ND ND ND 220 200 ND 01-18-95 3700 48 31 190 120 2.8							
04-04-94 9800 69 ND 540 410 ND 07-05-94 5900 31 8.7 190 190 ND 10-03-94 3900 ND ND ND 220 200 ND 01-18-95 3700 48 31 190 120 2.8							
07-05-94 \ 5900 31 8.7 190 190 ND 10-03-94 3900 ND ND ND 220 200 ND 01-18-95 3700 48 31 190 120 2.8							
10-03-94 \ 3900							
01-18-95 3700 48 31 190 120 2.8	71						
	01-18-95						2.8
	04-21-95	3100	10		130	44	ND

TABLE 1

ANALYTICAL TESTING RESULTS
Parts per billion (ppb)

Page 3 of 4

	TOU C			D.I. II		e 3 of 4
Compounds	TPH-G	Benzene		Ethylbenzene	Xylenes	Lead
07-28-95	3300	ND	ND	100	42	ND
Well MW-101	Į					
05-13-93	ND	ND	ND	NĐ	ND	NA
07-14-93	ND	ND	ИD	ND	ND	11
معين 93-14-10	ND	0.65	0.89	ND	1.1	ND
01-13-94	ND	ND	ND	ND	ND	28
04-04-94 N	Q ND	ND	ND	ND	ND	ND
07-05-94	ND	ND	ND	ND	ND	ND
10-03-94	ND	ND	ND	ND	ND	ND
01-18-95	ND	ND	ND	ND	ND	2
04-21-95	ND	ND	ND	ND	ND	ND
07-28-95	ND	ND	ND	ИD	ND	ND
XX. II XAXX7 102	•					
Well MW-102 05-13-93	2 3600	17	ND	130	63	NA
03-13-93 07-14-93	1500	13	ND	64	4.9	ND
10-14-93	24000	9.6	5.2	60	60	ND
01-13-94	2000	22	ND	26	55	ND
04-04-94	2100	16	2.5	20 15	35 35	ND
04-04-94 07-05-94 <i>リ</i> メ	( 1300	7	2.5 2.9	10	23	ND
10-03-94 4 <i>(</i>	620	5.1	ND	5.2	23 11	ND
01-18-95	440	ND	ND	3.0	5.3	3
04-21-95	250	ND ND	0.78	0.96	0.63	ND
07-28-95	140	ND ND	ND	ND	0.70	ND
EFFLUENT						
04-15-93	ND	ND	ND	ND	ND	ND
07-14-93	ND	ND	ND	ND	ND	ND
10-14-93	ND	ND	ND	ND	0.97	48
01-13-94	ND	ND	ND	ND	ND	ND
04-04-94	ND	ND	ND	ND	ND	33
07-05-94	ND	ND	ND	ND	ND	ND
10-03-94	ND	ND	ND	ND	ND	ND
01-18-95	ND	ND	ND	ND	ND	ND
04-21-95	ND	1.0	ND	ND	ND	ND
07-28-95	ND	ND	ND	ND	1.5	ND
ENEA MW-1						
10-14-93	5700	76	19	160	460	ND
04-04-94	7000	27	ND	260	49	ND
07-05-94	5100	23	ND	260	50	ND
10-03-94	4400	8.1	ND	170	50	ND
01-18-95	2000	7.1	2.4	47	5.5	2

TABLE 1
ANALYTICAL TESTING RESULTS

Parts per billion (ppb)

					Pag	e 4 of 4
Compounds	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	Lead
04-21-95	1400	2.9	9.0	22	1.2	5.8
07-28-95	1100	ND	ND	14	1.4	ND
ENEA MW-2	<b>,</b>					
10-14-93	ND	ND	ND	1.1	0.71	21
04-04-94	ND	ND	ND	ND	ND	21
07-05-94	ND	ND	ND	ND	ND	ND
10-03-94	590	1.1	ND	22	6.5	ND
01-18-95	ND	ND	ND	ND	ND	2.4
04-21-95	ND	ND	ND	ND	ND	ND
07-28-95	ND	ND	ND	ND	0.57	ND
ENEA MW-3	}					
10-14-93	2600	26	30	100	130	ND
04-04-94	2600	13	3.4	90	140	ND
07-05-94	3400	15	5	31	48	ND
10-03-94	1400	6.3	ND	31	36	ND
01-18-95	2300	5.1	1.6	2.9	18	2.1
04-21-95	1900	5.3	ND	7.5	4.2	ND
07-28-95	1400	ND	ND	5.5	1.5	ND
ENEA MW-4	ļ					
04-04-94	ND	ND	ND	ND	ND	23
07-05-94	ND	ND	0.5	ND	0.62	ND
10-03-94	ND	ND	ND	ND	ND	ND
01-18-95	ND	ND	0.87	ND	ND	7.2
04-21-95 (X	( ND	ND	1.7	ND	ND	2.8
07-28-95	ND	ND	ND	ND	ND	2.9

# NOTE:

In July 28, 1995 sampling, the Methyl-tert-butylether level was 55 ppb in Well B-10, 10 ppb in Well ENEA MW-1, 11 ppb in Well ENEA MW-3 and not detected in other wells.

ND Not Detected NA Not Analyzed

DTP.1233-ANALYTIC.DOC

TABLE 2

ANALYTICAL TESTING RESULTS FOR SOIL SAMPLES
COLLECTED BY EAI THROUGH 1994

Parts per Million (ppm)

Page 1 of 1

Sample Number	ТРН-G	Benzene	Toluene	Ethyl- Benzene	Total Xylenes
B-100 @ 5'	ND	ND	ND	ND	ND
B-100 @ 9'	ND	ND	0.007	ND	ND
B-101 @ 5'	ND	ND	0.68	ND	ND
B-101 @ 9'	ND	ND	0.048	ND	ND
B-102 @ 5'	ND	ND	0.0078	ND	0.006
B-102 @ 9'	ND	ND	ND	ND	ND
SBCP-1 @ 9-9.5'	ND	ND	ND	ND	ND
SBCP-1 @ 13-13.5'	290	2.0	6.2	7.0	37
SBCP-2 @ 13-13.5'	230	1.7	1.1	4.4	23
SBCP-2 @ 15-15.5'	5.3	0.065	0.030	0.19	0.41
CDCD 2 0 12 12 5	<b>5</b> 7	0.60	4.0		2.0
SBCP-3 @ 13-13.5'	71	0.68	4.8	1.7	8.9
SBCP-3 @ 15-15.5	1.9	0.012	0.037	0.027	0.11
SBCP-4 @ 12'	81	0.29	0.20	0.91	4.3

ND Not Detected

FSM WORD 1233R571 DOC

TABLE 3
CONCENTRATIONS OF TPH-G AND BTEX IN SOIL SAMPLES

(in parts per million)

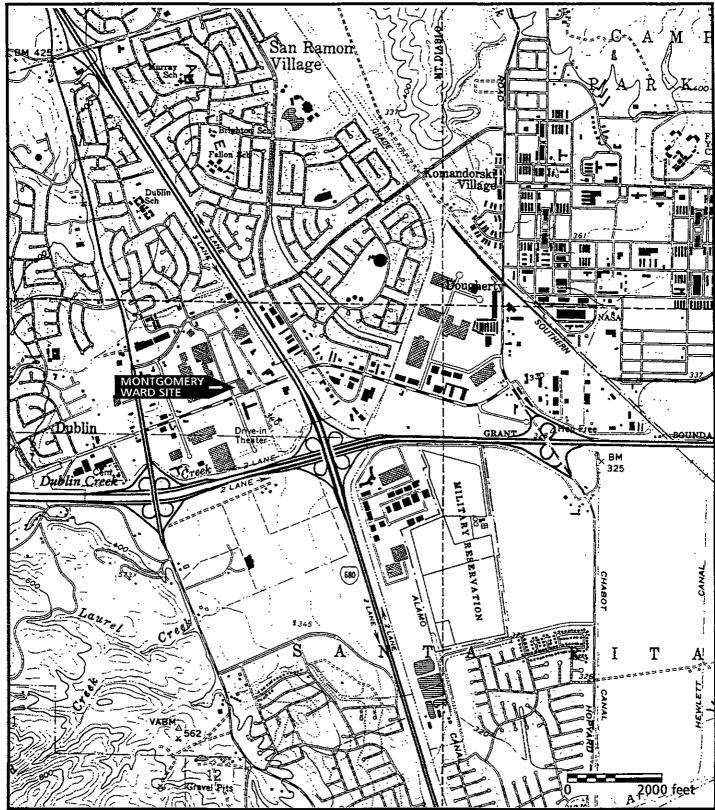
Page 1 of 1

					Page 1 of 1
Sample ID #	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes
GP-1 @ 9.5-10'	ND	ND	0.439	ND	0.607
GP-1 @ 12.5-13'	ND	ND	0.156	1.040	5.410
GP-1 @ 15.5-16'	ND	ND	ND	ND	0.162
GP-2 @ 9.5-10'	ND	ND	0.435	ND	0.579
GP-2 @ 12.5-13'	10.5	ND	0.111	ND	1.040
GP-2 @ 15.5-16'	ND	ND	0.389	ND	0.578
GP-3 @ 9.5-10'	ND	ND	0.482	ND	0.629
GP-3 @ 12.5-13'	36.7	ND	0.713	ND	1.350
GP-3 @ 15.5-16'	11.5	ND	0.978	ND	1.250
GP-4 @ 9.5-10'	14.3	ND	0.444	ND	0.608
GP-4 @ 12.5-13'	21.8	ND	1.400	0.480	1.970
GP-4 @ 15.5-16'	ND	ND	0.456	ND	0.559
GP-5 @ 9.5-10'	ND	ND	0.437	ND	0.562
GP-5 @ 12.5-13'	10.6	ND	0.734	ND	1.050
GP-5 @ 15.5-16'	ND	ND	0.663	ND	0.923
GP-6 @ 9.5-10'	ND	ND	0.445	ND	0.612
GP-6 @ 12.5-13'	19.8	ND	0.079	0.492	1.980
GP-6 @ 15.5-16'	18.0	ND	0.392	ND	0.617
GP-7 @ 9.5-10'	ND	ND	0.406	0.423	1.580
GP-7 @ 12.5-13'	35.5	ND	0.837	0.681	4.260
GP-7 @ 15.5-16'	12.9	ND	0.428	0.338	1.450
GP-8 @ 9.5-10'	ND	ND	0.553	ND	0.876
GP-8 @ 12.5-13'	15.6	ND	0.460	0.236	1.660
GP-8 @ 15.5-16'	ND	ND	0.397	ND	0.619
GP-9 @ 9.5-10'	ND	ND	0.389	ND	0.616
GP-9 @ 12.5-13'	44.9	ND	0.962	ND	1.790
GP-9 @ 15.5-16'	ND	ND	0.444	ND	0.722
GP-10 @ 9.5-10'	ND	ND	0.442	ND	0.659

(1) ND = Not Detected above detection limits. Detection limits: TPH-G=10 ppm and BTEX≈0.005 ppm.

FSM:WORD:1233T571,DOC

# **FIGURES**





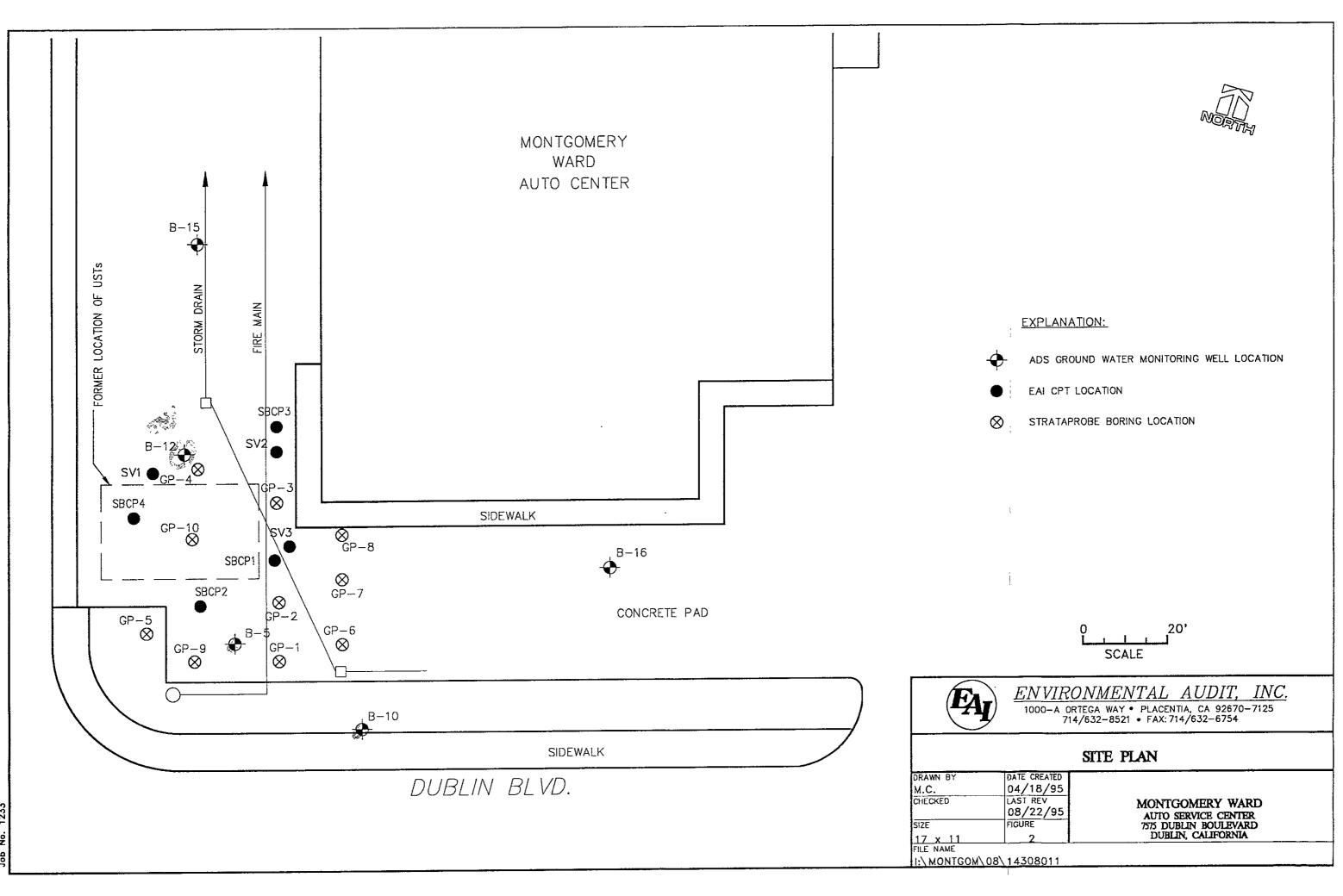
Environmental Audit, Inc.

Montgomery Ward Auto Service Center
Dublin, California

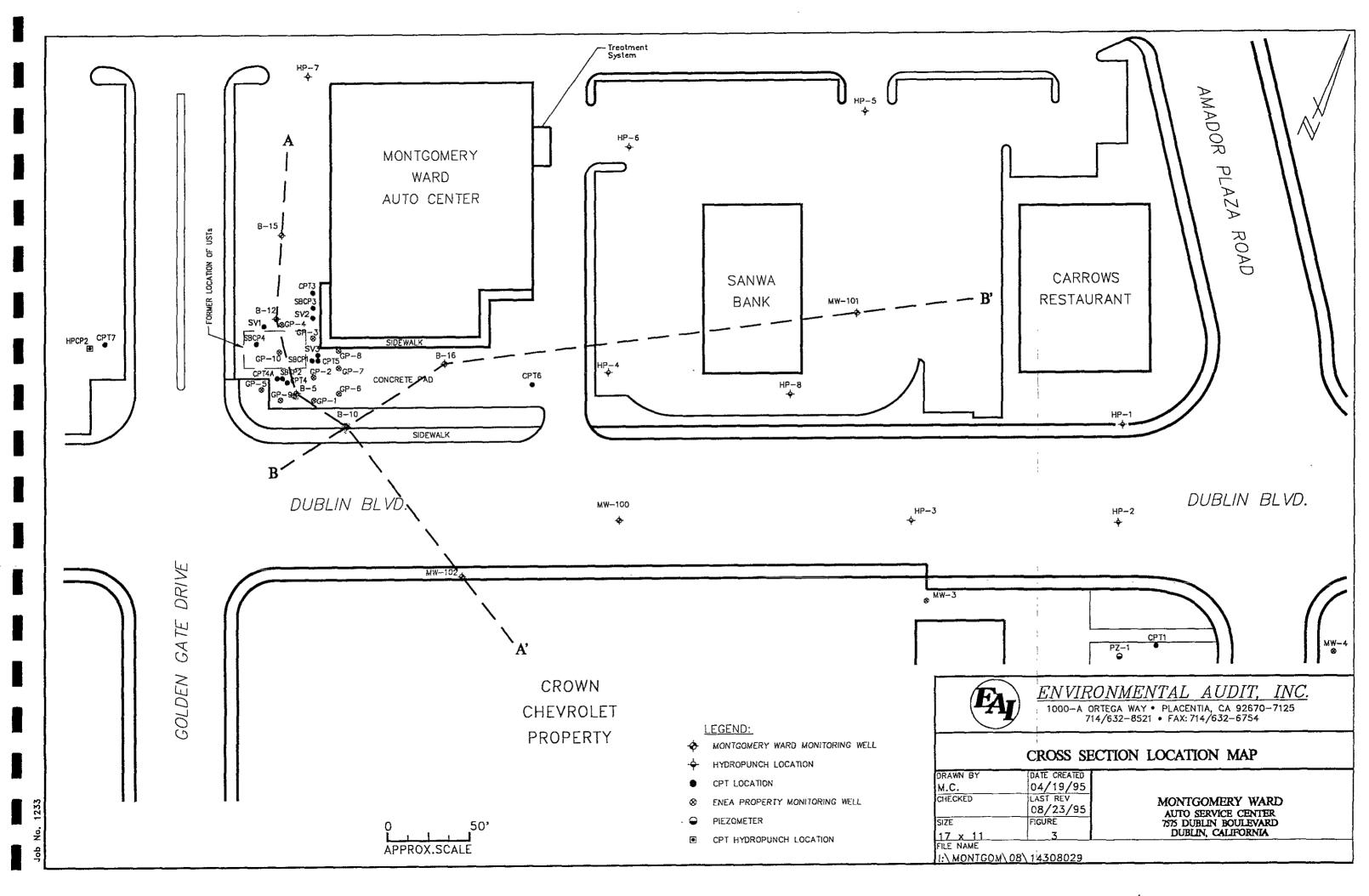


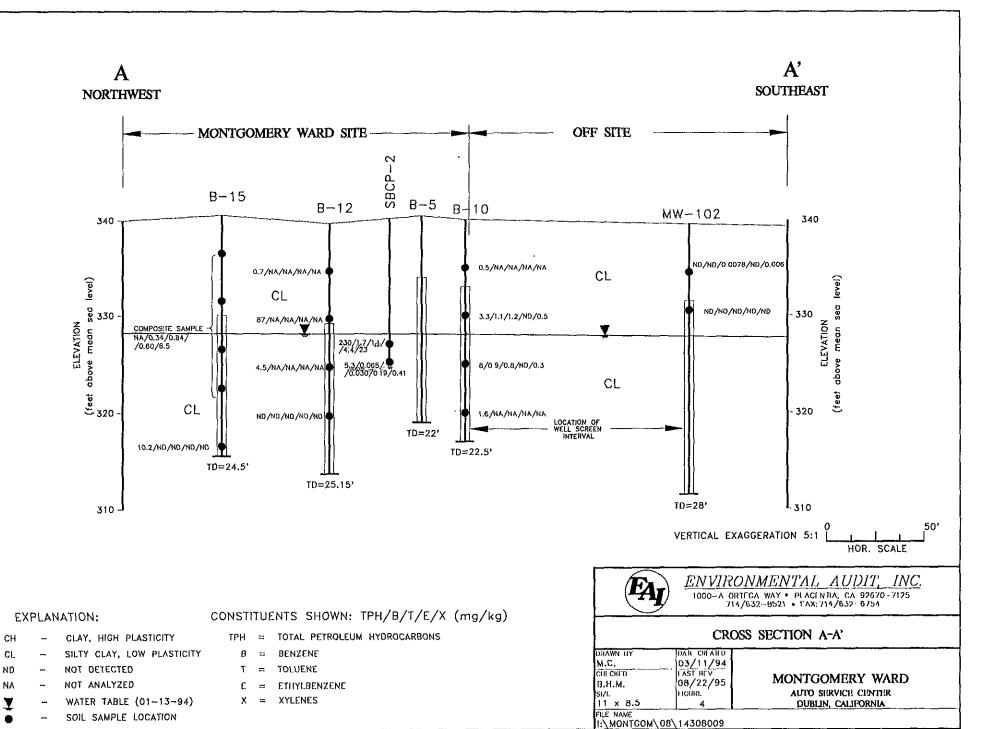
SOURCE: USGS TOPOGRAPHIC 7.5 MINUTE SERIES DUBLIN, CALIFORNIA QUADRANGLE

Figure 1

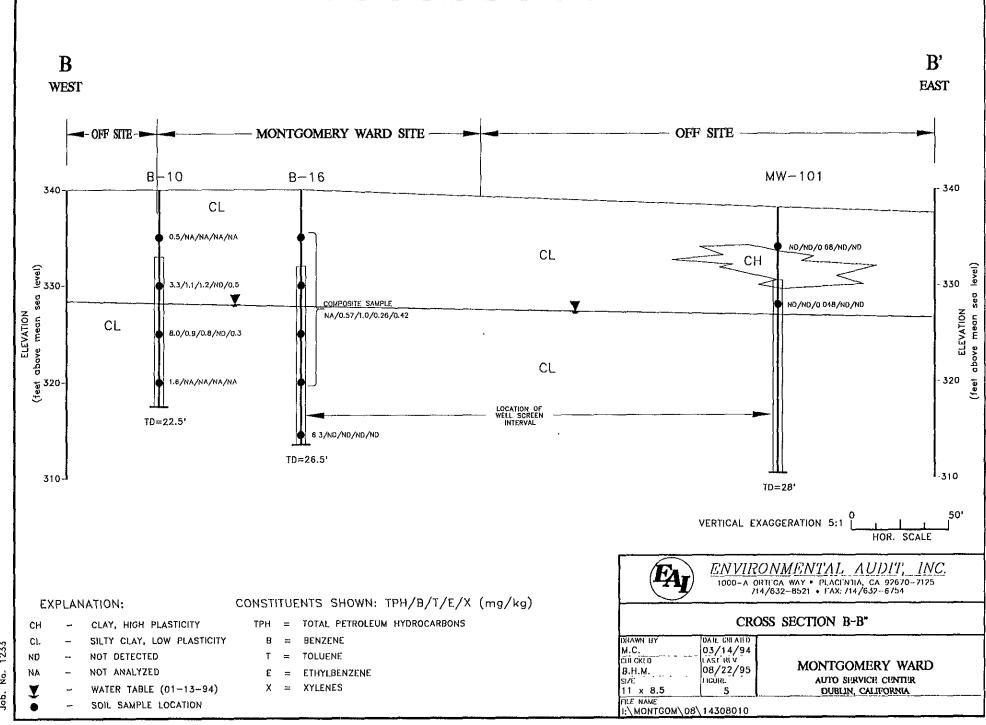


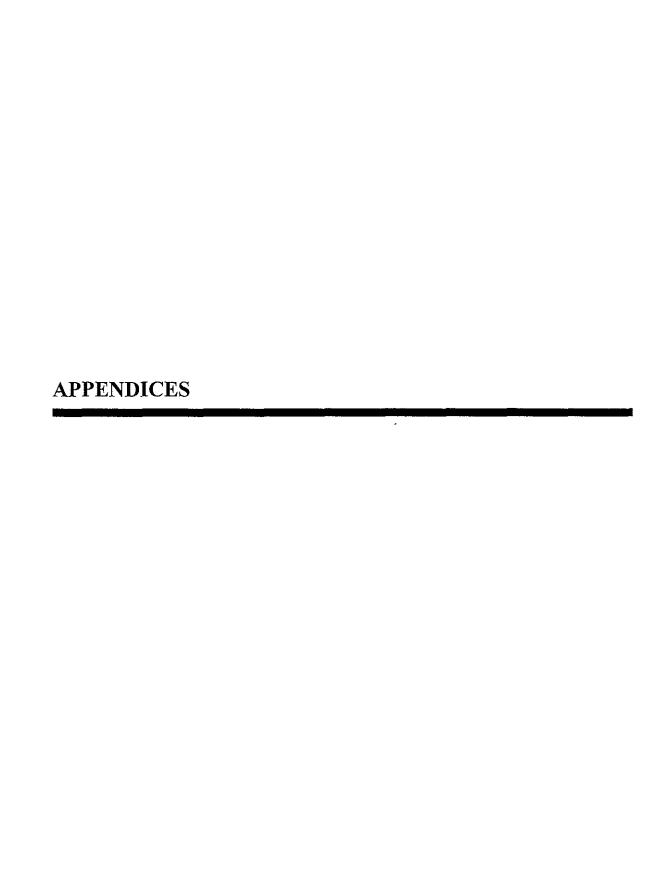
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Job. No. 1233





APPENDIX A: Boring Logs

			GRA	PHIC	<b>GEO</b>	TEC	HNICAL BORING LOG PAGE: 1 OF 1
CLIENT:	Mon	gomery	Ward Au	to Serv	ice Cen	ter	PROJECT NO.: 1233 DRILL HOLE: GP-1
SITE LO	CATIO	N: <u>7575</u>	<u>Dublin</u>	<u>Bouleva</u>	rd, Dub	lin, Çal	lifornia
DRILLING CO: TEG TYPE OF RIG: Stratapro							TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: Direct Push						·	HOLE DIAMETER: _2"
DRIVE W	VEIGH"	T/HEIGH	OF DR	OP: <u>95</u>	# percu:	ss.	REFERENCE OR DATUM: Ground Level
START DATE: 6/22/95 COMPLETION DATE: 6/22/95							
							DESCRIPTION
							Pattoning Crase LEPHOLOGY, select grain size, sorting angularity
							Missis emissiones wetness
				<i>[[[]]</i> 			
		<del></del>				-	
0			<del></del>		CL	0.4	O-3" ASPHALT
				İ			
				1			
5_							
					! 		
10-		□ N/A	08:20	1/2		10.0	
10-		$\Box$		ļ	CL		SILTY CLAY. Brown with slight red brown mottling. Plastic. Root holes present. Appears dry.
		<b>□</b> N/A	08:32	10/66		13.0	
15					CL		SILTY CLAY. Brown mottled with grey. Soil more brittle than at 9-10'. Appears dry. HC odor.
" —		∏ N/A	08:45	88/54		16.0	SLIGHTLY SANDY SILTY CLAY. Brown. Soft. Pliable, Moist.
	]						HC odor. Free water encountered. Boring GP-1 backfilled with bentonite and hydrated with tap
20-	]						water. Boring capped with asphalt to match existing
							pavement.
_	-						
25	7						
	]						
30	}						
	-						
	]					ļ	
35—	-						
	<u> </u>						
	-						
40	]						
45							
<b>}</b>				<u> </u>	<u> </u>		
NOTES. GW		ured well	<i>B-10</i> @	10.3	below g	round	surface (i.e., from top of CGS). Vapor measurments:

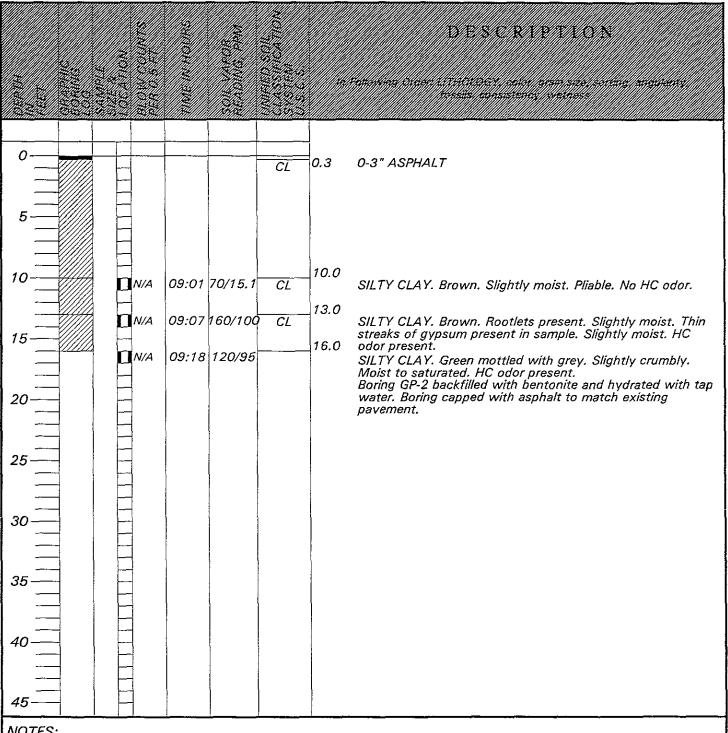
GW measured well B-10 @ 10.3' below ground surface (i.e., from top of CGS). Vapor measurments: TLV/PID. TLV measured using a Bacharach TLV sniffer; PID measurment obtined using a Photovac photoionization detector.



ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

GRAPHIC GEOTECHNICAL BORING LOG PAGE: 1	OF _1
CLIENT: Montgomery Ward Auto Service Center PROJECT NO.: 1233 DRILL HOLE: GP-2	
SITE LOCATION: 7575 Dublin Boulevard, Dublin, California	
DRILLING CO: TEG TYPE OF RIG: Strataprobe SP-1	
DRILLING METHOD/EQUIPMENT: <u>Direct Push</u> HOLE DIAMETER: <u>2"</u>	
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss. REFERENCE OR DATUM: Ground Level	
START DATE: 6/22/95 COMPLETION DATE: 6/22/95	<del></del>



NOTES:

Vapor mesurements: TLV/PID measurements. TLV measured using a Bacharach TLV sniffer; PID measurement obtained using a Photovac photoionization detector.

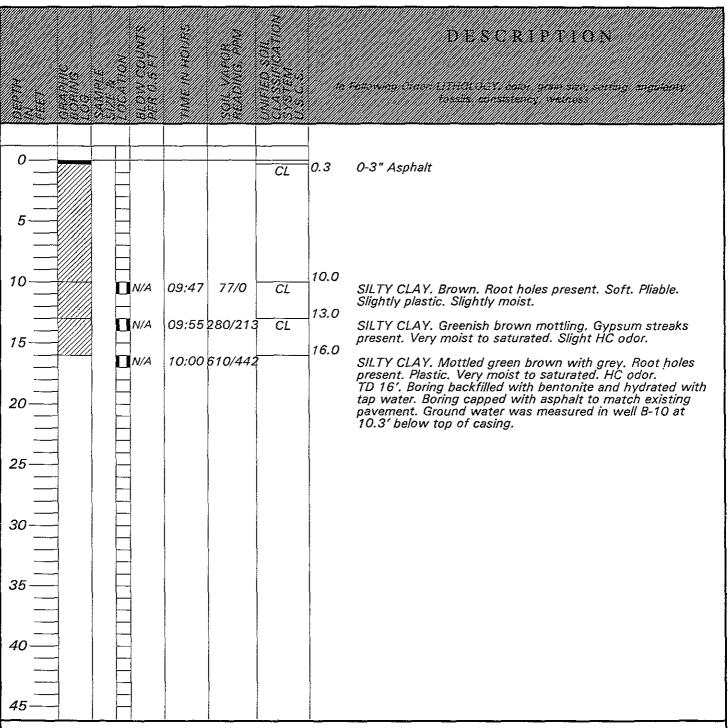


ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: FSM DATE: 6/22/95 APPROVED BY:FSM RCE #: 4248

GRAPHIC GEOTEC	HNICAL BORING LOG PAGE: 1 OF 1
CLIENT: Montgomery Ward Auto Service Center	PROJECT NO.: 1233 DRILL HOLE: GP-3
SITE LOCATION: 7575 Dublin Boulevard, Dublin, Ca	alifornia
DRILLING CO: <u>TEG</u>	TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: <u>Direct/Push</u>	HOLE DIAMETER: 2"
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	REFERENCE OR DATUM: Ground Level
START DATE: <u>6/22/95</u>	COMPLETION DATE: 6/22/95



NOTES:

Vapor measuremnts: TLV/PID measurements. TLV measured using a Bacharach TLV sniffer. PID measurement obtained using a Photovac photoionization detector.



ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

	GRA	PHIC GEOTEC	HNICAL BORING LOG PAGE: 1 OF 1
CLIENT: Montg	omery Ward A	uto Service Center	PROJECT NO.: 1233 DRILL HOLE: GP-4
SITE LOCATION	l: <u>7575 Dublin</u>	Boulevard, Dublin, Ca	lifornia
DRILLING CO: _		·	TYPE OF RIG: <u>Strataprobe SP</u>
DRILLING METH	IOD/EQUIPMEN	IT: <u>Direct Push</u>	HOLE DIAMETER: 2"
DRIVE WEIGHT/	HEIGHT OF DE	ROP: <u>95# percuss.</u>	REFERENCE OR DATUM: Ground Level
START DATE: _0	6/22/95		COMPLETION DATE: 6/22/95
			TOESCRIPTION  Following Clear Lithtelious, cale grains are sensing angularity residences are supported to the control of the c
10		CL 0.3  CL 0.3  O 0/1 CL 13.0  5 380/495 CL 16.0	SILTY CLAY. Brown. Slight Fe oxide staining. Gypsum streaks present. Slightly hard and plastic. Moderately moist to moist. No HC odor. SILTY CLAY. Red brown with grey streaks. Moist to slightly moist crumbly. Plastic with gypsum streaks. SLIGHTLY SANDY SILTY CLAY. Green brown mottling. Fine to v. fine sand present. Very moist to saturated. Slight HC odor. Boring GP-4 backfilled with bentonite and hydrated with tap water. Boring capped with asphalt to match existing pavement.
NOTES:	<u> </u>	<u></u>	

Vapor measurements: TLV/PID measurements. TLV measured using a Bacharach TLV sniffer. PID measurement obtained using a Photovac photoionization detector.

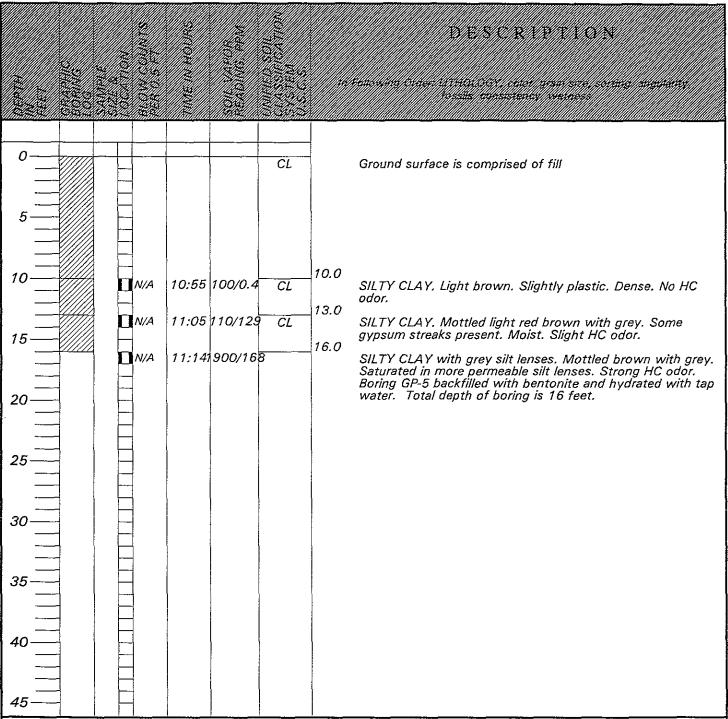


ENVIRONMENTAL AUDIT, INC.

This Boring Log Represents Conditions Only at Time and Location Indicated, Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: FSM DATE: 6/22/95 APPROVED BY:FSM RCE #: 4248

GRAPHIC GEOTECH	HNICAL BORING LOG PAGE: 1 OF 1
CLIENT: Montgomery Ward Auto Service Center	
SITE LOCATION: 7575 Dublin Boulevard, Dublin, Cali	fornia
DRILLING CO: <u>TEG</u>	TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: Direct Push	HOLE DIAMETER: 2"
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	REFERENCE OR DATUM: Ground Level
START DATE: <u>6/22/95</u>	COMPLETION DATE: 6/22/95
	DESCRIPTION



NOTES:

Vapor measurements: TLV/PID. TLV measured using a Bacharach TLV sniffer; PID measurement obtained using a Photovac photoionization detector.

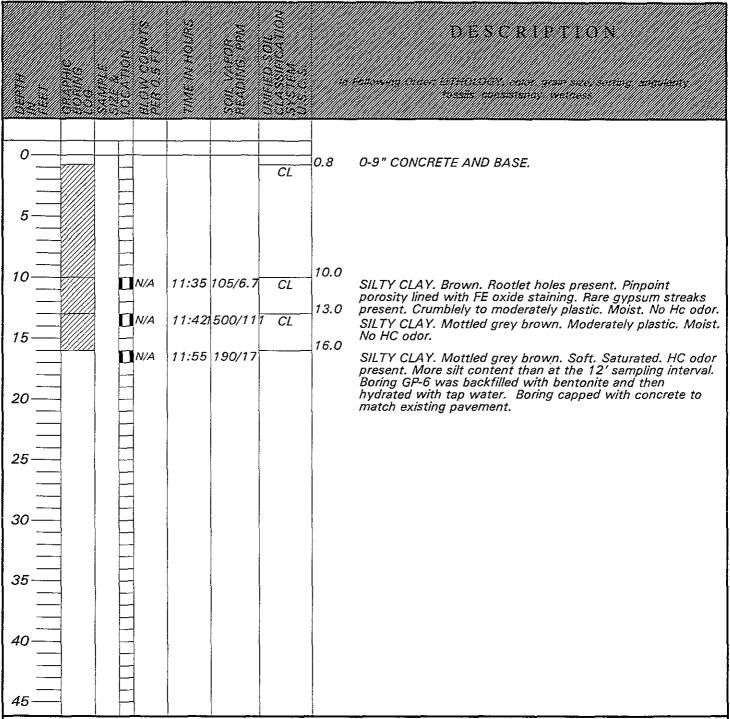


ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: <u>FSM</u> DATE: <u>6/22/95</u> APPROVED BY:<u>FSM</u> RCE #: <u>4248</u>

GRAPHIC GEOTEC	CHNICAL BORING LOG PAGE: 1 OF 1
CLIENT: Montgomery Ward Auto Service Center	PROJECT NO.: 1233 DRILL HOLE: GP-6
SITE LOCATION: 7575 Dublin Boulevard, Dublin, C	alifornia
DRILLING CO: <u>TEG</u>	TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: <u>Direct Push</u>	HOLE DIAMETER: 2"
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	REFERENCE OR DATUM: Ground Level
START DATE: <u>6/22/95</u>	COMPLETION DATE: 6/22/95
	PARK PRINTER PRINTS



NOTES:

Vapor measurements: TLV/PID measurements. TLV measured using a Bacharach TLV sniffer. PID measurements obtained using a Photovac photoionization detector.



ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: <u>FSM</u> DATE: <u>6/22/95</u> \_\_\_\_ APPROVED BY:<u>FSM</u> RCE #: <u>4248</u>

GRAPHIC GEOTECI	HNICAL BORING LOG PAGE: 1 OF 1
CLIENT: Montgomery Ward Auto Service Center	7AUL7AUL7AUL7AUL7AUL
SITE LOCATION: 7575 Dublin Boulevard, Dublin, Cali	
•	TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: Direct Push	· · · · · · · · · · · · · · · · · · ·
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	
	COMPLETION DATE: 6/22/95
PERMIT  PERMIT  SAMPLE   THE SURTION  Fallowing Coner LETHICACTY, onto a principle, scripping augments for some consistency sections:	
0 0.8	0-9" CONCRETE WITH BASE
10	SILTY CLAY. Slightly mottled red brown. Plastic. Dense. Moist. No HC odor.  SILTY CLAY. Mottled brown and grey green with streaks of gypsum. Dense. Moist. HC odor.  SILTY CLAY. Mottled green brown with grey. Moderately plastic. Dense. More silt contest than 12'. Saturated. Boring GP-7 backfilled with bentonite and hydrated with tap water. Boring capped with concrete to match existing pavement.
35————————————————————————————————————	

Vapor measurements: TLV/PID readings. TLV measured using a Bacharach TLV sniffer; PID measurements obtained using a Photovac photoionization detector.



ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: FSM DATE: 6/22/95 APPROVED BY:FSM RCE #: 4248

0.1517 11						HNICAL BORING LOG PAGE: 1 OF 1	
						PROJECT NO.: 1233 DRILL HOLE: GP-8	
SITE LOCATION		<u>Dublin i</u>	<u>Bouleva</u>	ra, Dub	<u>iin, Cai</u>		
DRILLING CO:		TYPE OF RIG: <u>Strataprobe SP-1</u>					
DRILLING METH				HOLE DIAMETER: <u>2"</u>			
		OF DRO	OP: <u>95</u> ;	# percus	REFERENCE OR DATUM: Ground Level		
START DATE: 6/22/95 COMPLETION DATE: 6/22/95							
				CL	0.8	DESCRIPTION  Foresting Prince LETHOLOGY, solice grows size, soliting angularity foresting angularity  O-9" CONCRETE AND BASE.	
10————————————————————————————————————		12:45	110/14.7 800/167 245/80.8	CL	10.0 13.0 16.0	SILTY CLAY. Brown. Streaks of gypsum present. Rootlets present. Dense. Moderately plastic. No HC odor.  SILTY CLAY. Mootled red brown and grey green. Gypsum nodules and streaks present. Moist. Dense. HC odor.  SILTY CLAY. Mottled grey-green and brown. Pinpoint porosity. Some parts more silty other more clayey in interval. Plastic. Very moist to saturated. HC odor.  Boring GP-8 backfilled with bentonite and hydrated with tap water. Boring capped with concrete to match existing pavement. Ground water was measured in well B-10 at 10.3' below ground surface.	

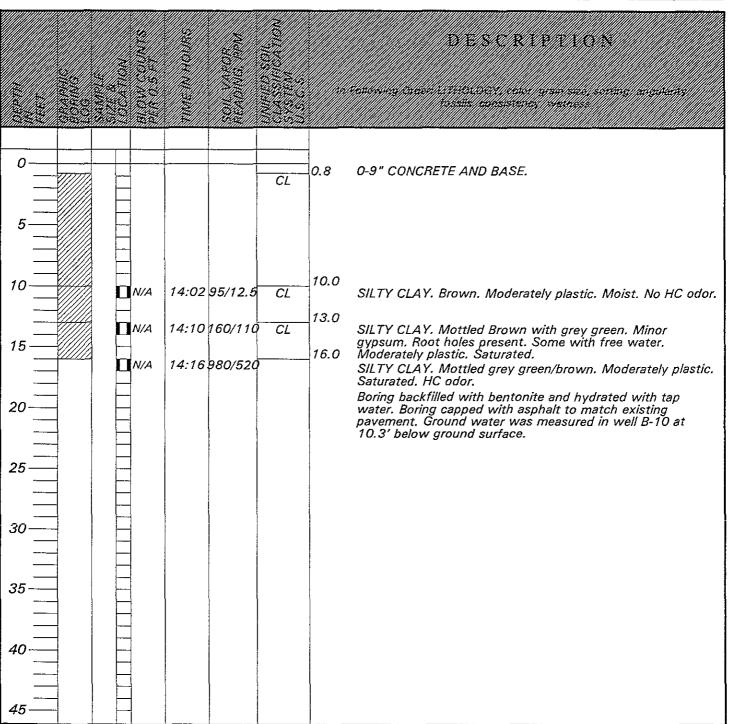


ENVIRONMENTAL AUDIT, INC.

This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: FSM DATE: 6/22/95 APPROVED BY:FSM RCE #: 4248

	GRAPHIC GEOTECH	INICAL BURING LUG PAGE: 1 OF 1
ı	CLIENT: Montgomery Ward Auto Service Center	PROJECT NO.: 1233 DRILL HOLE: GP-9
	SITE LOCATION: 7575 Dublin Boulevard, Dublin, Calif.	ornia
ĺ	DRILLING CO: <u>TEG</u>	TYPE OF RIG: <u>Strataprobe SP-1</u>
•	DRILLING METHOD/EQUIPMENT: Direct Push	HOLE DIAMETER: 2"
l	DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	REFERENCE OR DATUM: Ground Level
	START DATE: <u>6/22/95</u>	COMPLETION DATE: 6/22/95



NOTES:

Vapor measurements: TLV/PID reading. TLV measured using a Bacharach TLV sniffer. PID measurement obtained using a Photovac photoionization detector.

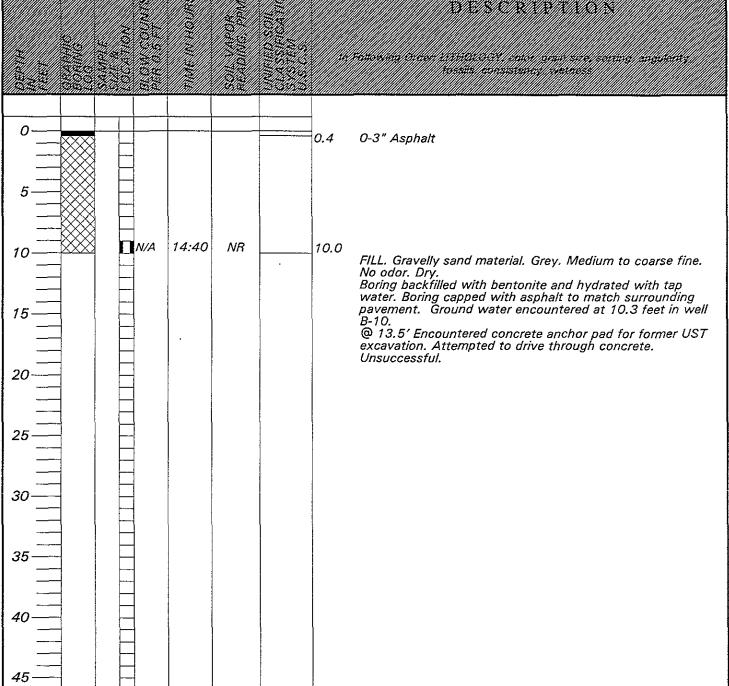


ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: <u>FSM</u> DATE: <u>6/22/95</u> \_\_\_ APPROVED BY:<u>FSM</u> RCE #: 4248

CLIENT: Montgomery Ward Auto Service Center	PROJECT NO.: 1233 DRILL HOLE: GP-10
SITE LOCATION: 7575 Dublin Boulevard, Dublin, Ca	alifornia
DRILLING CO: TEG	TYPE OF RIG: Strataprobe SP-1
DRILLING METHOD/EQUIPMENT: <u>Direct Push</u>	HOLE DIAMETER: <u>2"</u>
DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss.	REFERENCE OR DATUM: Ground Level
START DATE: <u>6/22/95</u>	COMPLETION DATE: 6/22/95
	DESCRIPTION
	AT ATTOCK CO. E. C. A. A. A. C. C. C.
	CHONORY CORRECT LICENCES OF CHILD WHITE STREET, MADERITY



NOTES:

Vapor measurements: TLV/PID readings. TLV measured using a Bacharach TLV Sniffer. PID measurements obtained using a Photovac photoionization detector.



ENVIRONMENTAL AUDIT, INC.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.

LOGGED BY: FSM DATE: 6/22/95 APPROVED BY:FSM RCE #: 4248

APPENDIX B:

**Chain-of-Custody Records** 

Pleasuring, Environmental Analyses and Heatendus Substance Management and Remodiation  1000 ORTEGA MINK SUITE A \$2 (714) 632 - 8754  PROJECTINO. PROJECT MANE  (237) ROBERT MANE  (238) ROBERT MANE  (238) ROBERT MANE  (238) ROBERT MANE  (237) ROBERT MANE  (238) ROBERT MANE  (238) ROBERT MANE  (237) ROBERT MANE  (238)	FA	1			والتحديد		L AUDI				<b>≖</b> ®		(	Cho	aiı	П	of	C	US	bot	y Re	)CO	rd
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APPENDIX C:

**Laboratory Reports** 

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95

Collected By: Frank Muramoto

Date Received: 6/22/95

Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

## ANALYTICAL RESULTS

#### Parameter

#### Observation or Results

Sample #	GP-1 @ 9.5-10	GP-1 @12.5-13	GP 1 @ 15.5-16
Laboratory #	95-062-1	95-062-2	95-062-3
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	1040 ppb (ug/Kg)	ND < 5 ppb
Toluene	439 ppb (ug/Kg)	156 ppb (ug/Kg)	ND < 5 ppb
O,M,P Xylenes	607 ppb (ug/kg)	5410 ppb (ug/Kg)	162 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	59 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: N. Leung, R. Mankarious

Approved: DW

# ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95

Collected By: Frank Muramoto

Date Received: 6/22/95

Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

#### Parameter

## Observation or Results

Sample #	GP-2 @ 9.5-10	GP-2 @ 12.5-13	GP 2 @ 15.5-16
Laboratory #	95-062-4	95-062-5	95-062-6
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Toluene	435 ppb (ug/Kg)	111 ppb (ug/Kg)	389 ppb(ug/Kg)
O,M,P Xylenes	579 ppb (ug/kg)	1040 ppb (ug/Kg)	578 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	10.5 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: N. Leung, R. Mankarious

Approved: Dw

# ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

### Parameter

### Observation or Results

Sample #	GP-3 @ 9.5-10	GP-3 @ 12.5-13	GP 3 @ 15.5-16
Laboratory #	95-062-7	95-062-8	95-062-9
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Toluene	482 ppb (ug/Kg)	713 ppb (ug/Kg)	978 ppb(ug/Kg)
O,M,P Xylenes	629 ppb (ug/kg)	1350 ppb (ug/Kg)	1250 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	36.7 ppm (mg/Kg)	11.5 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: N. Leung, R. Mankarious

Approved:

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95

Collected By: Frank Muramoto

Date Received: 6/22/95

Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

## ANALYTICAL RESULTS

## Parameter

### Observation or Results

Sample #	GP-4 @ 9.5-10	GP-4 @ 12.5-13	GP 4 @ 15.5-16
Laboratory #	95-062-10	95-062-11	95-062-12
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	480 ppb (ug/Kg)	ND < 5 ppb
Toluene	444 ppb (ug/Kg)	1400 ppb (ug/Kg)	456 ppb(ug/Kg)
O,M,P Xylenes	608 ppb (ug/kg)	1970 ppb (ug/Kg)	559 ppb (ug/Kg)
TPH (Gas)	14.3 ppm (mg/Kg)	21.8 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: R. Mankarious

Approved: Dw

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

## ANALYTICAL RESULTS

### Parameter

#### Observation or Results

Sample #	GP-5 @ 9.5-10	GP-5 @ 12.5-13	GP 5 @ 15.5-16
Laboratory #	95-062-13	95-062-14	95-062-15
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Toluene	437 ppb (ug/Kg)	734 ppb (ug/Kg)	663 ppb(ug/Kg)
O,M,P Xylenes	562 ppb (ug/kg)	1050 ppb (ug/Kg)	923 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	10.6 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: R. Mankarious

Approved: D.W

# ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

#### Parameter

## Observation or Results

Sample #	GP-6 @ 9.5-10	GP-6 @ 12.5-13	GP 6 @ 15.5-16
Laboratory #	95-062-16	95-062-17	95-062-18
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	492 ppb (ug/Kg)	ND < 5 ppb
Toluene	445 ppb (ug/Kg)	79.0 ppb (ug/Kg)	392 ppb(ug/Kg)
O,M,P Xylenes	612 ppb (ug/kg)	1980 ppb (ug/Kg)	617 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	19.8 ppm (mg/Kg)	18.0 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: N. Leung, R. Mankarious

Approved: Dw

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

#### Parameter

#### Observation or Results

Sample #	GP-7 @ 9.5-10	GP-7 @ 12.5-13	GP 7 @ 15.5-16
Laboratory #	95-062-19	95-062-20	95-062-21
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	423 ppb (ug/Kg)	681 ppb (ug/Kg)	338 ppb (ug/Kg)
Toluene	406 ppb (ug/Kg)	837 ppb (ug/Kg)	428 ppb(ug/Kg)
O,M,P Xylenes	1580 ppb (ug/kg)	4260 ppb (ug/Kg)	1450 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	35.5 ppm (mg/Kg)	12.9 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: L. Leung, R. Mankarious

Approved:

# ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95

Collected By: Frank Muramoto

Date Received: 6/22/95

Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

#### Parameter

## Observation or Results

Sample #	GP-8 @ 9.5-10	GP-8 @ 12.5-13	GP 8 @ 15.5-16
Laboratory #	95-062-22	95-062-23	95-062-24
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	236 ppb (ug/Kg)	ND < 5 ppb
Toluene	553 ppb (ug/Kg)	460 ppb (ug/Kg)	397 ppb(ug/Kg)
O,M,P Xylenes	876 ppb (ug/kg)	1660 ppb (ug/Kg)	619 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	15.6 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: L. Leung, R. Mankarious

Approved: D.J

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

## ANALYTICAL RESULTS

#### Parameter

### Observation or Results

Sample #	GP-9 @ 9.5-10	GP-9 @ 12.5-13	GP 9 @ 15.5-16
Laboratory #	95-062-25	95-062-26	95-062-27
Benzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Ethylbenzene	ND < 5 ppb	ND < 5 ppb	ND < 5 ppb
Toluene	389 ppb (ug/Kg)	962 ppb (ug/Kg)	444 ppb(ug/Kg)
O,M,P Xylenes	616 ppb (ug/kg)	1790 ppb (ug/Kg)	722 ppb (ug/Kg)
TPH (Gas)	< 10 ppm (mg/Kg)	44.9 ppm (mg/Kg)	< 10 ppm (mg/Kg)

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: L. Leung, R. Mankarious

Approved: இய்

## ANALYTICAL REQUEST

Certification No. 1944

Laboratory No: 95-062

Sample Identification: Montgomery Word Dublin CA

Analysis Requested By: Frank Muramoto

Date Collected: 6/22/95 Collected By: Frank Muramoto

Date Received: 6/22/95 Received By: N. Leung

Analysis Requested: Benzene, Ethylbenzene, Toluene, Xylenes, TPH (Gas).

Background Information: Twenty eight soil samples submitted

for analysis.

### ANALYTICAL RESULTS

#### Parameter

### Observation or Results

Sample #	GP-10 @ 9.5-10	
Laboratory #	95-062-28	
Benzene	ND < 5 ppb	
Ethylbenzene	ND < 5 ppb	
Toluene	442 ppb (ug/Kg)	
O,M,P Xylenes	659 ppb (ug/kg)	
TPH (Gas)	< 10 ppm (mg/Kg)	· · · · · · · · · · · · · · · · · · ·

Conclusion:

Date Analysis Completed: 06/15/95 Chemist: R. Mankarious

Approved: DV